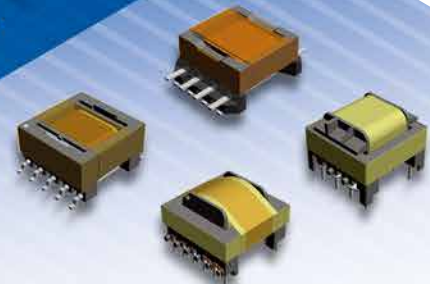
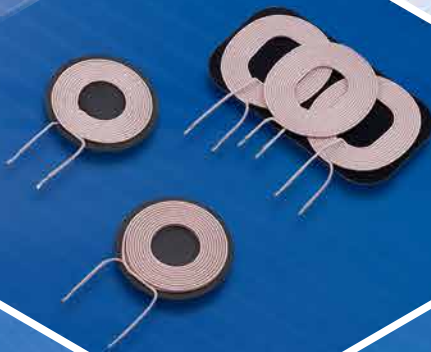


POWER / RF and EMI INDUCTORS and COILS



WEB: WWW.3LCOIL.COM



3L Profile

I. General

- 1) Name of company : 3L Electronic Corp.
2) Address: 3F, No.192, Sec. 2, Zhongxing Rd. Xindian Dist., New Taipei City 231037 Taiwan
3) Telephone: +886 (2) 86659999 4) Fax: +886 (2) 86659900
5) Chairman: Mr. Weiyang Liu 6) GM : Mr. Andy Shi
7) Established on: 1977 8) Paid up Capital: USD \$ 15,114,000
9) Revenue: USD \$ 57,870,398

II. Number of employees & Building Floorage

- 1) Our Employees (in total):
 To Management: 10 Design/F&E/R&D: 77 Production Techniques/Lean Center: 152 MFG: 1097
 Quality Control.: 78 Procurement: 14 PC/Warehouse: 53 Sales: 59
 Finance/Accounting: 28 HR and Education: 12 Logistics/Power Supply: 54 Total: 1634
- 2) Building Floorage:
 Taiwan Headquarters: 1100 M² Zhong Shan Factory I: 27760 M²
 Nanning New Factory: 65,000 M² Zhong Shan Factory II: 40000 M²

III. Standards

ISO 9001:2015: CN05/31187.01

IATF 16949:2016: IATF 0380132

IV. Milestones:

- | | |
|------|--|
| 1977 | Established 3L Electronic Corp. in Taipei, Taiwan by Dave Liou and Y.T. Liu. |
| 1989 | Established 3L's First Factory in China. |
| 1991 | Established 3L Electronic Corp. (U.S.A)(3LU) as North American warehouse and logistic controlling center. Incorporated G-TEP, meanwhile, and formed 3L Global Co. (3LG) for handling North American business. |
| 2000 | ISO 9001 certificated. |
| 2002 | Established 3L Electronic (Zhong Shan) Corp. (3LF).. |
| 2003 | Established 3L Electronic Corp. Su Zhou Branch (3LS). |
| 2005 | Awarded ISO 9001:2000 ISO14000:2004 and SGS GPMS. Fully complied RoHS requirement. Award China A Class Enterprise Certificate. Finished SDR, Planar Xfmrs, Flat Wire High Current Power Chokes Automation lines. |
| 2006 | Built up a new plant 40,000 M ² , Henry Electronic. Corp. (3LQ), for expanding Customized Products manufacturing. |
| 2007 | Established 3L Electronic Group Holdings Ltd and its subsidiary holding companies. Established 3L Electronic International Trading Ltd for overseas business. Established Henry Electronic Corp., a 40,000 M ² new site, and separated SMT & DIP types manufacturing plants. |
| 2008 | Got Sony and ASUS Green Partner certificated; Get QC080000 Certificate. Established Sanle Electronic Co. Ltd. for China domestic Sales. |
| 2009 | Completed mass production preparation for Iron Powders and UPI/DPI Molded Inductor; Approved by Texas Instrument and Flextronics. Re-issued company vision & re-defined 3L: (Improvement) Lasting, (Production) Leaning, (Customer) Leading. |
| 2010 | Established Equipment Center and enhanced ability of self-produced device like robot arm. Completed the lean production for SMTBW, NL, SMTDR, EE, FS, UPI series and raised 30% efficiency and decreased 50% defects and inventory. Established Inland China factories for labor intensive products & cost saving. |
| 2011 | Technical cooperation with Texas Instruments for developing molded power module / Promote E-learning and cloud technology developing. |
| 2013 | Develops Word class miniature Power Choke 2520 & 2016 series with lead-frame structure. |
| 2016 | Achieve Whole-Processes Automation on PK, FC, SDR, SMTDR, SMDV, BRI lean manufacturing. |
| 2017 | Expanding the Molded Power Inductor Family into 2: HPI Series will extend the sizes to bigger size as HPI 03/04/05/06 and be qualified for AEC-Q 200, for Automobile business; @ the same time, PHP Series will expand the size to a even Lower Profile and smaller size in order to achieve Consumer Electronic requirements. |
| 2020 | 1. 3L Electronic (Guangxi) Co., Ltd goes into full operation.2. Twelve automatic production lines of PHP series product are built up for mass production. |
| 2021 | 1. Further expand full-automatic production line of wireless charging coil, automotive transformer and CMC (Common Mode Choke). The wireless charging coil is take yearly increasing proportion in market and it's marching into new energy automotive market. 2. LHP series is officially developed. |

Product Index

Power Inductor – SMT type



LHP

201610, 201612
252010, 252012
322512, 322520

page: 1



PHP

201610, 201612
252010, 252012
322512, 322520

page: 2



HPI

201610(P), 201612(P)
252010(P), 252012(P)
0310, 0312, 0315, 0302
0410, 0412, 0415, 0402
0510, 0512, 0515, 0518, 0502
0610, 0612, 0615, 0618, 0602

page: 3



HPIF

0412, 0402
0518
0612, 0618

page: 4



UPIB

0603, 0804
1004
1205, 1265
1704, 1707
2213

page: 5



UPIF

0603, 0804
1004, 1005
1205, 1265
1704, 1707
2213

page: 6



BDR

2D12, 2D15
3D12, 3D15, 3D18

page: 7



BDE

2D10, 2D12, 2D15
3D12, 3D15, 3D18

page: 8



BRI

2D12, 2D15, 2D18
3D12, 3D15, 3D18

page: 9



SNR

3015
4018, 4030, 5040
6045, 8040

page: 10

Product Index

Power Inductor – SMT type



SMDV(P)

2520, 3225, 4532, 5650

page: 11



SMTDR

32P
32, 43, 53, 54
75, 104, 105, 107,

page: 12



SMTSDR

322515, 321618C
322520C, 453226C
575047C

page: 13



SMTDRH

0520, 0530/L
0630, 0635

page: 14



SMTDRH

103R, 104R, 105R

page: 15



SMTDRRI

4D18, 4D28, 5D18
5D28, 6D28, 6D38

page: 16



SMTDRRI

62B, 64B, 73, 74
124, 125, 127
129

page: 17



SMTDRRI

74P, 125P, 127P

page: 18



SMTDRS

0628, 0728, 0730
0732, 0745, 1045
1255, 1265, 1275

page: 19



SMTBW

104, 105, 125
134

page: 20

Product Index

Power Inductor – SMT type



SMTER

63, 64, 65

page: 21



SMTPQ

page: 22

Power Inductor – DIP type



EC

22, 24, 36
38, 46, 0410

page: 23



FC

0205, 0310, 0415
0520, 0630

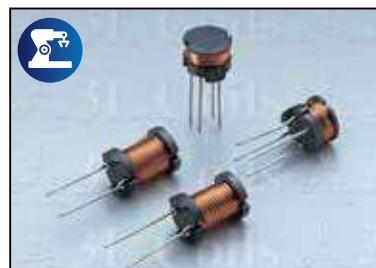
page: 24



PK

0406, 0608, 0707
0807, 0810, 1010
1012, 1018, 1213

page: 25



PKS

0605, 0606, 0805,
0807, 0809

page: 26



MF

0709, 0809, 1112

page: 27



FS

0606, 0807, 4W1008
4W1010, 1012, 1215, 1618

page: 28

Product Index

RF Coil type



SMDCHGR

0402, 0603, 0805
1008

page: 29

EMI/EMC type



SMDWCM

2012, 3216

page: 30



SMTLF

3922P, 632

page: 31



SMB-A

100505, 160808,
201209

SMB-P

160808, 201209,

page: 32



WBRH

35308~35908

WBRID

237555, 237573

WBR6H

1.5~3T

page: 33

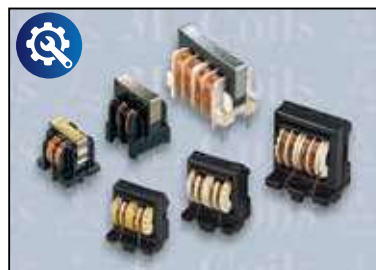


LFV

129, 2208, 2513, 3113, 3715

LFC/LFH/ LFLH/LFLV

page: 34



ET 24, 28, 35

LFU 9.8, 9.8H, 10, 16

LFUT 20

page: 35

Product Index

Toroids type



TC
TBC
TBV
TBH

page: 36

Other Special type



SMTER15/19

page: 37



WPT

page: 38



SMTEE

EE4.4, EE4.6
EE5.0, EE8.3

page: 39



EE/EI/RM

page: 40



LHP 2016/2520/3225 SERIES

HIGH POWER INDUCTOR

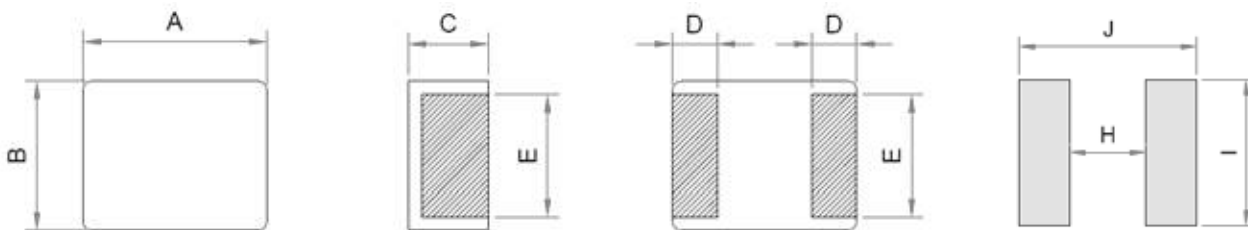
Applications:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions

Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
LHP201610P	2.0±0.2	1.6±0.2	0.8±0.2	0.5±0.3	1.4±0.2	0.7	1.8	2.3
LHP201612P	2.0±0.2	1.6±0.2	1.0±0.2	0.5±0.3	1.4±0.2	0.7	1.8	2.3
LHP252010P	2.5±0.2	2.0±0.2	0.8±0.2	0.6±0.3	1.8±0.2	1.2	2.3	2.8
LHP252012P	2.5±0.2	2.0±0.2	1.0±0.2	0.6±0.3	1.8±0.2	1.2	2.3	2.8
LHP322512	3.2±0.2	2.5±0.2	1.0±0.2	0.6±0.3	2.3±0.2	1.7	2.8	3.5
LHP322520	3.2±0.2	2.5±0.2	1.8±0.2	0.6±0.3	2.3±0.2	1.7	2.8	3.5

Features :

- High performance (I sat) realized by metal dust core.
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

LHP 252010P – 1R0 M

(1) (2) (3) (4)

(1) Series : **L**-shaped Plating Terminal

Hot Press power Inductor

(2) Dimensions : **252010** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (I_{sat}) : The current will cause L₀ to drop approximately 30% typical
- Temperature Rise Current (I_{rms}) : The current will cause the coil temperature rise approximately ΔT=40°C
- Operating Temperature : -55°C to 125°C

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



LHP2016/2520/3225 series

Part No.	Inductance L(μ H)	Tolerance ($\pm$ %)	DCR(m Ω)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
LHP201610P-R24M	0.24	20	15	19	7.5	6.5	6.5	5.5
LHP201610P-R47M	0.47	20	25	31	5.4	4.8	4.5	4.1
LHP201610P-1R0M	1.0	20	53	65	4.0	3.6	3.2	2.6
LHP201612P-R47M	0.47	20	23	28	5.8	5.1	4.5	4.2
LHP201612P-1R0M	1.0	20	41	48	4.0	3.3	3.2	2.8
LHP201612P-2R2M	2.2	20	90	110	2.6	2.2	1.9	1.6
LHP252010P-1R5M	1.5	20	56	68	3.5	3.0	2.9	2.5
LHP252010P-2R2M	2.2	20	82	97	3.1	2.6	2.3	2.1
LHP252010P-3R3M	3.3	20	140	168	2.5	2.1	1.8	1.6
LHP252012P-R47M	0.47	20	18	22	7.8	7.0	5.0	4.6
LHP252012P-1R5M	1.5	20	51	58	4.2	3.6	3.3	3.0
LHP252012P-2R2M	2.2	20	70	82	3.4	3.0	2.9	2.6
LHP252012P-3R3M	3.3	20	120	140	2.8	2.3	2.0	1.6
LHP322512-R47M	0.47	20	17	22	9.0	8.0	5.8	5.2
LHP322512-1R0M	1.0	20	34	42	6.3	5.8	4.2	3.8
LHP322512-4R7M	4.7	20	140	157	2.8	2.4	1.9	1.6
LHP322512-6R8M	6.8	20	220	276	2.2	1.9	1.5	1.2
LHP322520-1R0M	1.0	20	20	24	7.6	6.5	4.5	4.0
LHP322520-2R2M	2.2	20	33	40	4.6	4.0	3.0	2.6

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C .

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

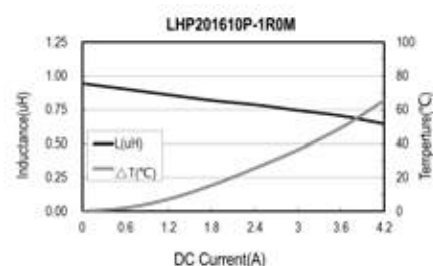
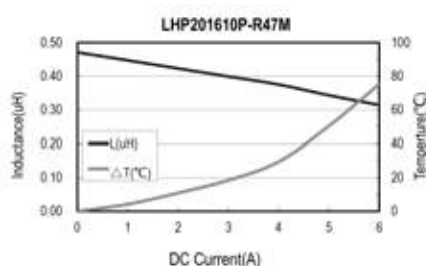
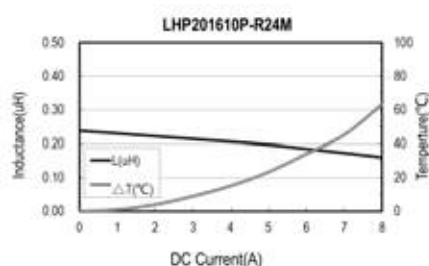
I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

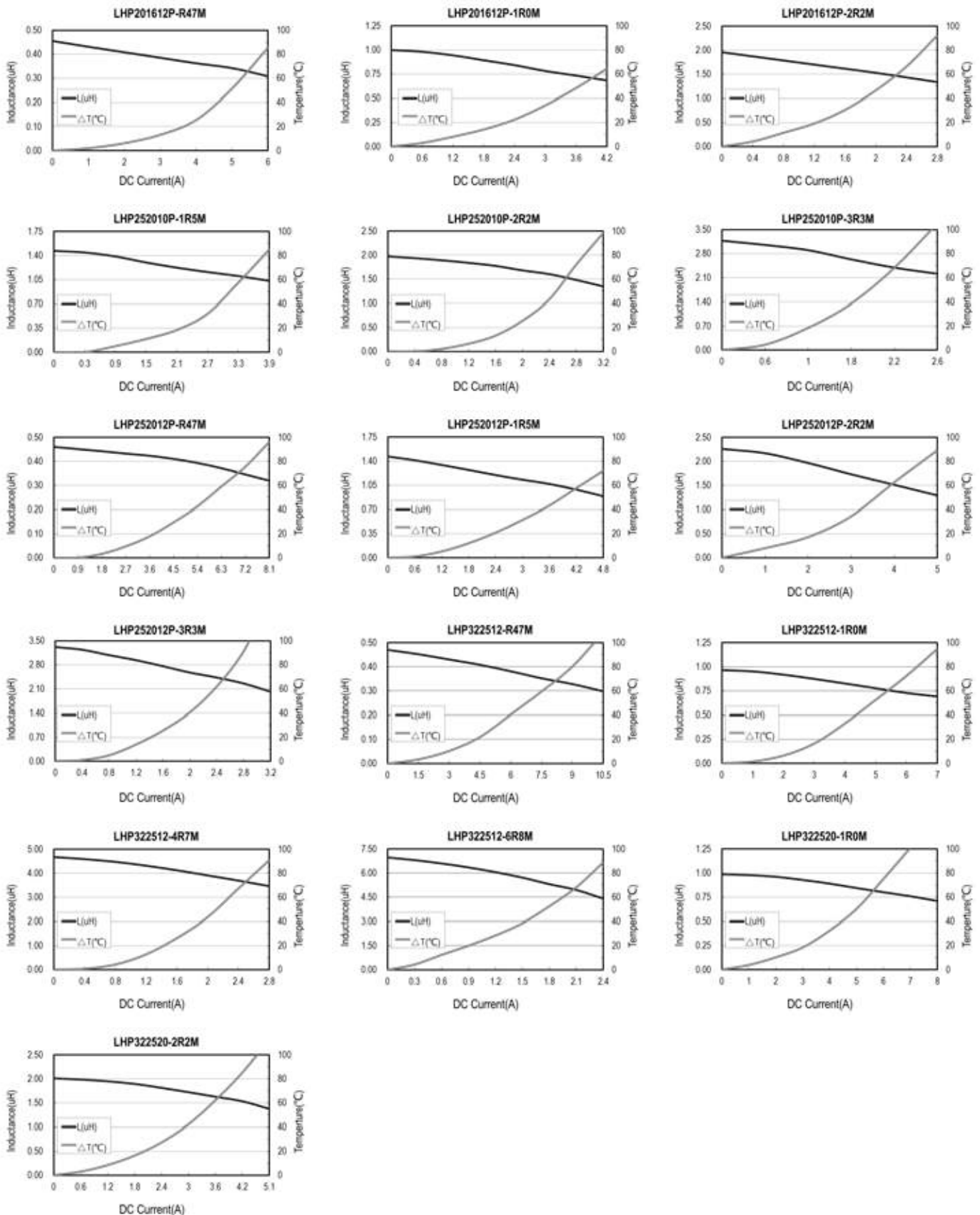
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :





Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

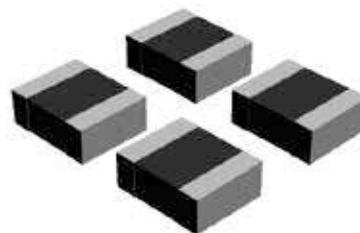


PHP 2016/2520/3225 SERIES

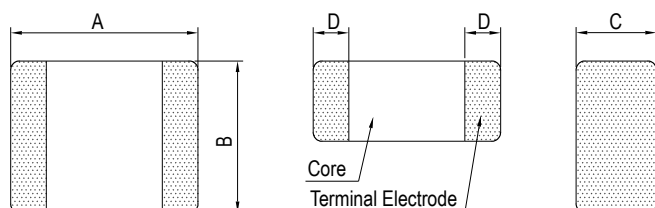
HIGH POWER INDUCTOR

Applications:

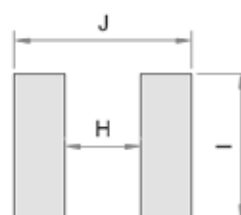
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	H	I	J
PHP201610P	2.0±0.3	1.6±0.3	0.8±0.2	0.5±0.3	0.7	1.8	2.3
PHP201612P	2.0±0.3	1.6±0.3	1.0±0.2	0.5±0.3	0.7	1.8	2.3
PHP252010P	2.5±0.3	2.0±0.3	0.8±0.2	0.6±0.3	1.2	2.3	2.8
PHP252012P	2.5±0.3	2.0±0.3	1.0±0.2	0.6±0.3	1.2	2.3	2.8
PHP322512	3.2±0.3	2.5±0.3	1.0±0.2	0.6±0.3	1.7	2.8	3.5
PHP322520	3.2±0.3	2.5±0.3	1.8±0.2	0.6±0.3	1.7	2.8	3.5

Features :

- High performance (I sat) realized by metal dust core.
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

PHP 201610P – 1R0 M

(1) (2) (3) (4)

(1) Series : Paste termination structure

Hot Press power inductors.

(2) Dimensions : **201610P** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical
- Temperature Rise Current (I rms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$
- Operating Temperature : -55°C to 125°C

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



● **PHP2016/2520/3225 series**

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
PHP201610P-R47M	0.47	20	25	32	5.4	4.8	4.4	4.0
PHP201610P-1R0M	1.0	20	54	65	3.8	3.6	3.2	2.8
PHP201610P-1R5M	1.5	20	84	91	3.0	2.6	2.1	1.8
PHP201610P-2R2M	2.2	20	125	140	2.8	2.4	1.9	1.6
PHP201610P-3R3M	3.3	20	205	235	2.1	1.8	1.5	1.3
PHP201612P-R47M	0.47	20	22	26	5.8	5.1	4.5	4.2
PHP201612P-1R0M	1.0	20	41	48	4.0	3.5	3.2	2.8
PHP201612P-1R5M	1.5	20	63	72	3.2	2.8	2.5	2.2
PHP201612P-2R2M	2.2	20	95	116	2.8	2.4	1.9	1.6
PHP201612P-3R3M	3.3	20	175	210	2.2	1.9	1.4	1.2
PHP252010P-R47M	0.47	20	21	27	6.5	5.6	5.2	4.6
PHP252010P-1R0M	1.0	20	38	48	4.7	4.3	4.2	4.0
PHP252010P-1R5M	1.5	20	62	72	3.5	3.0	2.9	2.5
PHP252010P-2R2M	2.2	20	82	97	3.1	2.6	2.3	2.1
PHP252010P-3R3M	3.3	20	140	168	2.5	2.1	1.8	1.6
PHP252010P-4R7M	4.7	20	215	240	2.2	1.8	1.6	1.4
PHP252012P-R24M	0.24	20	11	15	9.0	8.0	7.2	6.8
PHP252012P-R47M	0.47	20	18	22	7.8	7.0	5.0	4.6
PHP252012P-1R0M	1.0	20	35	40	5.5	4.7	4.2	3.8
PHP252012P-1R5M	1.5	20	51	58	4.2	3.6	3.3	3.0
PHP252012P-2R2M	2.2	20	70	82	3.4	3.0	2.9	2.6
PHP252012P-3R3M	3.3	20	120	135	2.8	2.3	2.0	1.6
PHP252012P-4R7M	4.7	20	150	180	2.0	1.8	1.5	1.2
PHP322512-R47M	0.47	20	17	22	9.0	8.0	5.8	5.2
PHP322512-1R0M	1.0	20	34	42	6.3	5.8	4.2	3.8
PHP322512-1R5M	1.5	20	40	48	4.8	4.2	3.7	3.2
PHP322512-2R2M	2.2	20	58	66	4.0	3.6	2.9	2.6
PHP322512-3R3M	3.3	20	96	108	3.0	2.6	2.2	2.0
PHP322512-4R7M	4.7	20	140	157	2.8	2.4	1.9	1.6
PHP322512-6R8M	6.8	20	220	276	2.2	1.9	1.5	1.2
PHP322520-1R0M	1.0	20	20	24	7.6	6.5	4.5	4.0
PHP322520-1R5M	1.5	20	30	35	6.0	5.2	3.5	3.1
PHP322520-2R2M	2.2	20	33	40	4.6	4.0	3.0	2.6
PHP322520-3R3M	3.3	20	50	65	4.2	3.6	2.4	2.1
PHP322520-4R7M	4.7	20	86	98	3.4	2.9	2.2	1.9

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

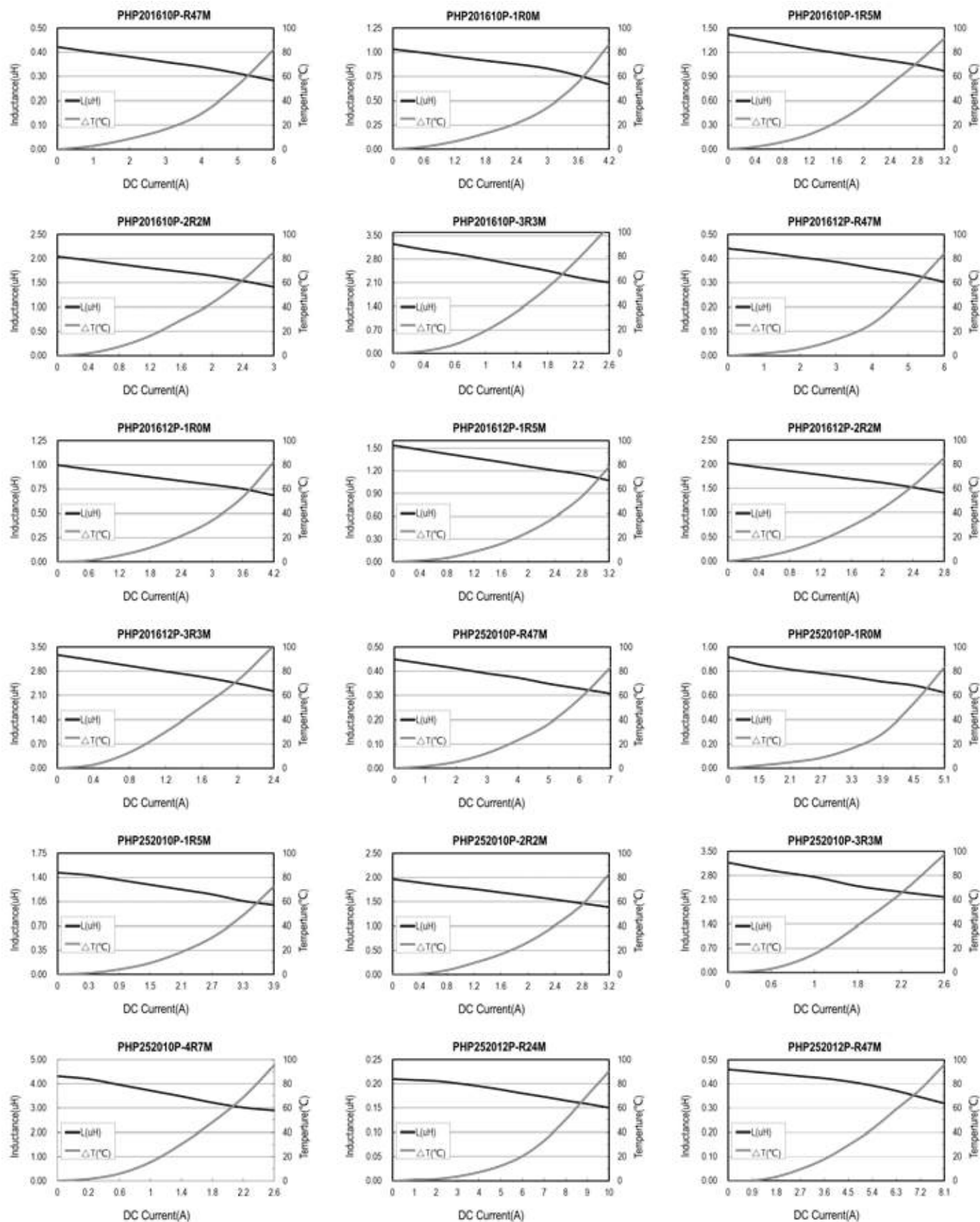
I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

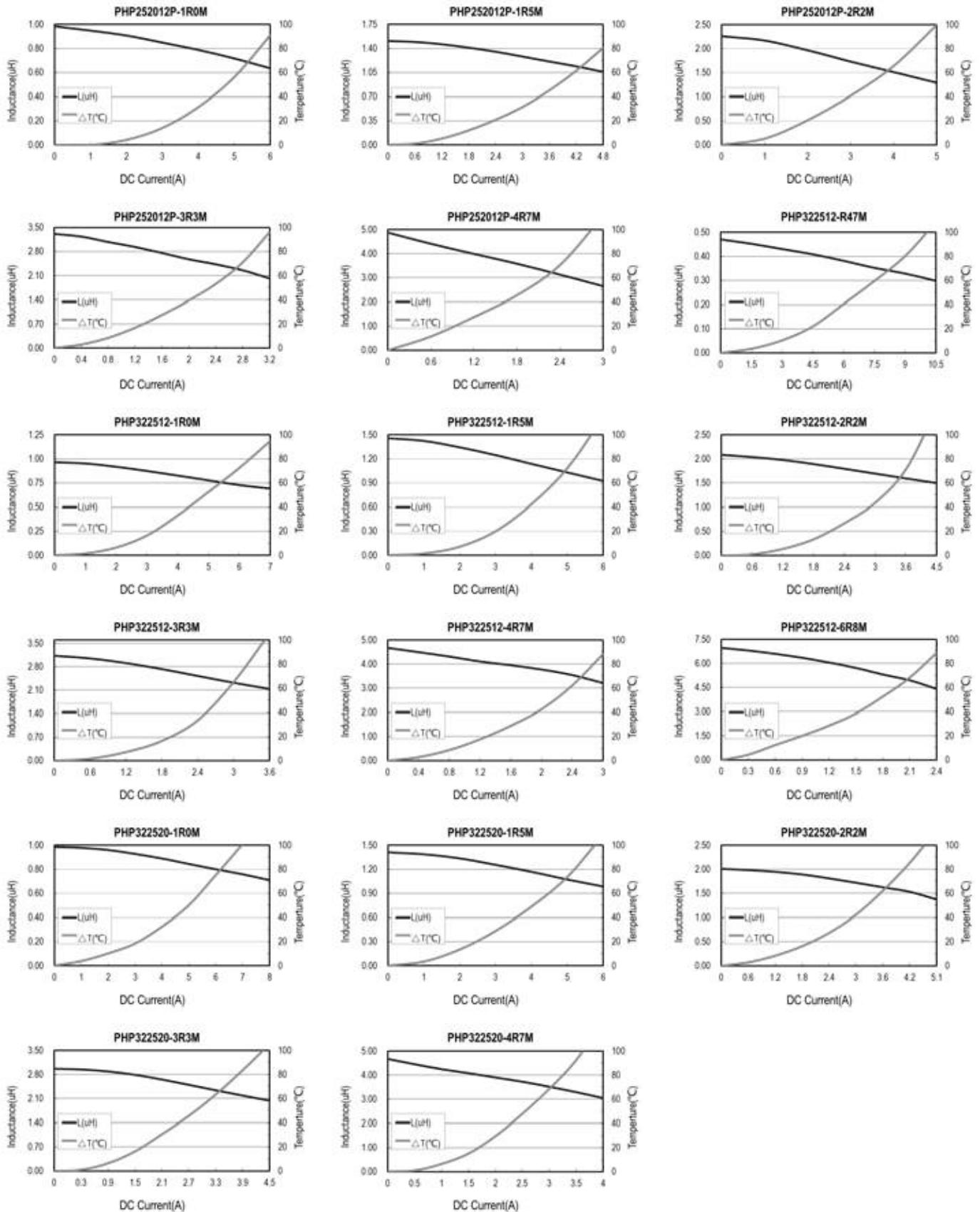


Typical performance curves :





Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



HPI 2016/2520 SERIES

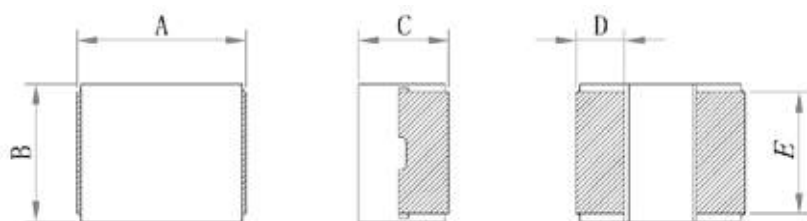
HIGH POWER INDUCTOR

Applications:

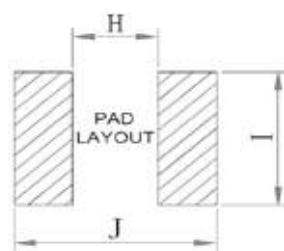
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
HPI201610	2.0±0.2	1.6±0.2	1.0 Max	0.5±0.2	1.44	0.9	1.6	2.3
HPI201612	2.0±0.2	1.6±0.2	1.2 Max	0.5±0.2	1.44	0.9	1.6	2.3
HPI252010	2.5±0.2	2.0±0.2	1.0 Max	0.6±0.2	1.84	1.2	2.0	2.8
HPI252012	2.5±0.2	2.0±0.2	1.2 Max	0.6±0.2	1.84	1.2	2.0	2.8

Features :

- High performance (I sat) realized by metal dust core.
- Low profile: 2.0mm x 1.6mm x 1.0mm
2.0mm x 1.6mm x 1.2mm
2.5mm x 2.0mm x 1.0mm
2.5mm x 2.0mm x 1.2mm
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

HPI 201610 – 1R0 M

(1) (2) (3) (4)

- (1) Series : **H**igh **P**ower **I**nductors.
- (2) Dimensions : **201610** is size.
- (3) Inductance: **1R0** for 1.0uH.
- (4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical
- Temperature Rise Current (I rms) : The current will cause the coil temperature rise approximately $\Delta T=40^{\circ}\text{C}$
- Operating Temperature : -55°C to 125°C

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



● **HPI2016/2520 series**

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPI201610-R24M	0.24	20	20.0	24.0	4.8	4.3	4.0	3.5
HPI201610-R33M	0.33	20	29.0	36.0	4.2	3.7	3.4	3.0
HPI201610-R47M	0.47	20	36.0	46.0	3.56	3.2	2.7	2.43
HPI201610-R68M	0.68	20	55.0	66.0	3.2	2.9	2.4	2.2
HPI201610-1R0M	1.0	20	63.0	78.0	2.7	2.2	2.1	1.9
HPI201610-1R5M	1.5	20	115	137	2.2	2.0	1.8	1.6
HPI201610-2R2M	2.2	20	174	197	1.9	1.6	1.6	1.4
HPI201612-R24M	0.24	20	17.0	21.0	5.3	4.8	4.5	4.0
HPI201612-R33M	0.33	20	27.0	33.0	4.6	4.0	3.9	3.5
HPI201612-R47M	0.47	20	30.0	36.0	3.9	3.5	3.5	3.1
HPI201612-R68M	0.68	20	46.0	55.0	3.5	3.0	2.8	2.6
HPI201612-1R0M	1.0	20	60.0	72.0	2.9	2.5	2.4	2.2
HPI201612-1R5M	1.5	20	86.0	112	2.4	2.2	1.9	1.7
HPI201612-2R2M	2.2	20	146	186	2.0	1.65	1.5	1.35
HPI252010-R22M	0.22	20	15.0	18.0	6.6	6.0	5.8	5.22
HPI252010-R33M	0.33	20	18.0	26.0	5.3	4.77	4.4	4.0
HPI252010-R47M	0.47	20	25.0	41.0	4.5	4.05	3.5	3.1
HPI252010-R68M	0.68	20	40.0	48.0	4.3	3.6	3.3	3.0
HPI252010-1R0M	1.0	20	49.0	65.0	3.55	3.2	2.8	2.52
HPI252010-1R5M	1.5	20	76.0	95.0	2.9	2.4	2.2	1.98
HPI252010-2R2M	2.2	20	110	121	2.4	2.1	1.8	1.62
HPI252012-R22M	0.22	20	12.0	15.0	8.5	7.0	7.3	6.2
HPI252012-R33M	0.33	20	15.0	17.0	5.8	5.22	5.5	4.95
HPI252012-R47M	0.47	20	23.0	28.0	5.0	4.5	4.5	4.0
HPI252012-R68M	0.68	20	34.0	40.0	4.3	3.7	3.8	3.3
HPI252012-1R0M	1.0	20	42.0	55.0	3.8	3.3	3.1	2.7
HPI252012-1R5M	1.5	20	61.0	70.0	2.9	2.61	2.7	2.43
HPI252012-2R2M	2.2	20	92.0	105	2.5	2.2	2.3	2.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

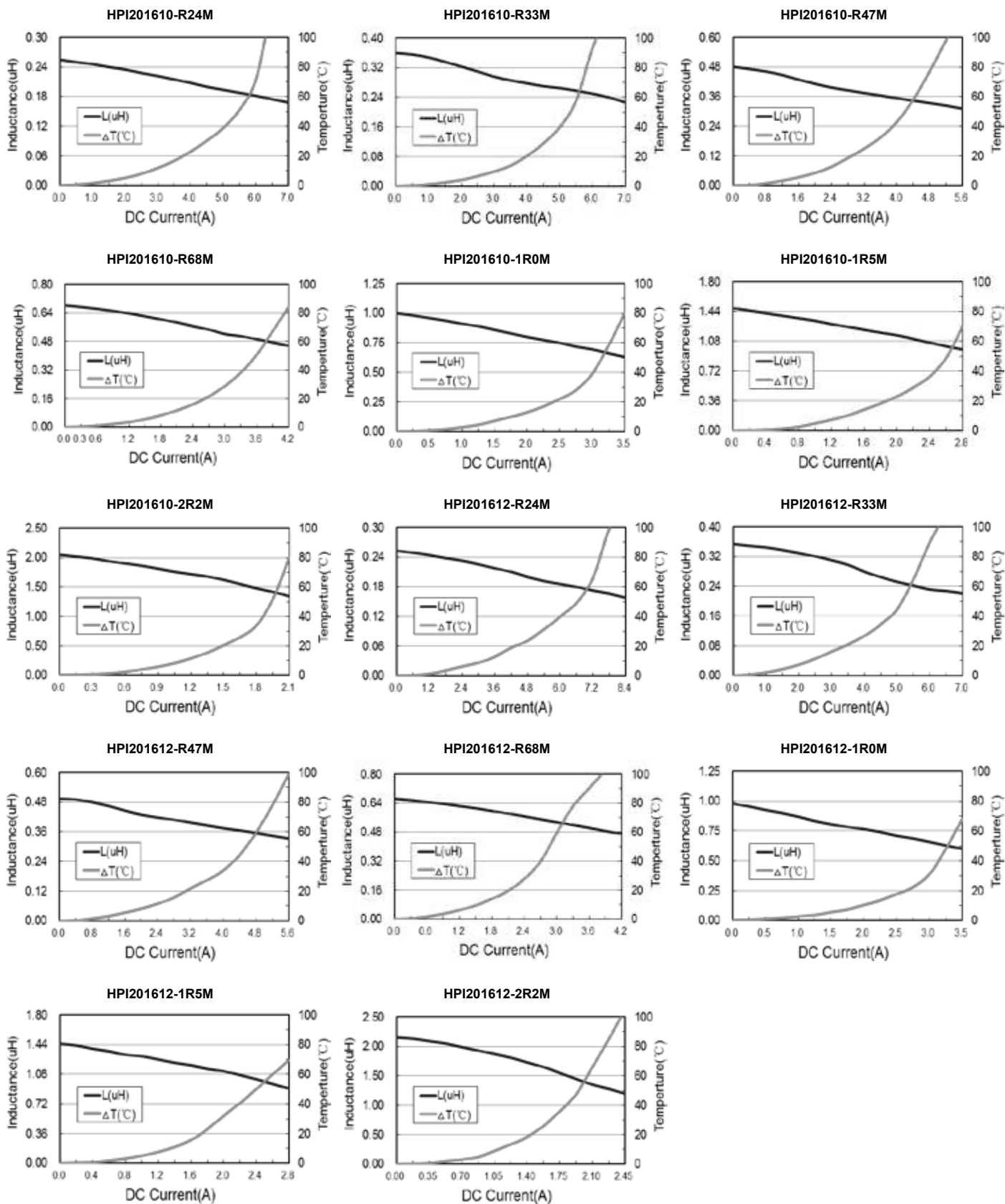
I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

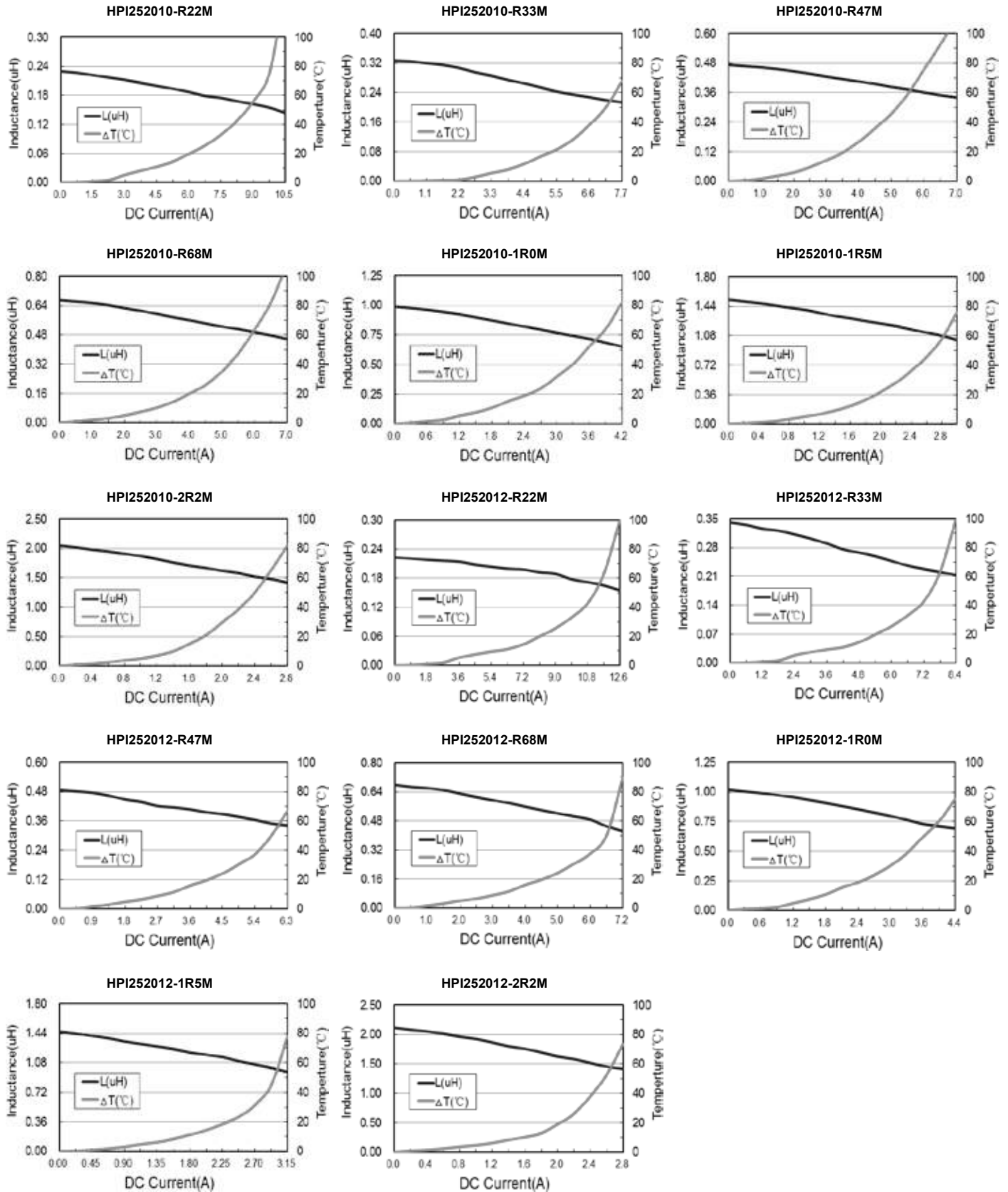


Typical performance curves :





Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



HPI2016/2520 P SERIES

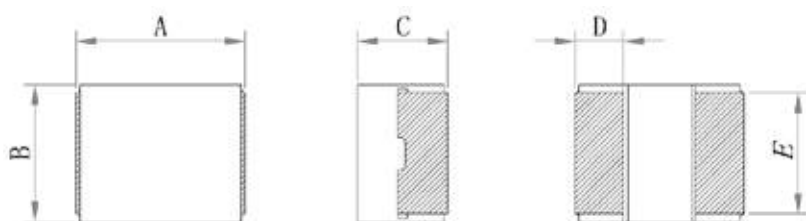
HIGH POWER INDUCTOR

Applications:

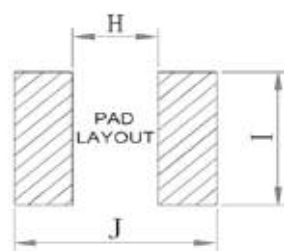
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
HPI201610P	2.0±0.2	1.6±0.2	1.0 Max	0.5±0.2	1.44	0.9	1.6	2.3
HPI201612P	2.0±0.2	1.6±0.2	1.2 Max	0.5±0.2	1.44	0.9	1.6	2.3
HPI252010P	2.5±0.2	2.0±0.2	1.0 Max	0.6±0.2	1.84	1.2	2.0	2.8
HPI252012P	2.5±0.2	2.0±0.2	1.2 Max	0.6±0.2	1.84	1.2	2.0	2.8

Features :

- High performance (I sat) realized by metal dust core.
- Low profile: 2.0mm x 1.6mm x 1.0mm
2.0mm x 1.6mm x 1.2mm
2.5mm x 2.0mm x 1.0mm
2.5mm x 2.0mm x 1.2mm
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical
- Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$.
- Operating Temperature : -55°C to 125°C

Product Identification:

HPI 201610 P – 1R0 M

(1) (2) (3) (4) (5)

- (1) Series : **High Power Inductors.**
- (2) Dimensions : **201610** is size.
- (3) Special code: Extra low DCR
- (4) Inductance: **1R0** for 1.0uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



● **HPI2016/2520 P series**

Part No.	Inductance L (uH)	Tolerance (±%)	DCR (mΩ)		I sat (A)		I rms (A)	
			Typ	Max	Typ	Max	Typ	Max
HPI201610P-R24M	0.24	20	17.0	20.5	6.0	5.4	4.7	4.2
HPI201610P-R33M	0.33	20	25.0	30.0	5.2	4.7	4.1	3.6
HPI201610P-R47M	0.47	20	32.0	38.0	5.0	4.4	3.8	3.3
HPI201610P-R68M	0.68	20	42.0	48.0	4.0	3.6	3.2	2.7
HPI201610P-1R0M	1.0	20	60.0	68.0	2.9	2.4	2.6	2.3
HPI201610P-1R5M	1.5	20	100	116	2.4	1.8	2.1	1.8
HPI201610P-2R2M	2.2	20	147	163	1.9	1.6	1.8	1.6
HPI201612P-R24M	0.24	20	15.0	19.0	6.5	5.6	5.2	4.4
HPI201612P-R33M	0.33	20	22.0	26.0	5.4	4.6	4.6	3.9
HPI201612P-R47M	0.47	20	25.0	30.0	4.5	3.8	4.0	3.4
HPI201612P-R68M	0.68	20	36.0	44.0	3.8	3.2	3.5	3.0
HPI201612P-1R0M	1.0	20	50.0	60.0	2.9	2.5	3.0	2.5
HPI201612P-1R5M	1.5	20	86.0	104	2.3	2.0	2.2	2.0
HPI201612P-2R2M	2.2	20	120	144	2.0	1.65	1.8	1.6
HPI252010P-R22M	0.22	20	15.0	17.0	8.5	7.0	6.5	5.5
HPI252010P-R33M	0.33	20	16.5	20.0	6.5	5.8	5.5	4.8
HPI252010P-R47M	0.47	20	23.0	29.0	5.5	5.0	4.1	3.6
HPI252010P-R68M	0.68	20	36.0	44.0	4.6	4.1	3.6	3.1
HPI252010P-1R0M	1.0	20	44.0	53.0	4.0	3.6	3.4	3.0
HPI252010P-1R5M	1.5	20	61.0	70.0	3.0	2.5	2.8	2.4
HPI252010P-2R2M	2.2	20	90.0	105	2.6	2.2	2.0	1.8
HPI252012P-R22M	0.22	20	11.0	13.0	8.5	7.0	10.0	8.0
HPI252012P-R33M	0.33	20	15.0	16.5	7.0	5.8	5.8	5.2
HPI252012P-R47M	0.47	20	20.0	25.0	6.0	5.0	4.8	4.2
HPI252012P-R68M	0.68	20	30.0	34.0	4.6	4.0	3.9	3.5
HPI252012P-1R0M	1.0	20	38.0	45.0	4.3	3.9	3.7	3.2
HPI252012P-1R5M	1.5	20	53.0	60.0	3.0	2.6	2.9	2.6
HPI252012P-2R2M	2.2	20	78.0	90.0	2.7	2.3	2.4	2.0
HPI252012P-3R3M	3.3	20	135.9	144	2.0	1.8	1.75	1.55

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40℃

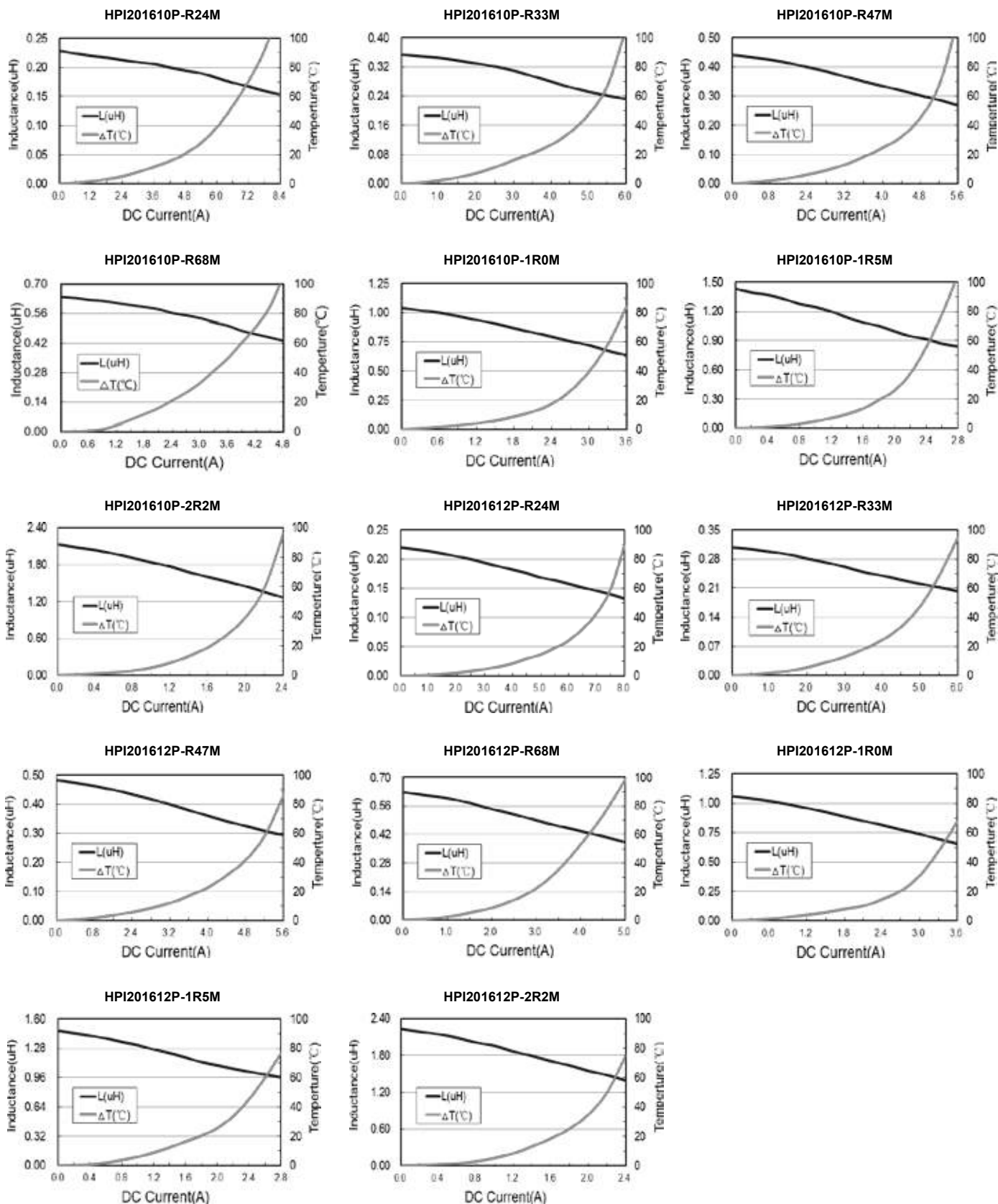
I rms (Max) : DC current (A) that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

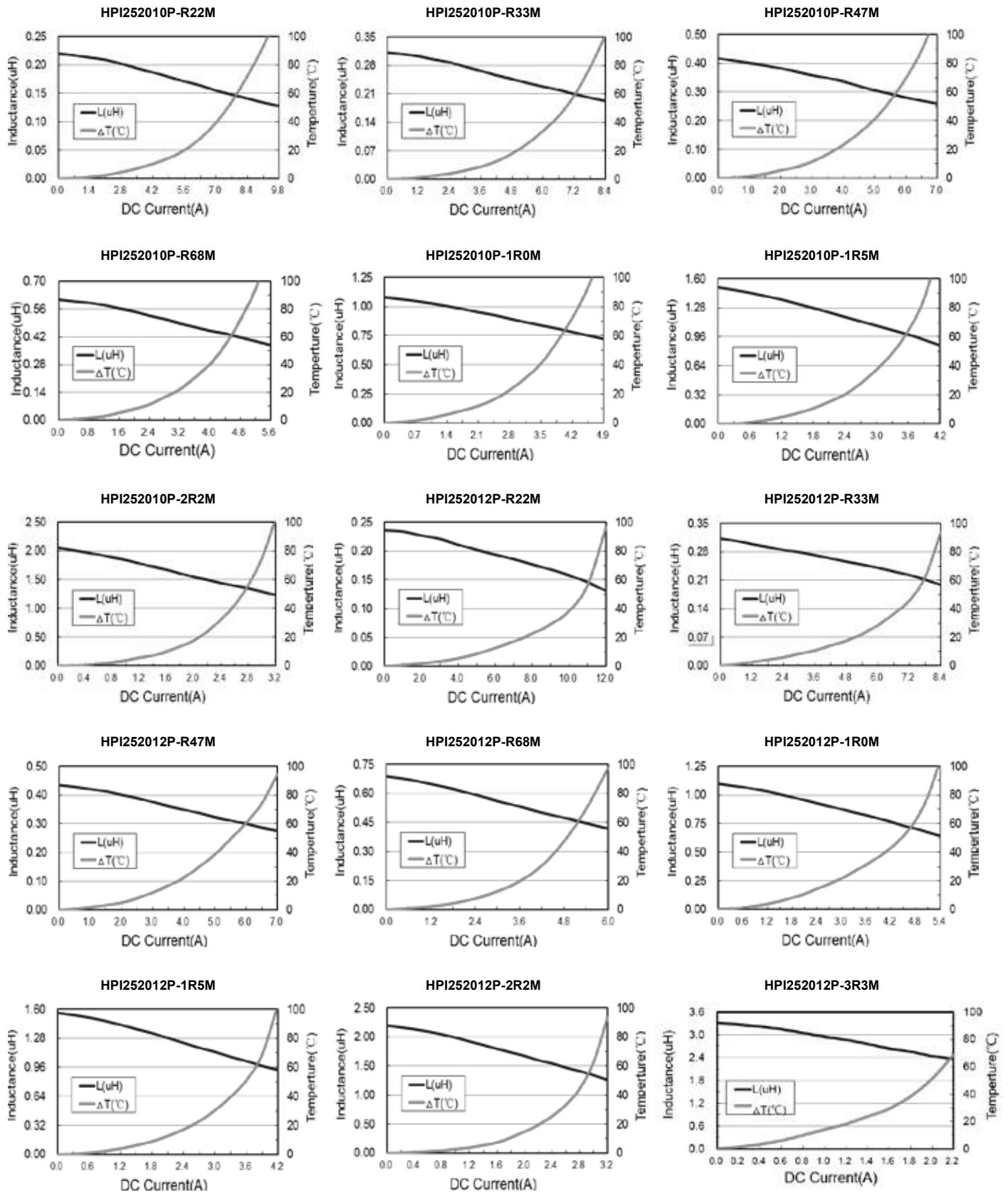


Typical performance curves :





Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

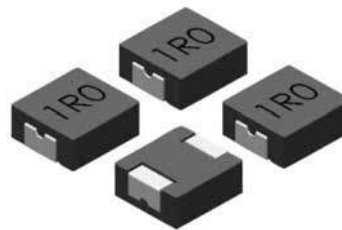


HPI 03&04 SERIES

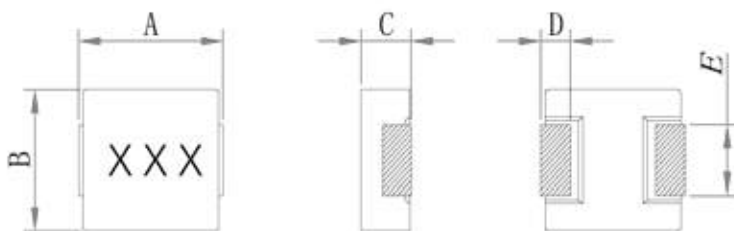
HIGH POWER INDUCTOR

Applications:

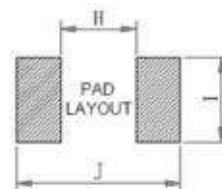
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
HPI0310	3.4±0.2	3.0±0.2	0.8±0.2	0.7±0.3	1.3±0.2	1.20	2.00	4.20
HPI0312	3.4±0.2	3.0±0.2	1.0±0.2	0.7±0.3	1.3±0.2	1.20	2.00	4.20
HPI0315	3.4±0.2	3.0±0.2	1.3±0.2	0.7±0.3	1.3±0.2	1.20	2.00	4.20
HPI0302	3.4±0.2	3.0±0.2	1.8±0.2	0.7±0.3	1.3±0.2	1.20	2.00	4.20
HPI0410	4.4±0.2	4.0±0.2	0.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
HPI0412	4.4±0.2	4.0±0.2	1.0±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
HPI0415	4.4±0.2	4.0±0.2	1.3±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
HPI0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95

Features :

- High performance (I sat) realized by metal dust core.
- Low profile: 1.0~2.0mm
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

HPI 0310 – 1R0 M

(1) (2) (3) (4)

(1) Series : **H**igh **P**ower Inductors.

(2) Dimensions : **0310** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (Isat) : The current will cause L₀ to drop approximately 30% typical
- Temperature Rise Current (I_{rms}) : The current will cause the coil temperature rise approximately Δ T=40°C.
- Operating Temperature : -55°C to 125°C

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



● **HPI03 series**

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPI0310-R22M	0.22	20	11.0	14.0	11.0	9.0	7.0	5.5
HPI0310-R33M	0.33	20	15.0	18.0	10.0	9.0	6.0	4.0
HPI0310-R47M	0.47	20	22.0	24.0	7.0	6.0	4.0	3.0
HPI0310-1R0M	1.0	20	40.0	48.0	5.0	4.0	2.8	2.4
HPI0310-1R5M	1.5	20	54.0	65.0	4.0	3.5	2.4	2.0
HPI0310-2R2M	2.2	20	87.0	100	3.5	3.0	1.8	1.5
HPI0310-100M	10.0	20	380	430	1.4	1.2	0.9	0.7
HPI0312-R22M	0.22	20	9.6	12.0	12	11.0	9.0	7.5
HPI0312-R33M	0.33	20	15.8	18.0	9.6	8.6	7.2	5.2
HPI0312-R47M	0.47	20	22.0	25.0	8.2	7.2	6.2	4.2
HPI0312-1R0M	1.0	20	39.2	45.0	5.8	5.0	4.0	3.0
HPI0312-2R2M	2.2	20	88.0	102	4.0	3.5	2.5	2.1
HPI0312-3R3M	3.3	20	136	155	3.2	2.8	1.8	1.4
HPI0312-4R7M	4.7	20	160	190	2.0	1.8	1.4	0.9
HPI0312-100M	10.0	20	313	360	1.5	1.2	1.0	0.8
HPI0315-R47M	0.47	20	19.0	22.0	9.0	7.5	7.0	5.0
HPI0315-1R0M	1.0	20	36.0	42.0	6.2	5.2	4.5	3.5
HPI0315-1R5M	1.5	20	50.0	60.0	5.8	4.8	3.8	3.0
HPI0315-2R2M	2.2	20	72.0	85.0	5.0	4.0	3.2	2.6
HPI0315-3R3M	3.3	20	92.0	110	3.5	3.0	2.2	1.5
HPI0315-100M	10.0	20	313	360	2.0	1.5	1.2	0.9
HPI0302-R22M	0.22	20	8.0	10.0	16	13.0	10.0	8.0
HPI0302-R47M	0.47	20	15.0	18.0	12	10.0	8.0	6.5
HPI0302-R68M	0.68	20	22.0	26.0	10	8.5	7.0	5.5
HPI0302-1R0M	1.0	20	25.0	30.0	8.0	6.5	5.0	4.0
HPI0302-1R5M	1.5	20	34.0	39.0	6.0	5.0	4.2	3.2
HPI0302-2R2M	2.2	20	60.0	69.0	4.8	4.0	3.3	2.8
HPI0302-3R3M	3.3	20	70.0	83.0	4.0	3.5	2.8	2.2
HPI0302-4R7M	4.7	20	120	144	3.5	3.0	2.4	2.0
HPI0302-6R8M	6.8	20	153	184	3.0	2.6	1.6	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

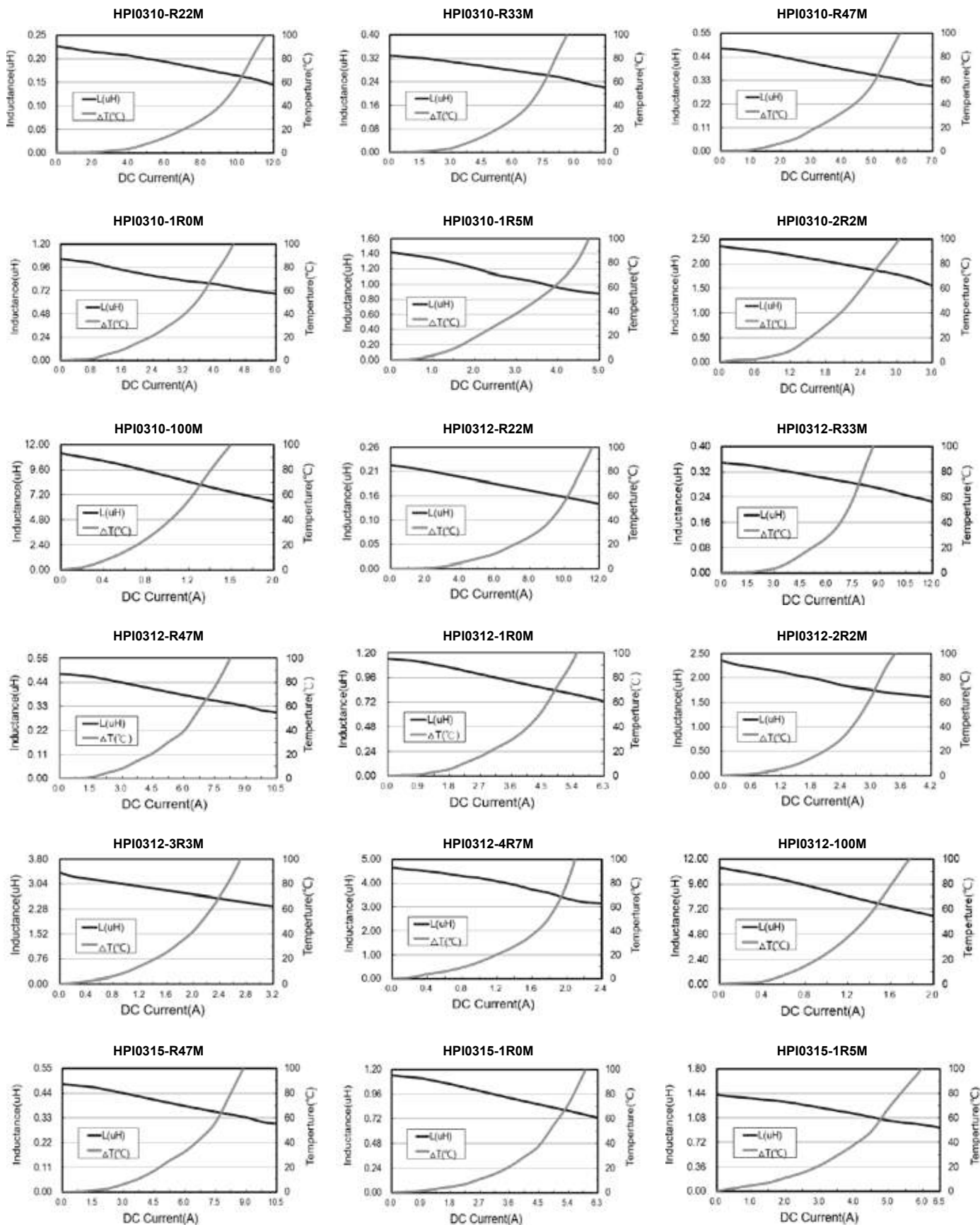
I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

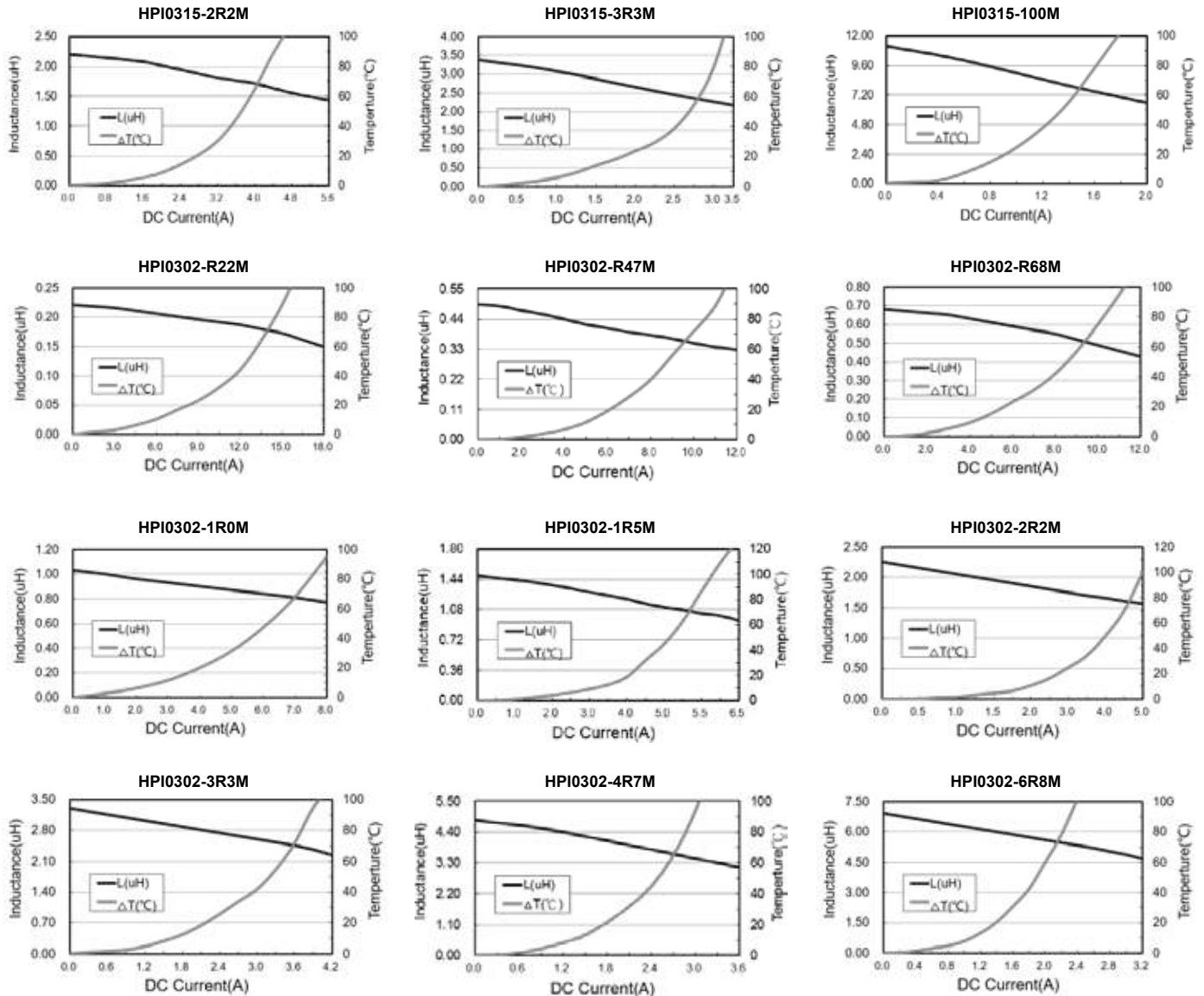


Typical Performance curves:





Typical Performance curves:





● **HPI04 series**

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPI0410-R47M	0.47	20	15.2	18.5	11.0	9.0	8.5	7.0
HPI0410-1R0M	1.0	20	35.0	42.0	6.5	5.5	4.2	3.5
HPI0410-2R2M	2.2	20	90.0	108	4.5	4.0	2.8	2.4
HPI0410-6R8M	6.8	20	248	298	2.8	2.2	1.4	1.1
HPI0410-100M	10.0	20	270	400	1.6	1.5	0.8	0.7
HPI0412-R33M	0.33	20	12.0	14.5	14.0	12.0	10.0	8.0
HPI0412-R47M	0.47	20	16.8	20.0	9.5	8.0	8.8	7.0
HPI0412-R68M	0.68	20	19.0	23.0	9.0	7.0	6.0	5.0
HPI0412-1R0M	1.0	20	36.5	43.0	7.8	6.2	5.2	4.5
HPI0412-1R5M	1.5	20	54.5	62.0	6.2	5.4	4.2	3.5
HPI0412-2R2M	2.2	20	72.0	80.0	5.0	4.2	3.3	2.8
HPI0412-3R3M	3.3	20	97.0	111	4.5	3.9	2.8	2.4
HPI0412-4R7M	4.7	20	119	143	3.2	2.8	2.2	1.8
HPI0415-R22M	0.22	20	7.3	8.8	20.0	15.0	11.0	9.0
HPI0415-R47M	0.47	20	17.8	22.0	13.0	11.0	8.8	7.0
HPI0415-1R0M	1.0	20	28.5	33.5	8.0	6.5	5.5	5.0
HPI0415-1R5M	1.5	20	45.0	55.0	6.0	5.0	3.8	3.3
HPI0415-2R2M	2.2	20	53.0	62.5	5.5	4.5	3.5	3.0
HPI0415-100M	10.0	20	232	282	1.8	1.4	1.2	1.0
HPI0402-R12M	0.12	20	4.2	4.8	30.0	24.0	15.0	12.0
HPI0402-R22M	0.22	20	6.2	7.4	24.0	18.0	14.0	12.0
HPI0402-R33M	0.33	20	7.5	10.2	15.0	12.0	11.0	9.0
HPI0402-R47M	0.47	20	9.4	11.3	14.0	12.0	10.0	8.0
HPI0402-R68M	0.68	20	13.3	16.0	12.0	11.0	9.0	7.0
HPI0402-1R0M	1.0	20	16.4	20.0	9.0	7.2	6.5	5.5
HPI0402-1R5M	1.5	20	22.0	26.4	7.5	6.5	4.8	4.0
HPI0402-2R2M	2.2	20	31.5	38.0	6.0	5.5	4.0	3.5
HPI0402-3R3M	3.3	20	45.0	54.0	5.0	4.5	3.5	3.0
HPI0402-4R7M	4.7	20	58.0	70.0	4.5	4.0	3.0	2.2
HPI0402-100M	10.0	20	170	190	3.5	3.0	2.0	1.8
HPI0402-220M	22.0	20	265	320	2.1	1.6	1.2	1.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

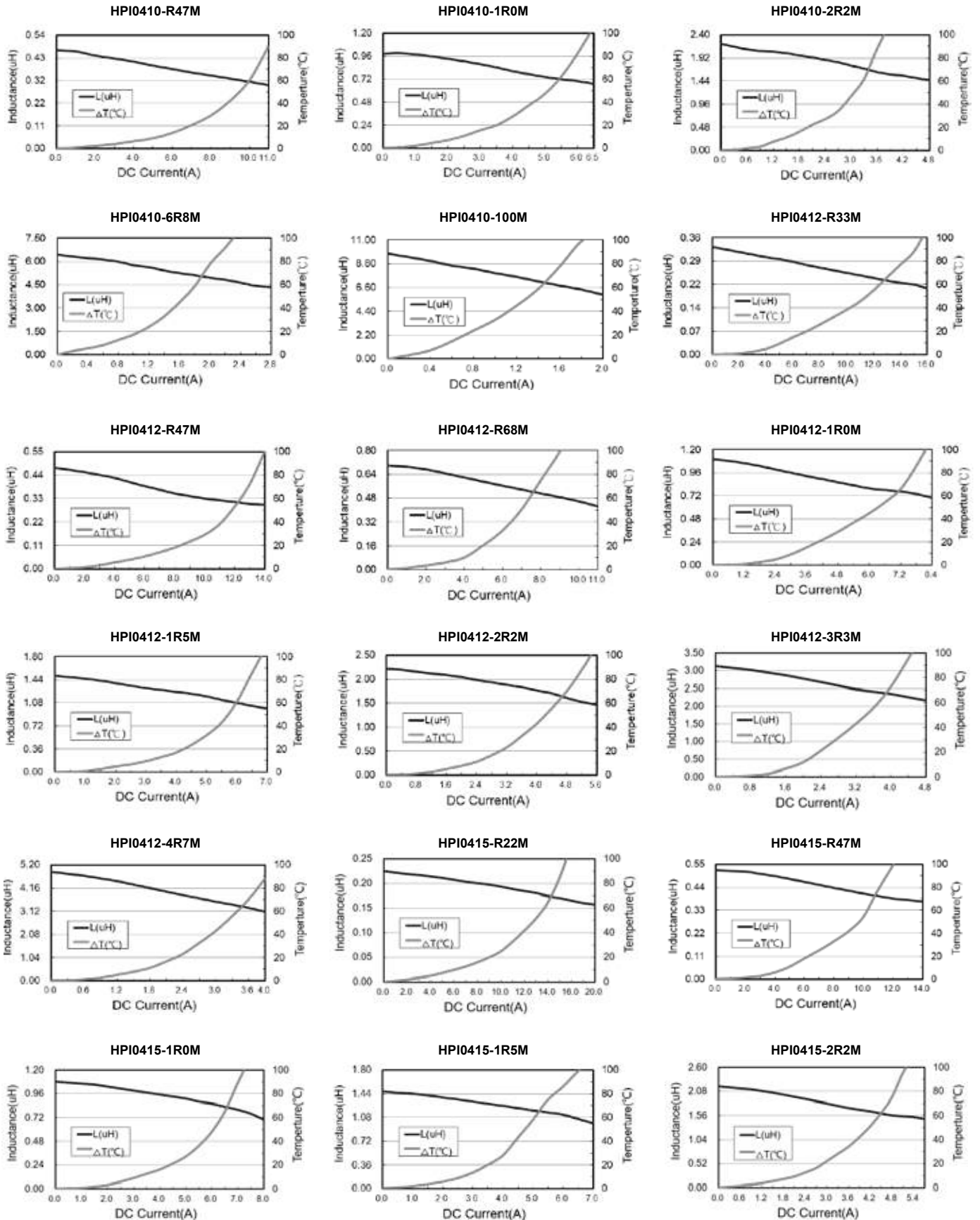
I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

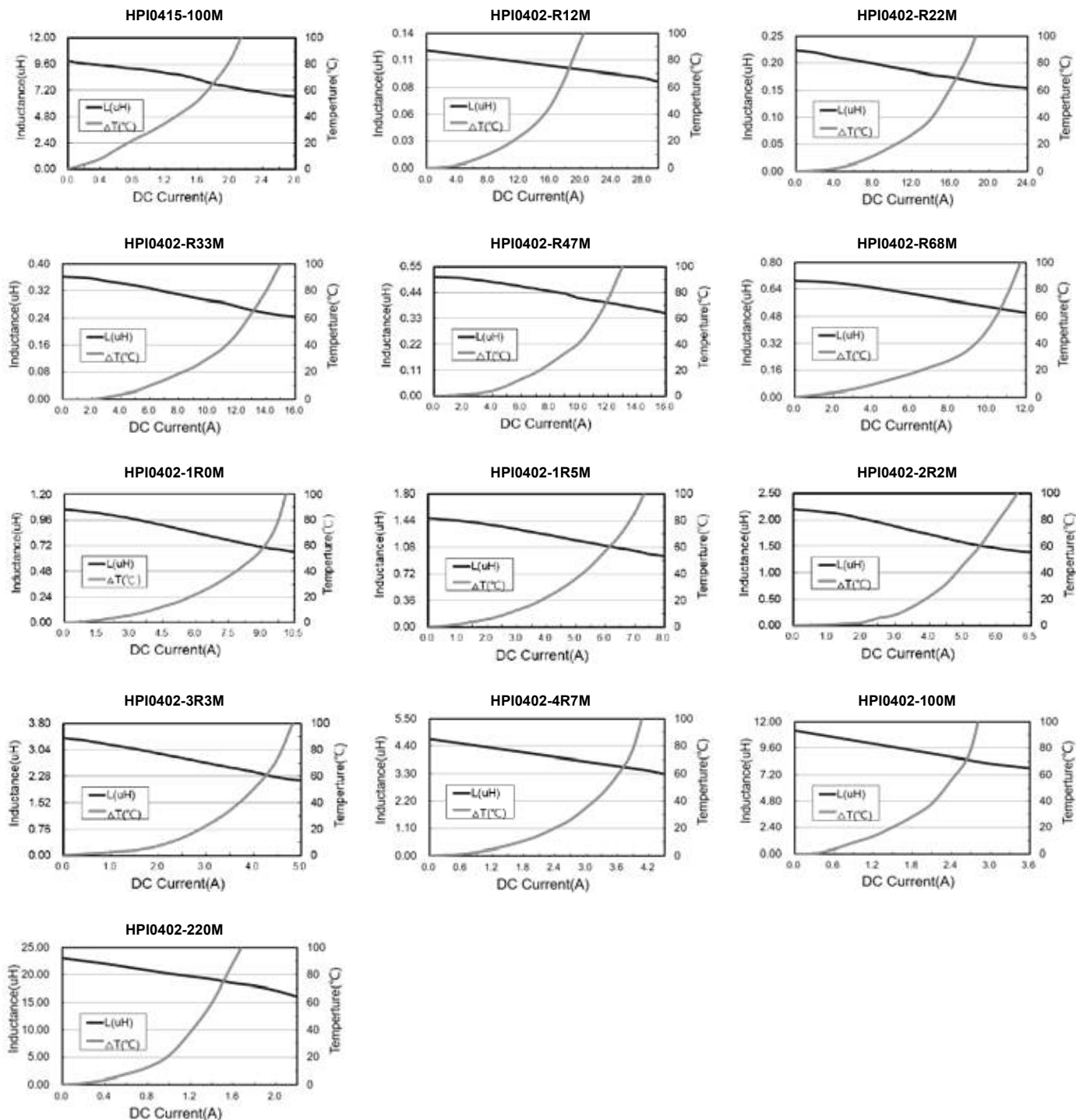


Typical Performance curves:





Typical Performance curves:



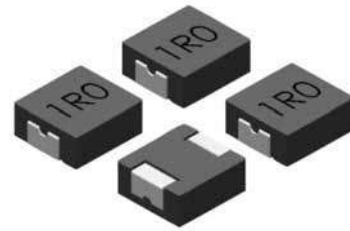


HPI 05&06 SERIES

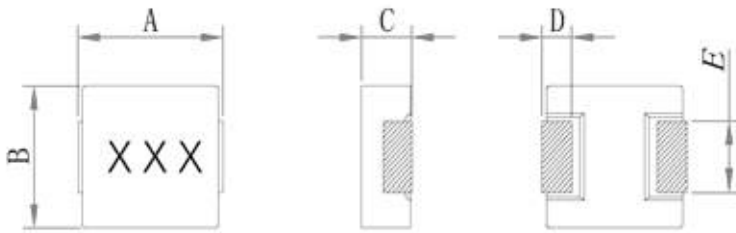
HIGH POWER INDUCTOR

Applications:

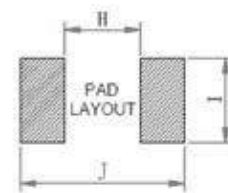
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
HPI0510	5.5±0.2	5.2±0.2	0.8±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPI0512	5.5±0.2	5.2±0.2	1.0±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPI0515	5.5±0.2	5.2±0.2	1.3±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPI0518	5.5±0.2	5.2±0.2	1.6±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPI0502	5.5±0.2	5.2±0.2	1.8±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPI0610	7.1±0.2	6.6±0.2	0.8±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
HPI0612	7.1±0.2	6.6±0.2	1.0±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
HPI0615	7.1±0.2	6.6±0.2	1.3±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
HPI0618	7.1±0.2	6.6±0.2	1.6±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
HPI0602	7.1±0.2	6.6±0.2	1.8±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00

Features :

- High performance (I sat) realized by metal dust core.
- Low profile: 1.0~2.0mm
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

HPI 0510 - 1R0 M

(1) (2) (3) (4)

(1) Series : **High Power Inductors.**

(2) Dimensions : **0510** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical
- Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately $\Delta T=40^\circ\text{C}$.
- Operating Temperature : -55°C to 125°C

Test equipments :

- L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)
with HP42841A Current Source
- DCR: Milli-ohm meter



● HPI05 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPI0510-1R0M	1.0	20	42.8	52.0	9.4	7.8	3.5	3.0
HPI0510-2R2M	2.2	20	87.0	105	4.5	3.8	3.0	2.5
HPI0510-4R7M	4.7	20	158	190	4.0	3.5	2.2	2.0
HPI0512-1R0M	1.0	20	27.6	31.8	9.0	8.2	5.7	4.8
HPI0512-2R2M	2.2	20	55.0	66.0	5.2	4.2	4.0	3.5
HPI0512-4R7M	4.7	20	130	156	4.0	3.5	2.5	2.0
HPI0512-100M	10.0	20	272	326	2.5	2.2	1.8	1.5
HPI0515-R68M	0.68	20	11.6	14.5	15.0	13.0	9.0	8.0
HPI0515-1R0M	1.0	20	18.8	22.6	11.5	9.5	6.6	6.0
HPI0515-1R5M	1.5	20	28.0	34.0	9.5	8.2	5.7	5.0
HPI0515-2R2M	2.2	20	41.4	49.5	7.0	6.0	4.3	3.4
HPI0515-4R7M	4.7	20	80.0	96.0	5.0	4.2	3.0	2.6
HPI0515-100M	10.0	20	149	170	3.6	3.0	2.4	2.0
HPI0518-R47M	0.47	20	7.4	8.9	19.0	15.5	10.5	9.5
HPI0518-2R2M	2.2	20	29.2	35.0	8.2	7.4	5.2	4.7
HPI0518-4R7M	4.7	20	61.8	72.8	4.6	4.0	3.5	3.0
HPI0518-6R8M	6.8	20	71.5	86.0	3.6	3.0	3.2	2.8
HPI0518-100M	10.0	20	126	149	3.4	2.9	2.8	2.4
HPI0502-1R0M	1.0	20	13.7	16.5	13.5	10.6	7.5	6.8
HPI0502-3R3M	3.3	20	49.4	59.3	7.8	6.5	4.2	3.5
HPI0502-4R7M	4.7	20	54.0	65.0	4.8	4.0	4.1	3.2
HPI0502-100M	10.0	20	135	162	4.0	3.3	2.5	2.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

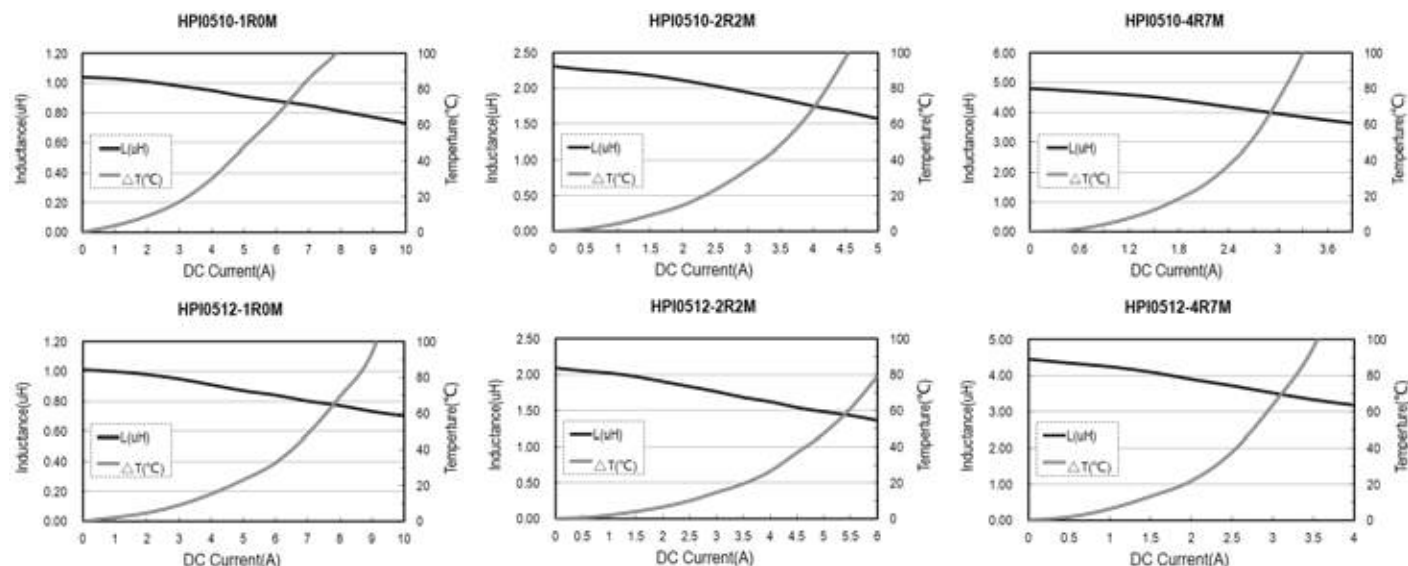
I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

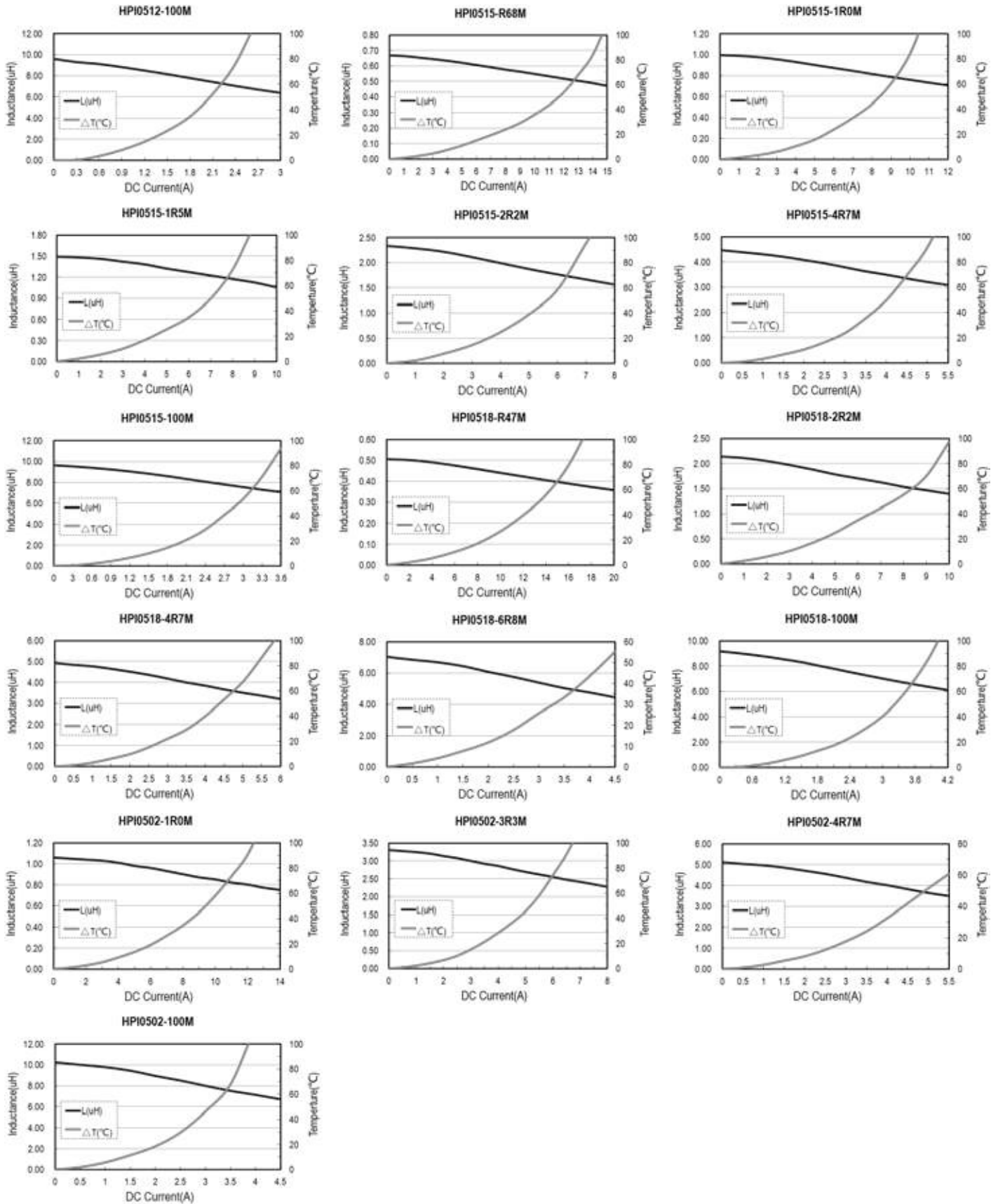
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:





Typical Performance curves:





● HPI06 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPI0610-R68M	0.68	20	23.2	27.8	12.5	10.5	6.2	5.5
HPI0610-1R0M	1.0	20	34.5	41.5	11.0	9.0	5.2	4.2
HPI0610-1R5M	1.5	20	59.3	71.0	7.3	6.3	4.2	3.7
HPI0612-1R0M	1.0	20	24.9	28.0	12.0	9.7	6.0	5.0
HPI0612-2R2M	2.2	20	54.4	65.0	6.4	5.8	4.5	4.0
HPI0612-4R7M	4.7	20	76.2	91.0	4.5	4.0	3.5	3.0
HPI0615-1R0M	1.0	20	18.4	21.0	12.0	10.0	8.2	7.6
HPI0615-1R5M	1.5	20	23.9	28.0	11.2	9.6	7.0	6.0
HPI0615-2R2M	2.2	20	36.0	42.0	7.5	7.0	6.0	5.2
HPI0615-3R3M	3.3	20	54.0	63.0	7.0	6.4	4.8	4.2
HPI0618-2R2M	2.2	20	29.7	34.0	11.0	10.0	6.0	5.0
HPI0618-3R3M	3.3	20	46.6	56.0	8.4	7.0	4.5	4.0
HPI0618-100M	10.0	20	125	145	4.8	4.0	2.6	2.4
HPI0602-2R2M	2.2	20	18.5	22.5	10.5	9.0	7.0	6.5
HPI0602-3R3M	3.3	20	40.0	48.0	9.2	8.3	4.8	4.2
HPI0602-4R7M	4.7	20	41.0	50.0	7.6	6.5	4.5	4.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25°C.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

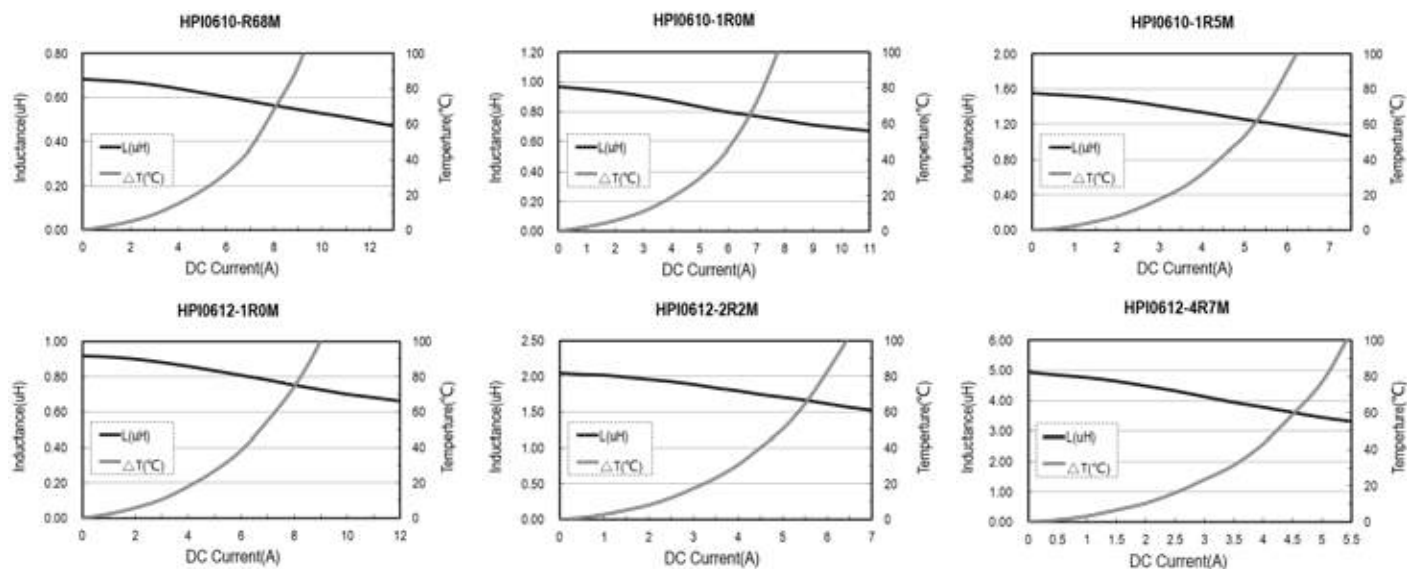
I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40°C

I rms (Max) : DC current (A) that will cause an ΔT of 40°C Max

Note 4: Operating temperature range includes self-temperature rise.

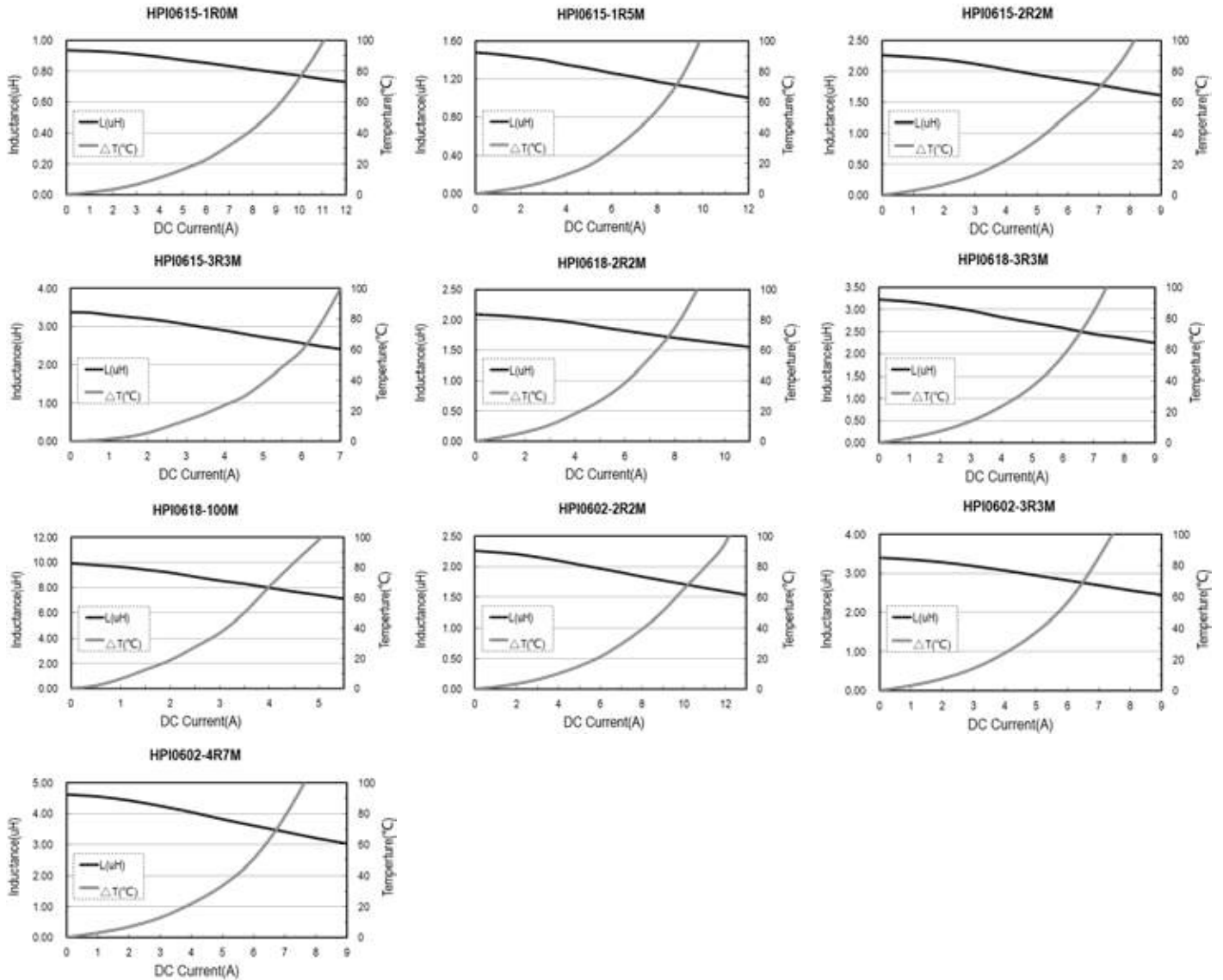
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:





Typical Performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

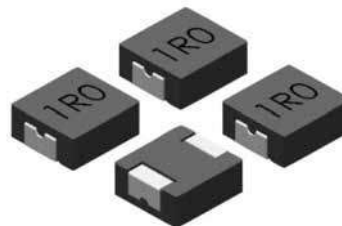


HPIF SERIES

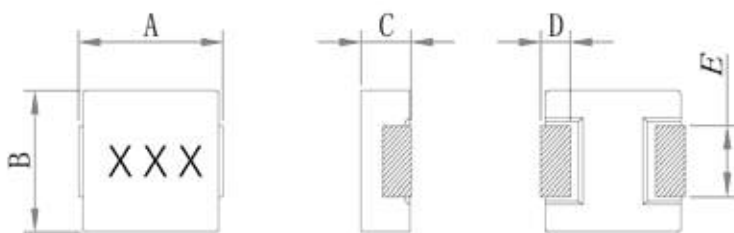
HIGH POWER INDUCTOR

Applications:

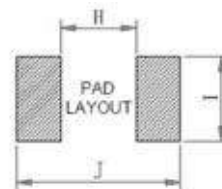
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server



Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
HPIF0412	4.4±0.2	4.0±0.2	1.0±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
HPIF0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
HPIF0518	5.5±0.2	5.2±0.2	1.6±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
HPIF0612	7.1±0.2	6.6±0.2	1.0±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
HPIF0618	7.1±0.2	6.6±0.2	1.6±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00

Features :

- High performance (I sat) realized by metal dust core.
- Low profile: 1.2~2.0mm
- Low loss realized with low DCR
- Magnetically Shielded.
- RoHS compliant.

Product Identification:

HPIF 0412 – 1R0 M

(1) (2) (3) (4)

(1) Series: **High Power Inductors**.

(2) Dimensions: **0412** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

- Saturation Current (I_{sat}) : The current will cause L₀ to drop approximately 30% typical
- Temperature Rise Current (I_{rms}) : The current will cause the coil temperature rise approximately ΔT=40°C.
- Operating Temperature : -55°C to 125°C

Test equipments :

L tested by Wayne kerr 3260B LCR meter with

Wayne kerr 3265B bias current source.

DCR tested by Milli-ohm meter.



● **HPIF04/05/06 series**

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
HPIF0412-R47M	0.47	20	19.0	24.0	6.8	6.0	5.4	5.0
HPIF0412-R68M	0.68	20	25.0	30.0	6.7	5.5	5.1	4.7
HPIF0412-1R0M	1.0	20	35.0	42.0	5.3	4.5	4.2	3.5
HPIF0412-2R2M	2.2	20	68.0	80.0	3.0	2.4	2.8	2.2
HPIF0412-4R7M	4.7	20	145	168	2.2	1.8	2.0	1.6
HPIF0402-R33M	0.33	20	8.2	9.8	11.0	9.0	10.0	9.0
HPIF0402-R47M	0.47	20	9.8	12.0	9.5	7.6	9.0	8.0
HPIF0402-4R7M	4.7	20	57.0	75.0	3.4	2.9	3.2	2.9
HPIF0402-100M	10.0	20	172	210	2.2	1.9	2.0	1.8
HPIF0518-R47M	0.47	20	8.3	9.0	12.0	9.0	10.5	9.0
HPIF0518-1R0M	1.0	20	15.0	17.0	9.0	7.2	8.0	7.0
HPIF0518-2R2M	2.2	20	30.0	35.0	6.0	4.5	5.0	4.5
HPIF0518-4R7M	4.7	20	78.0	85.0	4.0	3.0	3.5	3.0
HPIF0518-100M	10	20	122	149	2.5	2.0	2.5	2.2
HPIF0612-R47M	0.47	20	15.0	17.0	11.0	9.0	8.0	7.0
HPIF0612-1R0M	1.0	20	25.0	29.0	7.5	6.0	6.0	5.2
HPIF0612-1R5M	1.5	20	31.0	37.0	6.0	5.0	5.0	4.5
HPIF0612-2R2M	2.2	20	51.0	58.0	5.0	4.2	4.0	3.5
HPIF0612-100M	10.0	20	230	270	2.6	2.2	2.0	1.7
HPIF0618-R47M	0.47	20	7.8	8.4	18.0	13.5	11.5	9.5
HPIF0618-1R0M	1.0	20	13.0	16.0	12.0	9.5	8.5	7.0
HPIF0618-2R2M	2.2	20	32.0	35.0	8.0	6.0	5.5	4.8
HPIF0618-3R3M	3.3	20	41.0	50.0	6.5	5.2	4.5	4.0
HPIF0618-100M	10.0	20	132	155	4.0	3.0	2.3	2.0

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 1MHz, 1.0 V.

Note 3: I sat (Typ) : DC current (A) that will cause L0 to drop approximately 30%

I sat (Max) : DC current (A) that will cause L0 to drop 30% Max

I rms (Typ) : DC current (A) that will cause an approximate ΔT of 40℃

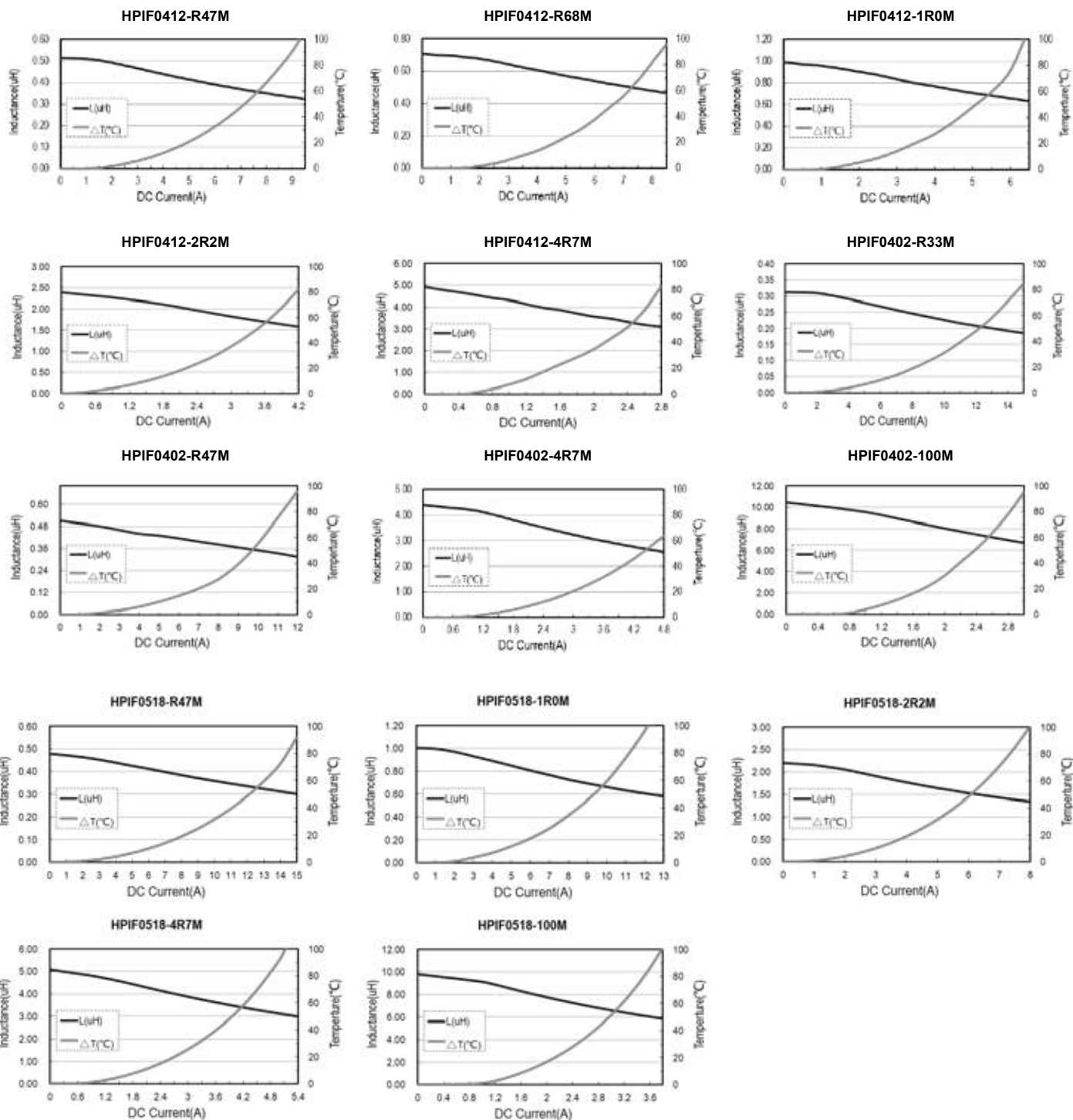
I rms (Max) : DC current (A) that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

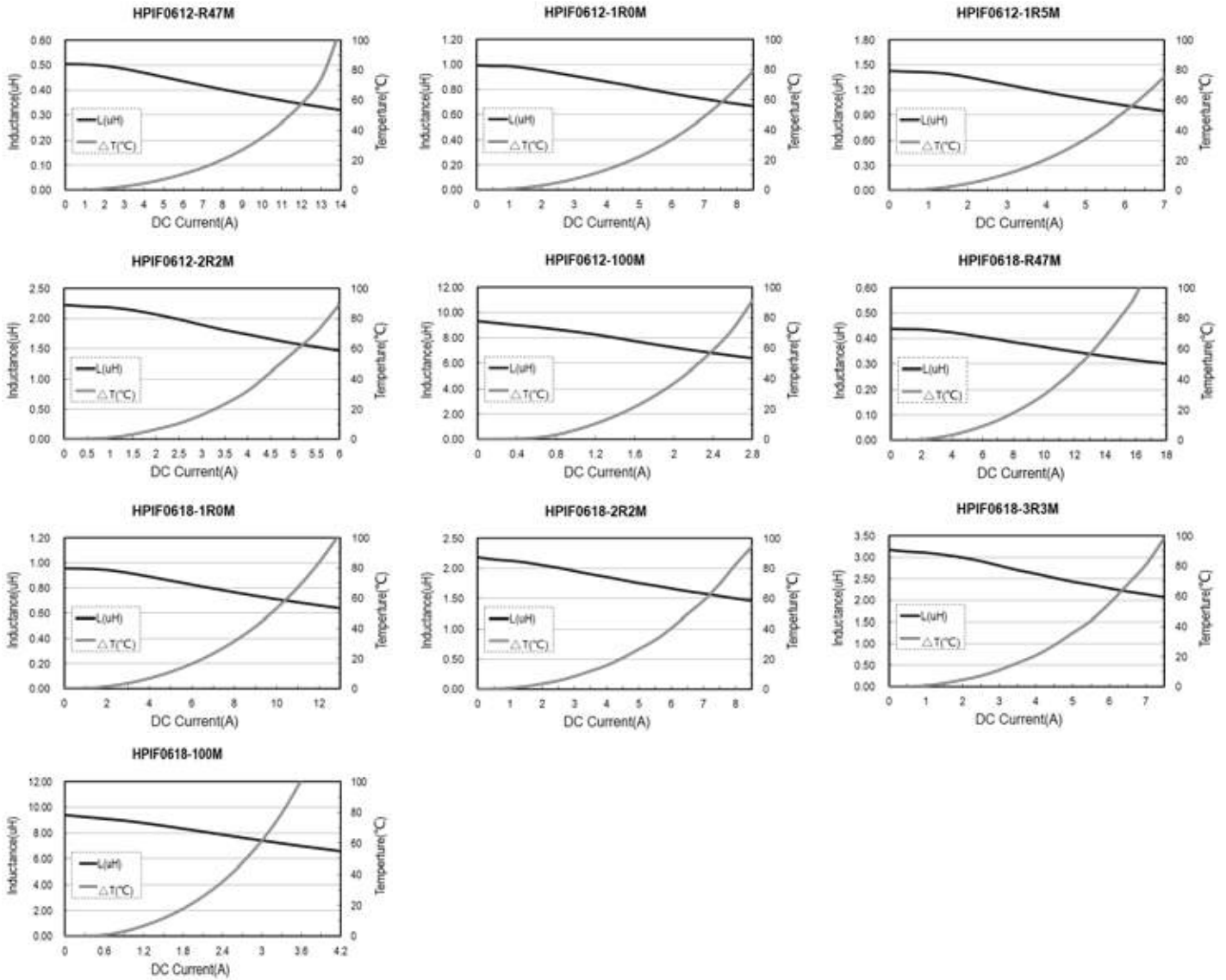


Typical Performance curves:





Typical Performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

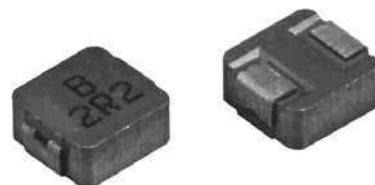


UPI B SERIES

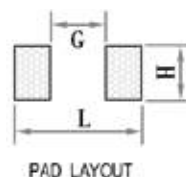
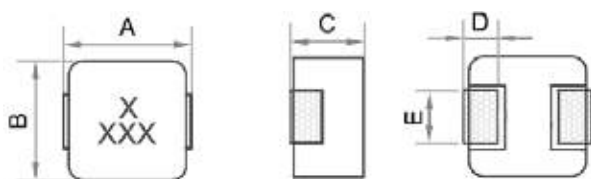
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications :

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	G	H	L
UPIBS0603	7.10±0.2	6.60±0.2	2.8±0.2	1.60±0.3	By each	3.7	3.5	8.0
UPIB0804	8.60±0.3	8.1±0.25	3.8±0.2	1.80±0.3	3.2±0.5	4.6	3.8	10.6
UPIB1004	11.0±0.5	10.0±0.3	3.8±0.2	2.30±0.3	3.0±0.5	5.4	4.5	12.4
UPIB1205	13.4±0.5	12.6±0.3	4.8±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5
UPIB1265	13.4±0.5	12.6±0.3	6.3±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5
UPIB1704	17.3±0.5	17.0±0.3	3.8±0.2	2.10±0.3	12.0±0.3	11.7	12.2	18.0
UPIB1707	17.3±0.5	17.0±0.3	6.7±0.3	2.10±0.3	12.0±0.3	11.7	12.2	18.0
UPIB2213	23.0±0.5	22.0±0.5	12.5±0.5	5.00±0.4	18.5±0.3	12.2	19.6	23.8

Features :

- Low profile and low DCR.
- Shielded construction.
- handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C .

Product Identification :

UPI B S 0603 - 2R2 M - C

(1) (2) (3) (4) (5) (6)

- (1) Series : Ultra High Current SMT Power Inductors.
- (2) Style : B-Powder Type S-Small Size.
- (3) Dimensions : 0603 is size.
- (4) Inductance: 2R2 for 2.2 uH.
- (5) Inductance tolerance: M: $\pm 20\%$.
- (6) Coating

Test equipments :

- L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C .

Handling and precautions :

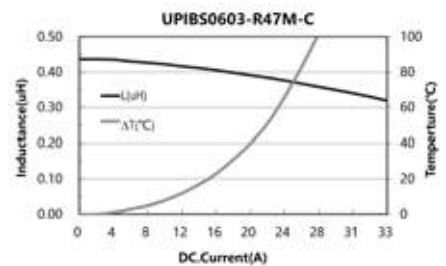
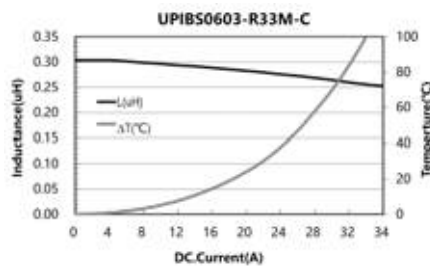
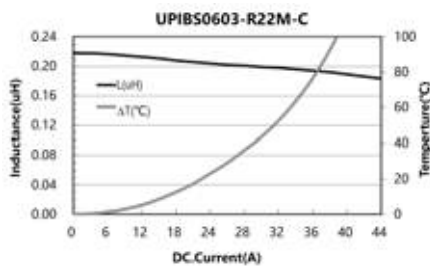
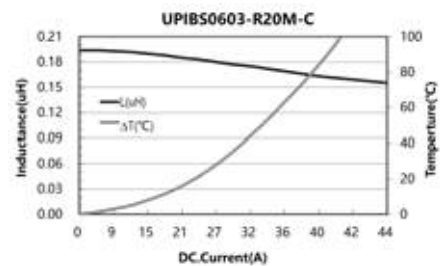
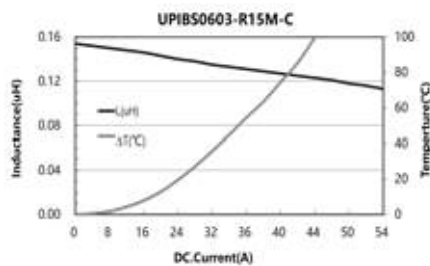
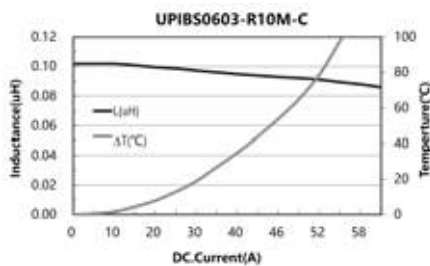
- Please contact us before cleaning this product.



● **UPIBS0603 series**

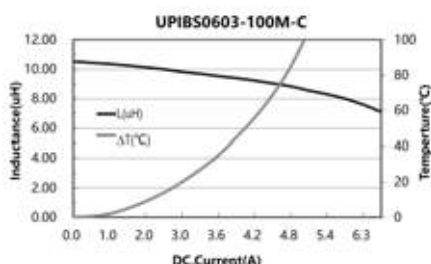
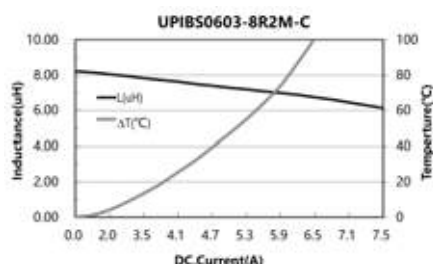
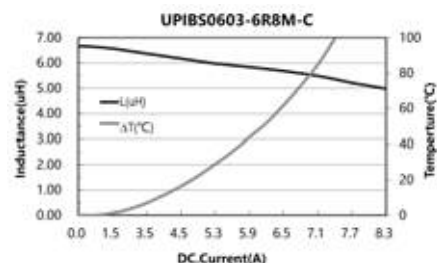
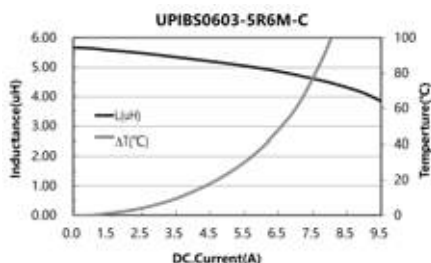
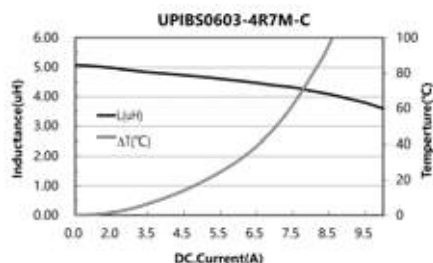
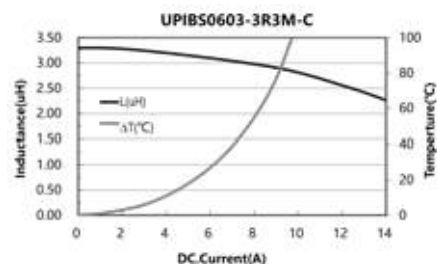
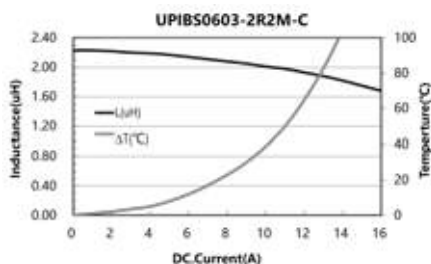
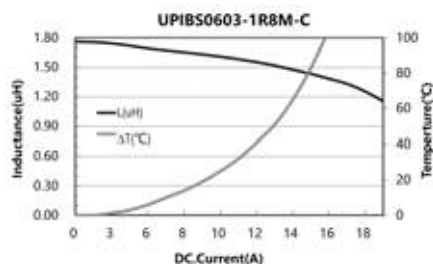
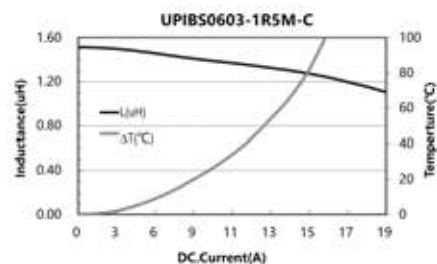
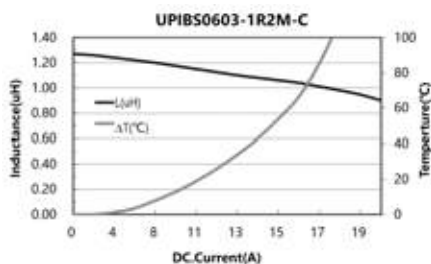
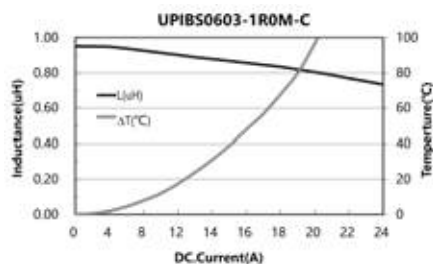
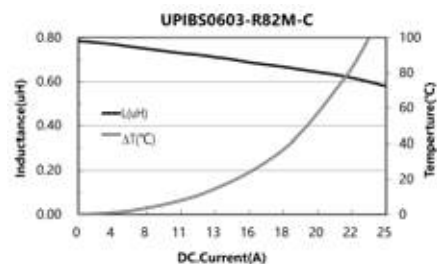
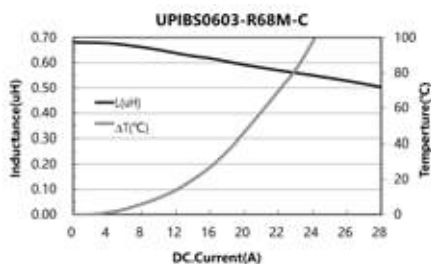
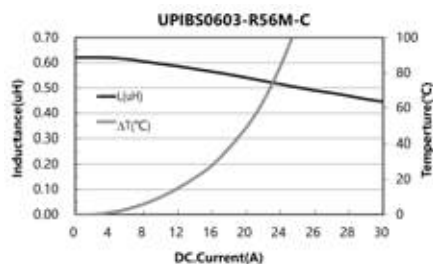
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIBS0603-R10M-C	0.10	1.15	1.70	60.0	32.5	2.0
UPIBS0603-R15M-C	0.15	1.35	2.50	52.0	26.0	2.0
UPIBS0603-R20M-C	0.20	2.45	3.00	41.0	24.0	3.0
UPIBS0603-R22M-C	0.22	2.45	2.80	40.0	23.0	3.0
UPIBS0603-R33M-C	0.33	3.10	3.90	30.0	20.0	3.0
UPIBS0603-R47M-C	0.47	4.00	4.20	26.0	17.5	3.0
UPIBS0603-R56M-C	0.56	4.80	5.00	25.5	16.5	3.0
UPIBS0603-R68M-C	0.68	4.95	5.50	25.0	15.5	3.0
UPIBS0603-R82M-C	0.82	7.15	8.00	24.0	13.0	3.0
UPIBS0603-1R0M-C	1.0	9.30	10.0	22.0	11.0	3.0
UPIBS0603-1R2M-C	1.2	11.6	13.0	20.0	10.0	3.0
UPIBS0603-1R5M-C	1.5	13.5	15.0	18.0	9.0	3.0
UPIBS0603-1R8M-C	1.8	14.9	18.0	16.0	8.5	3.0
UPIBS0603-2R2M-C	2.2	18.3	20.0	14.0	8.0	3.0
UPIBS0603-3R3M-C	3.3	28.0	30.0	13.5	6.0	3.0
UPIBS0603-4R7M-C	4.7	38.0	40.0	10.0	5.5	3.0
UPIBS0603-5R6M-C	5.6	46.9	50.0	9.0	5.0	3.0
UPIBS0603-6R8M-C	6.8	54.8	60.0	8.0	4.5	3.0
UPIBS0603-8R2M-C	8.2	61.5	68.0	7.5	4.0	3.0
UPIBS0603-100M-C	10.0	72.4	105.0	7.0	3.0	3.0

Typical performance curves :





Typical performance curves :

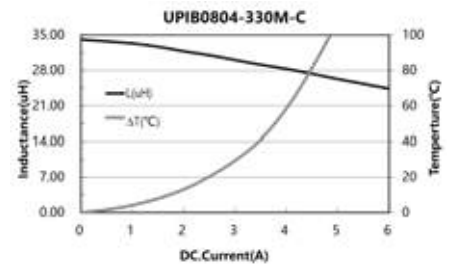
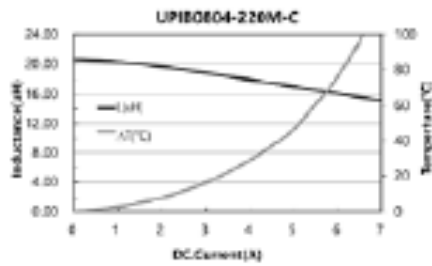
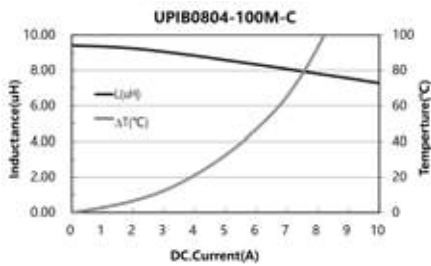
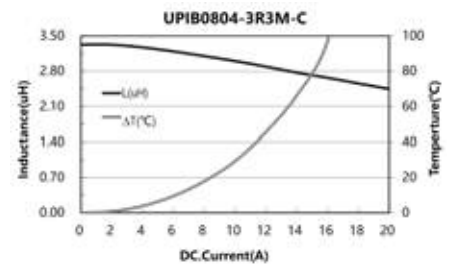
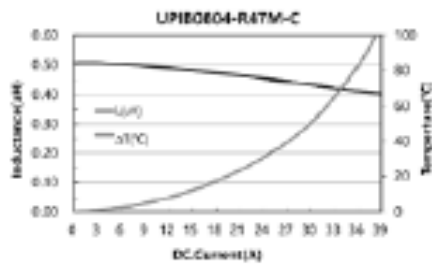
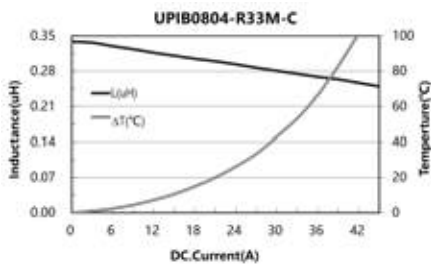




● UPIB 0804 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIB0804-R33M-C	0.33	1.23	1.50	44.0	29.5	3.2
UPIB0804-R47M-C	0.47	1.77	2.20	39.0	27.0	3.2
UPIB0804-3R3M-C	3.30	13.4	17.70	20.0	10.0	3.2
UPIB0804-100M-C	10.0	48.2	59.90	9.5	5.5	3.2
UPIB0804-220M-C	22.0	72.9	86.24	7.0	4.5	3.2
UPIB0804-330M-C	33.0	119.8	144.0	5.4	3.5	3.2

Typical performance curves :

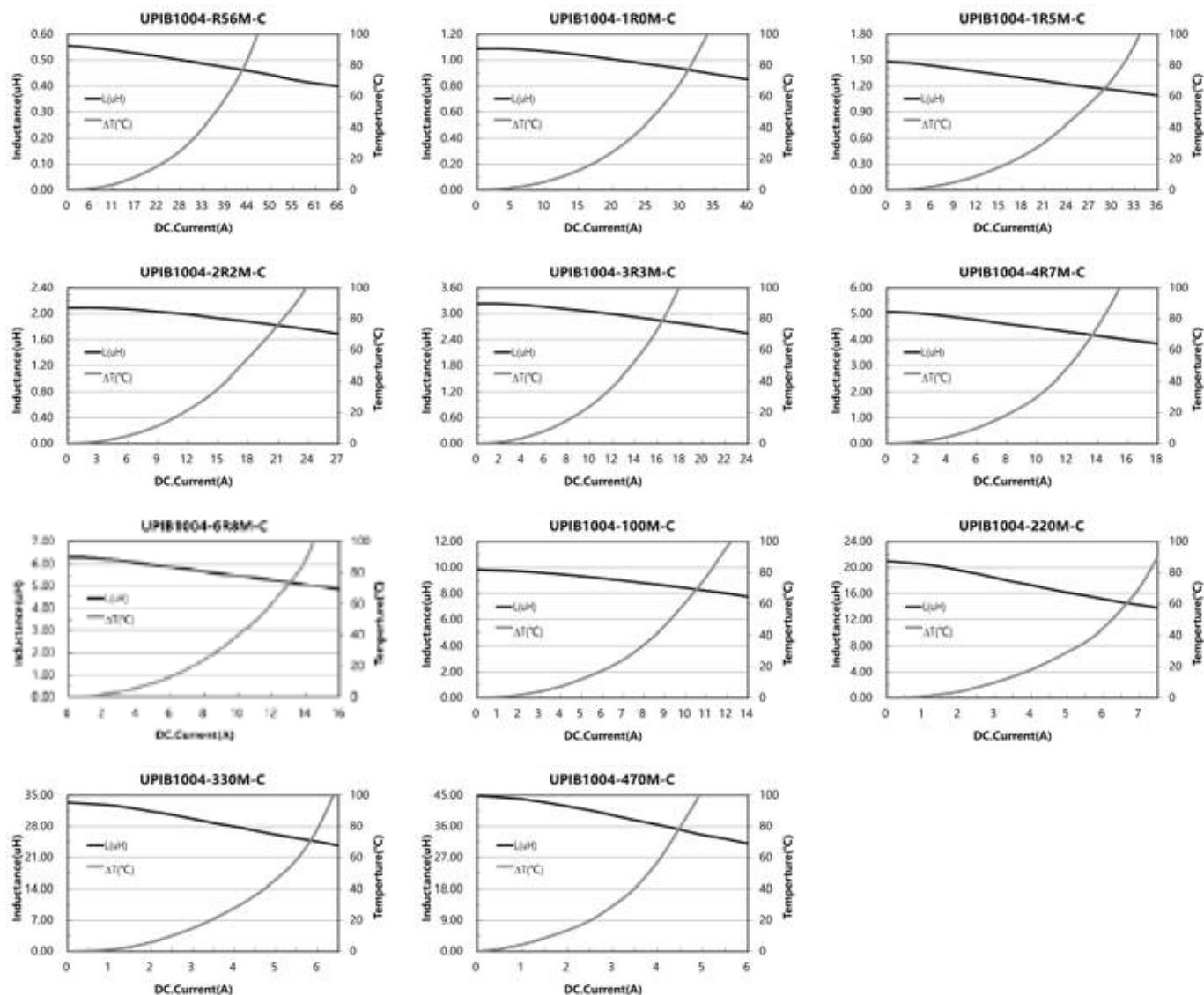


● UPIB 1004 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIB1004-R56M-C	0.56	1.51	1.80	55.0	25.0	3.0
UPIB1004-1R0M-C	1.0	2.75	3.50	40.0	20.0	3.0
UPIB1004-1R5M-C	1.5	3.85	4.20	33.0	16.0	3.0
UPIB1004-2R2M-C	2.2	7.09	9.00	26.0	12.0	3.0
UPIB1004-3R3M-C	3.3	10.9	12.0	23.0	10.0	3.0
UPIB1004-4R7M-C	4.7	15.5	16.5	17.0	9.5	3.0
UPIB1004-6R8M-C	6.8	20.5	23.3	15.0	8.0	3.0
UPIB1004-100M-C	10.0	28.4	36.5	14.0	6.8	3.0
UPIB1004-220M-C	22.0	60.6	66.0	7.0	5.0	3.0
UPIB1004-330M-C	33.0	93.2	105.0	6.5	4.1	3.0
UPIB1004-470M-C	47.0	145.0	167.0	4.5	3.0	3.0



Typical Performance curves:

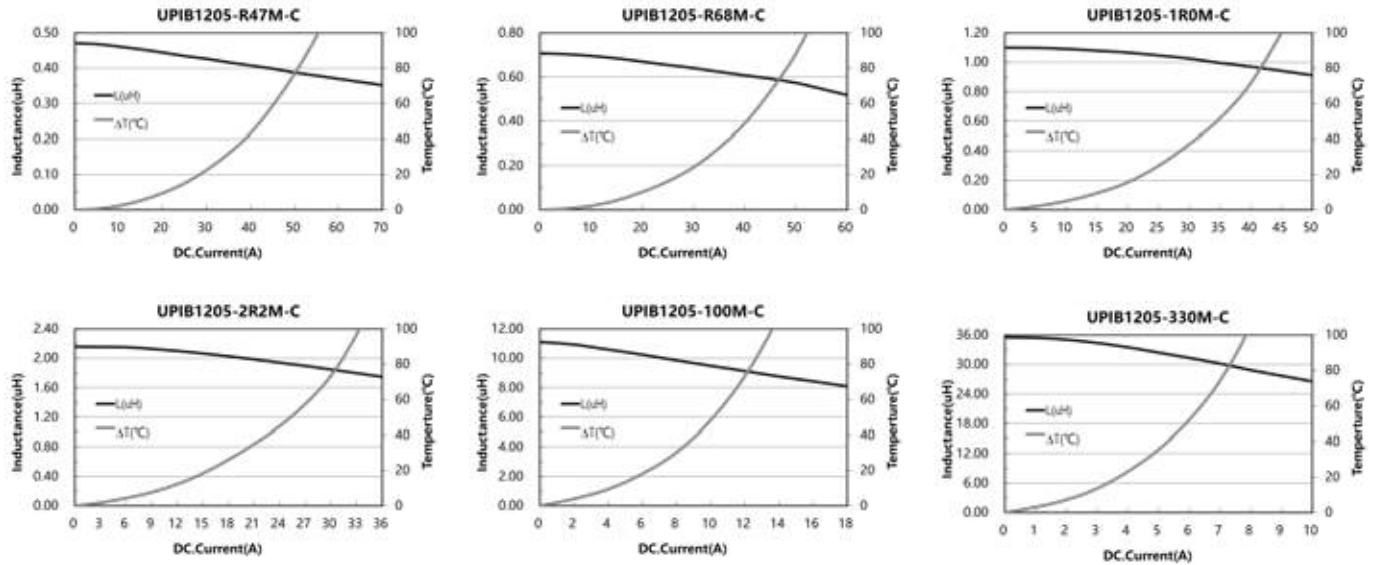


● UPIB 1205 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIB1205-R47M-C	0.47	1.14	1.50	65.0	35.0	3.0
UPIB1205-R68M-C	0.68	1.33	1.70	54.0	34.0	3.0
UPIB1205-1R0M-C	1.00	1.84	2.20	50.0	29.0	3.0
UPIB1205-2R2M-C	2.20	4.40	5.50	32.0	20.0	3.0
UPIB1205-100M-C	10.0	23.5	28.0	17.5	9.0	3.0
UPIB1205-330M-C	33.0	73.9	78.0	9.0	4.0	3.0



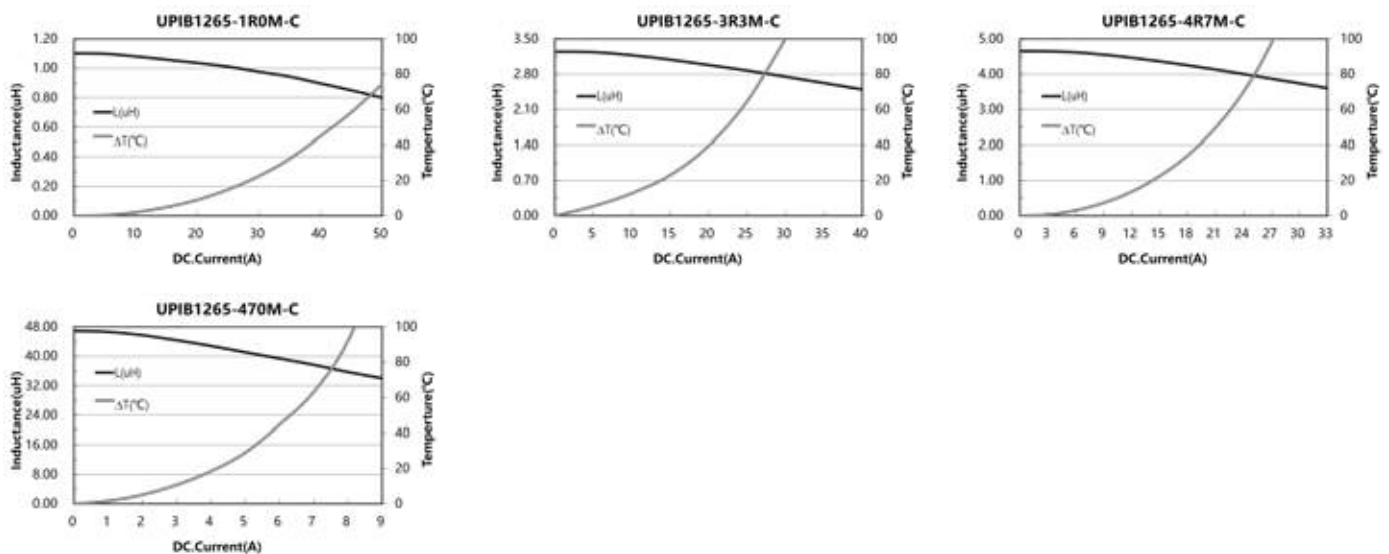
Typical performance curves :



● UPIB 1265 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIB1265-1R0M-C	1.0	1.59	2.00	46.0	35.0	3.0
UPIB1265-3R3M-C	3.3	4.35	5.20	40.0	20.0	3.0
UPIB1265-4R7M-C	4.7	5.97	7.20	32.0	18.0	3.0
UPIB1265-470M-C	47.0	74.2	90.0	9.0	4.5	3.0

Typical performance curves :

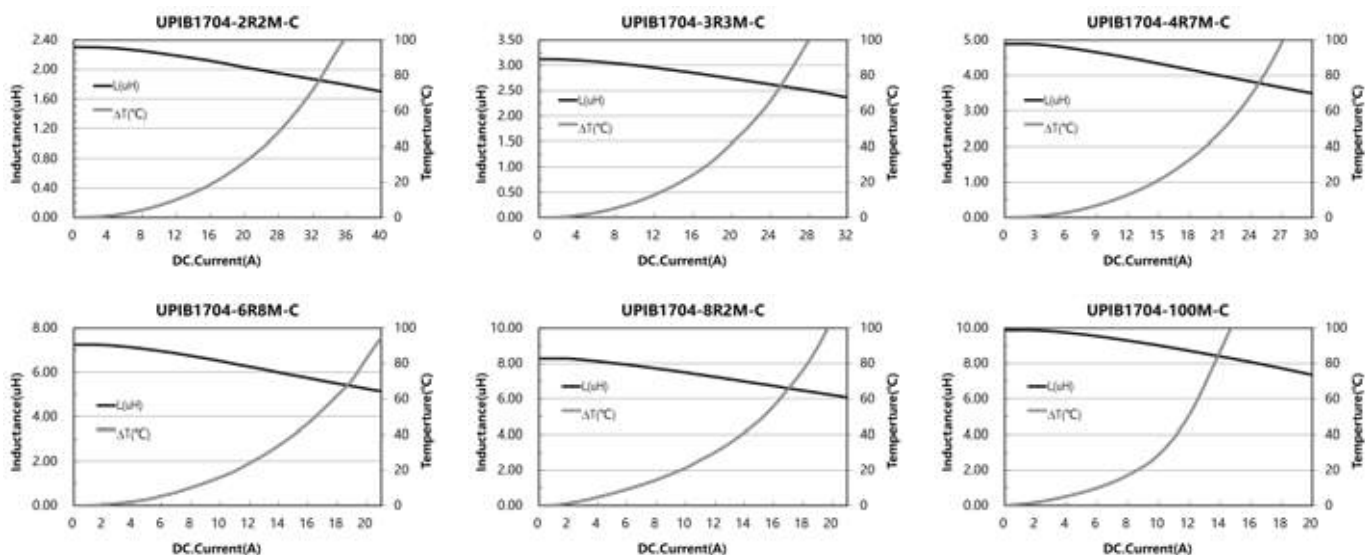




● UPIB1704 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIB1704-2R2M-C	2.2	5.73	6.40	40.0	19.0	12
UPIB1704-3R3M-C	3.3	7.70	9.51	31.0	18.5	12
UPIB1704-4R7M-C	4.7	10.01	11.2	27.0	16.0	12
UPIB1704-6R8M-C	6.8	14.70	16.0	21.0	13.2	12
UPIB1704-8R2M-C	8.2	16.50	17.6	20.0	11.5	12
UPIB1704-100M-C	10.0	22.70	25.6	19.5	10.5	12

Typical performance curves :

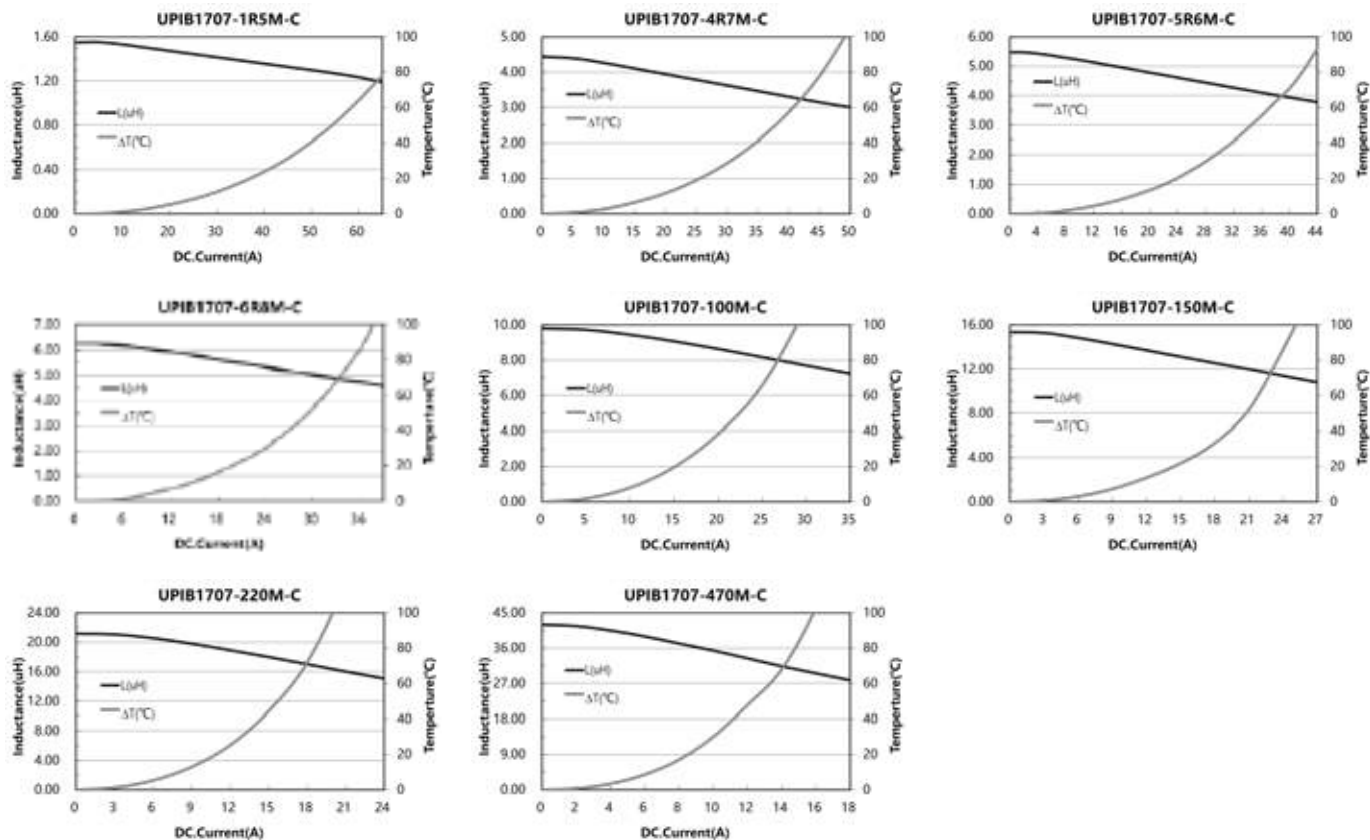


● UPIB1707 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIB1707-1R5M-C	1.5	1.77	1.88	65.0	42.0	12
UPIB1707-4R7M-C	4.7	3.42	4.50	41.0	30.0	12
UPIB1707-5R6M-C	5.6	4.20	5.60	40.0	28.0	12
UPIB1707-6R8M-C	6.8	5.40	7.50	32.0	19.0	12
UPIB1707-100M-C	10.0	8.85	12.0	29.0	17.0	12
UPIB1707-150M-C	15.0	17.84	19.9	25.0	12.5	12
UPIB1707-220M-C	22.0	24.43	26.5	23.0	11.0	12
UPIB1707-470M-C	47.0	34.77	45.0	13.0	9.0	12



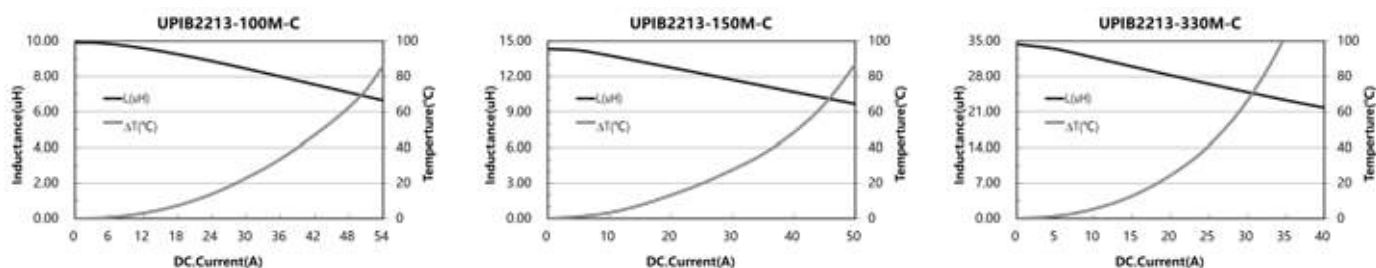
Typical performance curves :



● UPIB2213 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIB2213-100M-C	10.0	3.8	4.6	44.0	35.0	18.5
UPIB2213-150M-C	15.0	5.3	6.4	36.0	31.0	18.5
UPIB2213-330M-C	33.0	13.4	16.0	28.0	22.0	18.5

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



UPI F SERIES

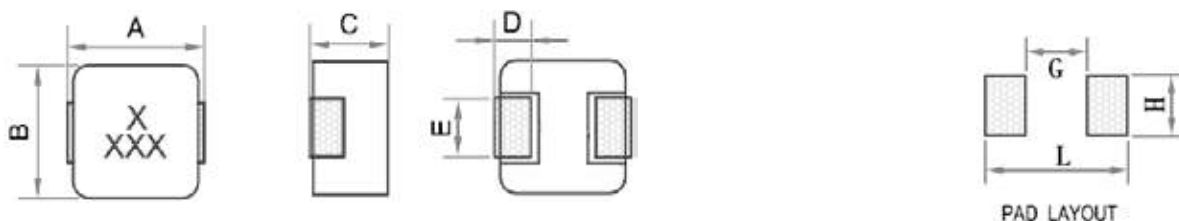
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

Applications:

- PDA/Notebook/Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).



Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	G	H	L
UPIF0603W	7.0±0.3	6.6±0.2	2.8±0.2	1.6±0.3	3.0±0.3	3.7	3.5	8.4
UPIF0804	8.6±0.3	8.0±0.25	3.8±0.2	1.8±0.3	By each	4.6	3.8	10.6
UPIF1004W	11.5MAX	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6
UPIF1005W	11.5MAX	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6
UPIF1205	13.4±0.5	12.6±0.3	4.8±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UPIF1265	13.4±0.5	12.6±0.3	6.3±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UPIF1704	17.3±0.5	17.0±0.3	3.8±0.2	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UPIF1707	17.3±0.5	17.0±0.3	6.7±0.3	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UPIF2213	23.0±0.5	22.0±0.5	12.5±0.5	5.0±0.4	18.5±0.3	12.2	19.6	23.8

Features :

- Low profile and low DCR.
- Shielded construction.
- handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.
- RoHS compliant.

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately $\Delta T=40^\circ\text{C}$ without core Loss.
- Operating Temperature : -55°C to 125°C .

Product Identification:

UPI F 0603W - 2R2 M
 (1) (2) (3) (4) (5)

- (1) Series : **Ultra High Current SMT Power Inductors.**
- (2) Style : **F-Powder Type.**
- (3) Dimensions : **0603** is size.
- (4) Inductance: **2R2** for **2.2** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Test equipments:

- L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C .

Handling and precautions:

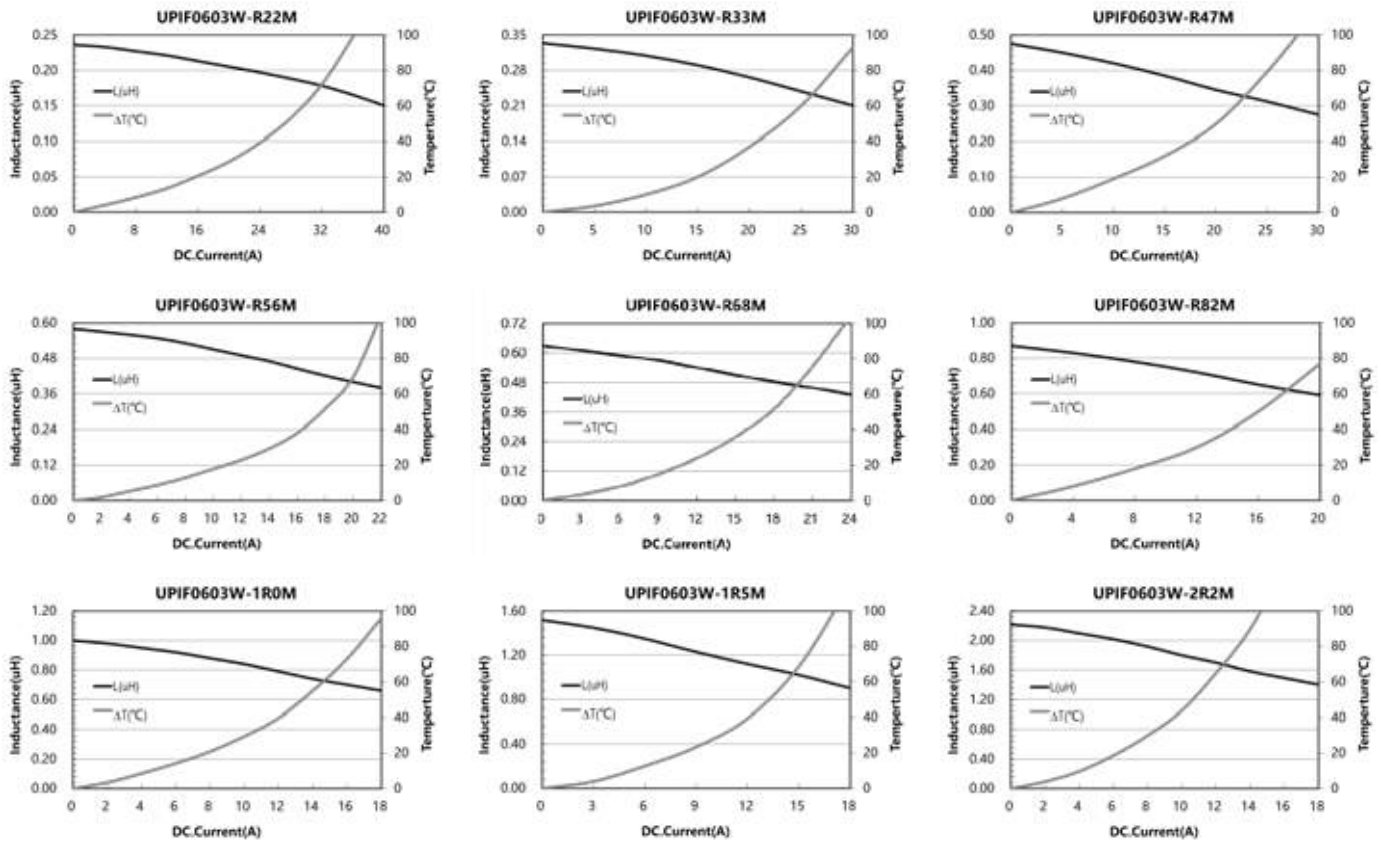
- Please contact us before cleaning this product.



● UPIF0603W series

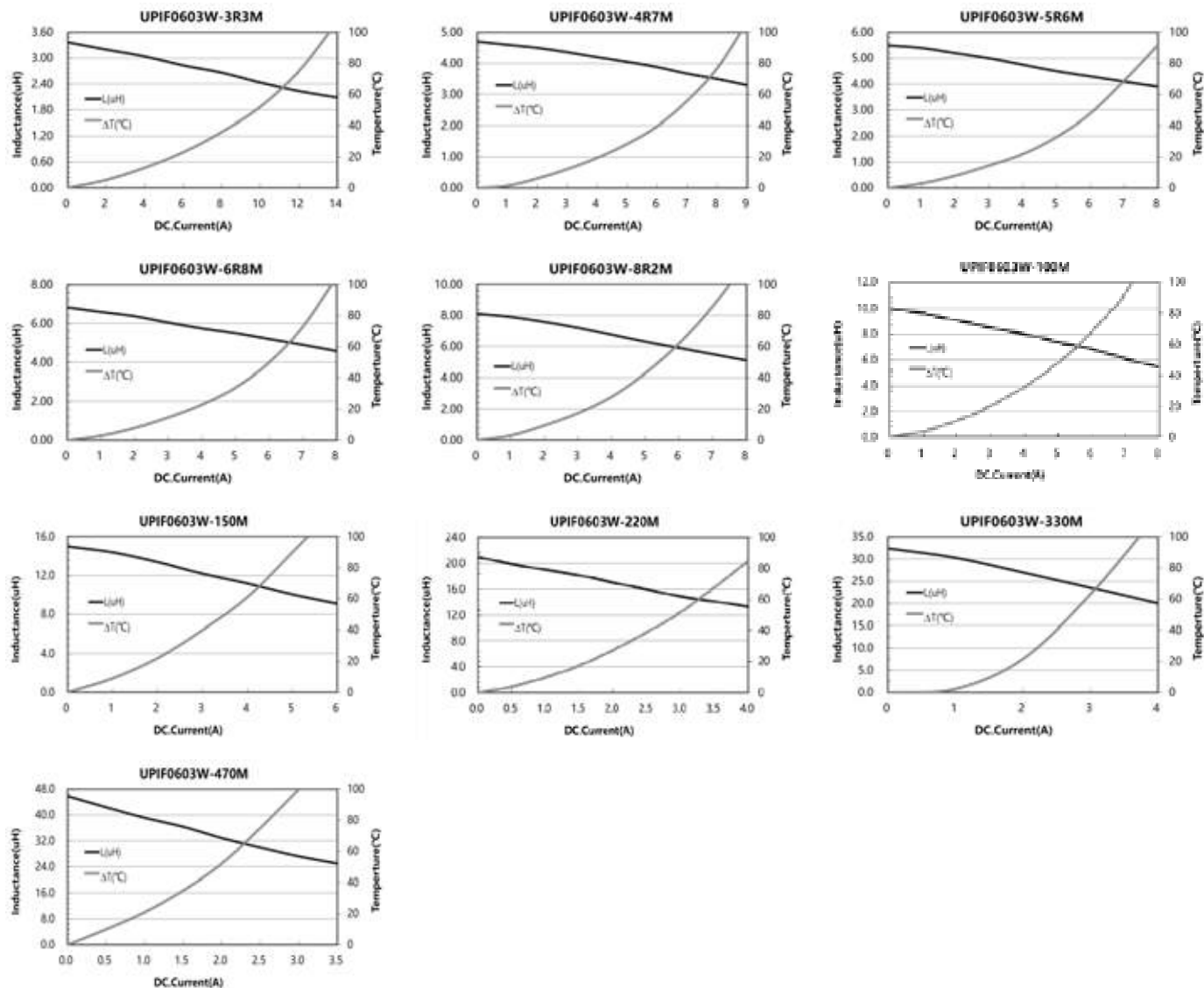
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.5
		Typical	Maximum			
UPIF0603W-R22M	0.22	2.5	3.0	34.0	24.0	3.0
UPIF0603W-R33M	0.33	3.0	3.5	25.0	21.0	3.0
UPIF0603W-R47M	0.47	3.5	4.1	20.0	18.0	3.0
UPIF0603W-R56M	0.56	3.8	4.5	18.0	16.5	3.0
UPIF0603W-R68M	0.68	4.5	5.3	17.0	16.0	3.0
UPIF0603W-R82M	0.82	5.1	6.0	16.0	14.0	3.0
UPIF0603W-1R0M	1.0	6.4	7.4	15.0	12.0	3.0
UPIF0603W-1R5M	1.5	10.1	12.1	12.0	12.0	3.0
UPIF0603W-2R2M	2.2	13.2	15.0	10.0	9.5	3.0
UPIF0603W-3R3M	3.3	19.1	22.0	9.5	8.5	3.0
UPIF0603W-4R7M	4.7	29.4	33.0	9.0	6.0	3.0
UPIF0603W-5R6M	5.6	36.8	42.0	6.5	5.5	3.0
UPIF0603W-6R8M	6.8	44.0	48.0	6.0	5.0	3.0
UPIF0603W-8R2M	8.2	56.0	60.0	5.5	5.0	3.0
UPIF0603W-100M	10.0	60.0	68.0	5.5	4.5	3.0
UPIF0603W-150M	15.0	100	113	4.0	3.0	3.0
UPIF0603W-220M	22.0	138	170	3.0	2.5	3.0
UPIF0603W-330M	33.0	183	270	2.5	2.0	3.0
UPIF0603W-470M	47.0	354	385	2.0	1.5	3.0

Typical performance curves :





Typical performance curves :

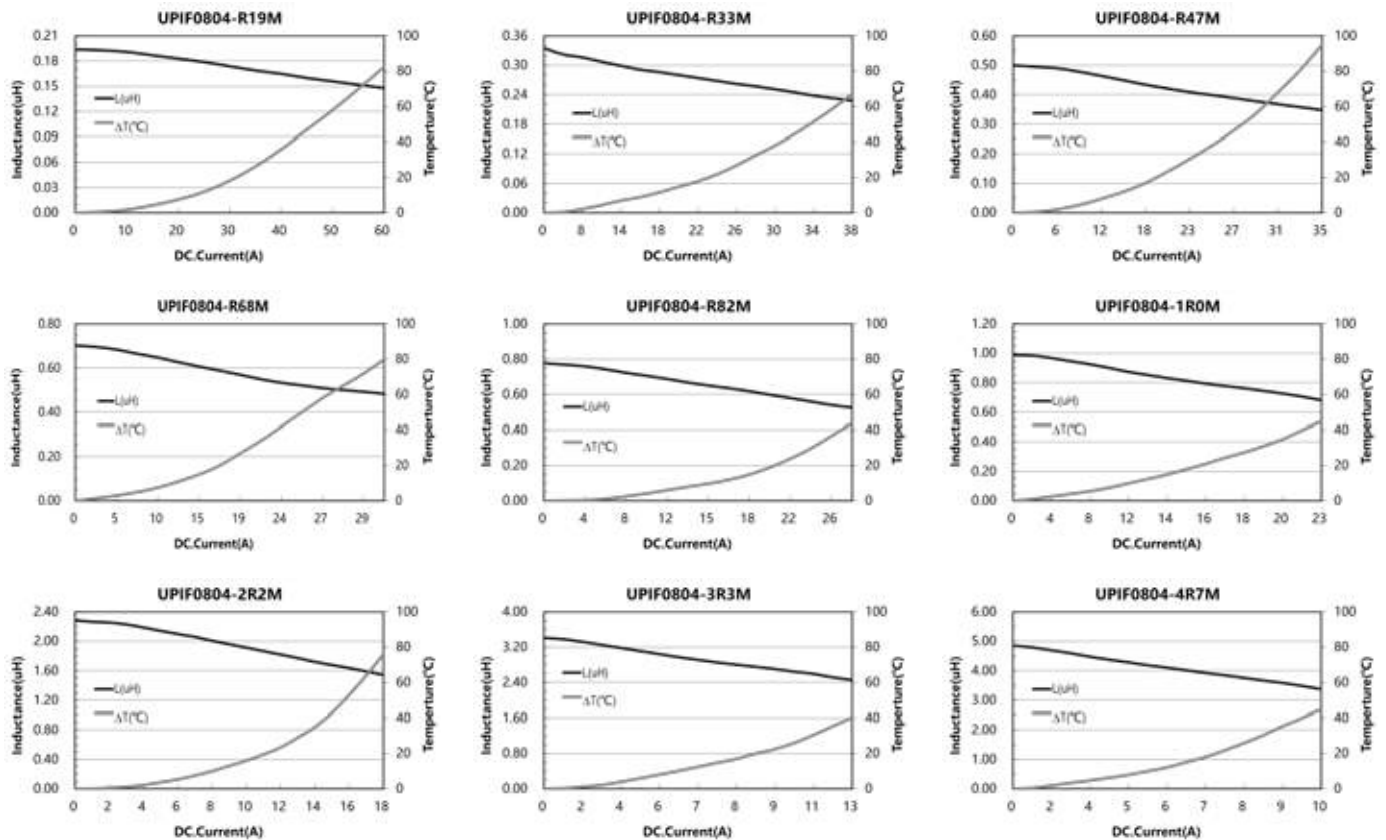




● **UPIF0804 series**

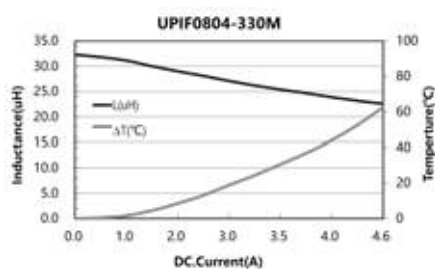
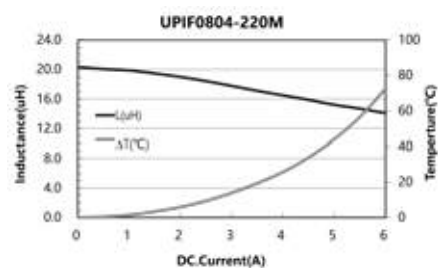
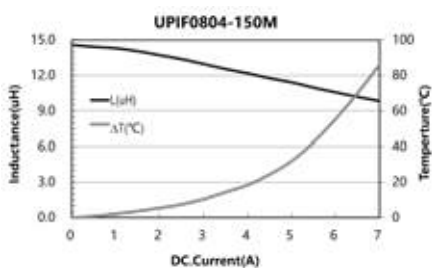
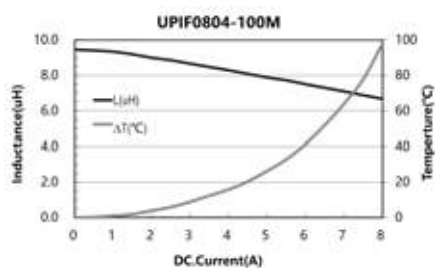
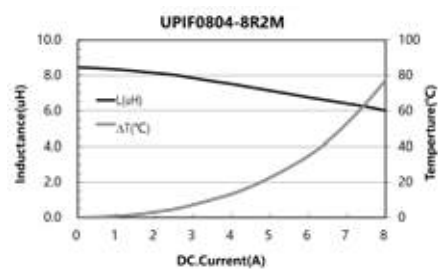
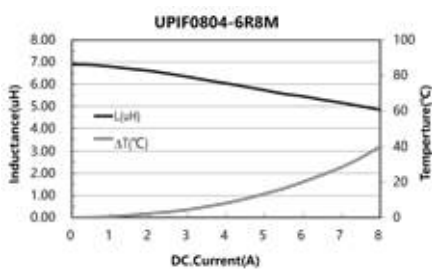
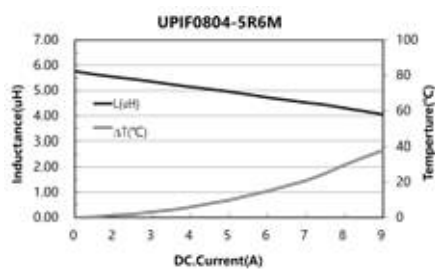
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF0804-R19M	0.19	1.18	1.35	22.0	34.0	3.0
UPIF0804-R33M	0.33	1.60	2.15	16.0	27.5	3.0
UPIF0804-R47M	0.47	2.22	2.38	14.0	25.0	3.0
UPIF0804-R68M	0.68	2.90	3.22	14.5	22.2	3.0
UPIF0804-R82M	0.82	2.81	3.88	15.0	19.5	3.0
UPIF0804-1R0M	1.0	4.03	4.63	12.0	18.2	3.2
UPIF0804-2R2M	2.2	8.80	9.41	10.2	14.5	3.2
UPIF0804-3R3M	3.3	12.45	14.90	9.7	10.5	3.2
UPIF0804-4R7M	4.7	19.80	22.60	8.7	8.0	3.2
UPIF0804-5R6M	5.6	24.53	28.60	7.6	7.4	3.2
UPIF0804-6R8M	6.8	28.34	33.40	6.7	7.0	3.2
UPIF0804-8R2M	8.2	39.64	45.00	6.6	5.7	3.2
UPIF0804-100M	10.0	44.15	51.80	6.4	5.4	3.2
UPIF0804-150M	15.0	53.50	65.30	3.7	4.9	3.2
UPIF0804-220M	22.0	70.47	94.20	3.3	4.3	3.2
UPIF0804-330M	33.0	114.78	144.00	3.2	3.2	3.2

Typical performance curves :





Typical performance curves :

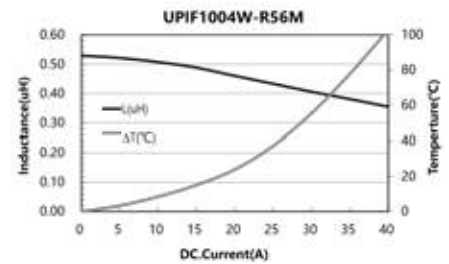
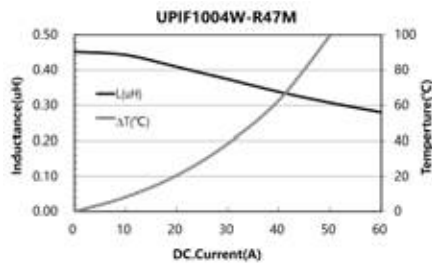
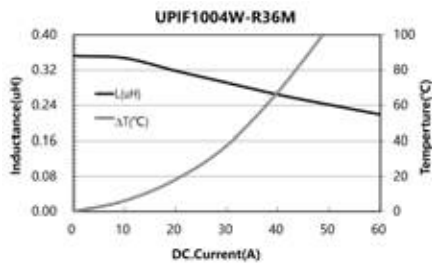
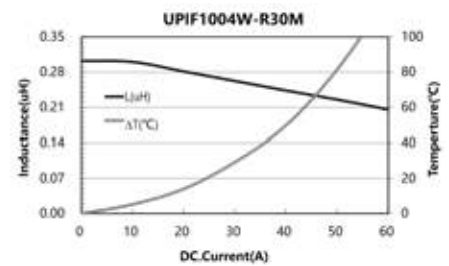
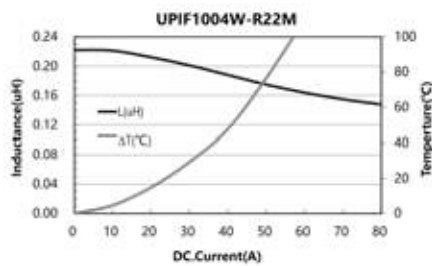
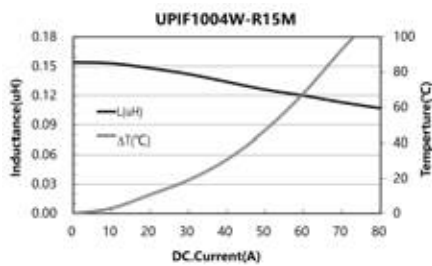




● **UPIF1004W series**

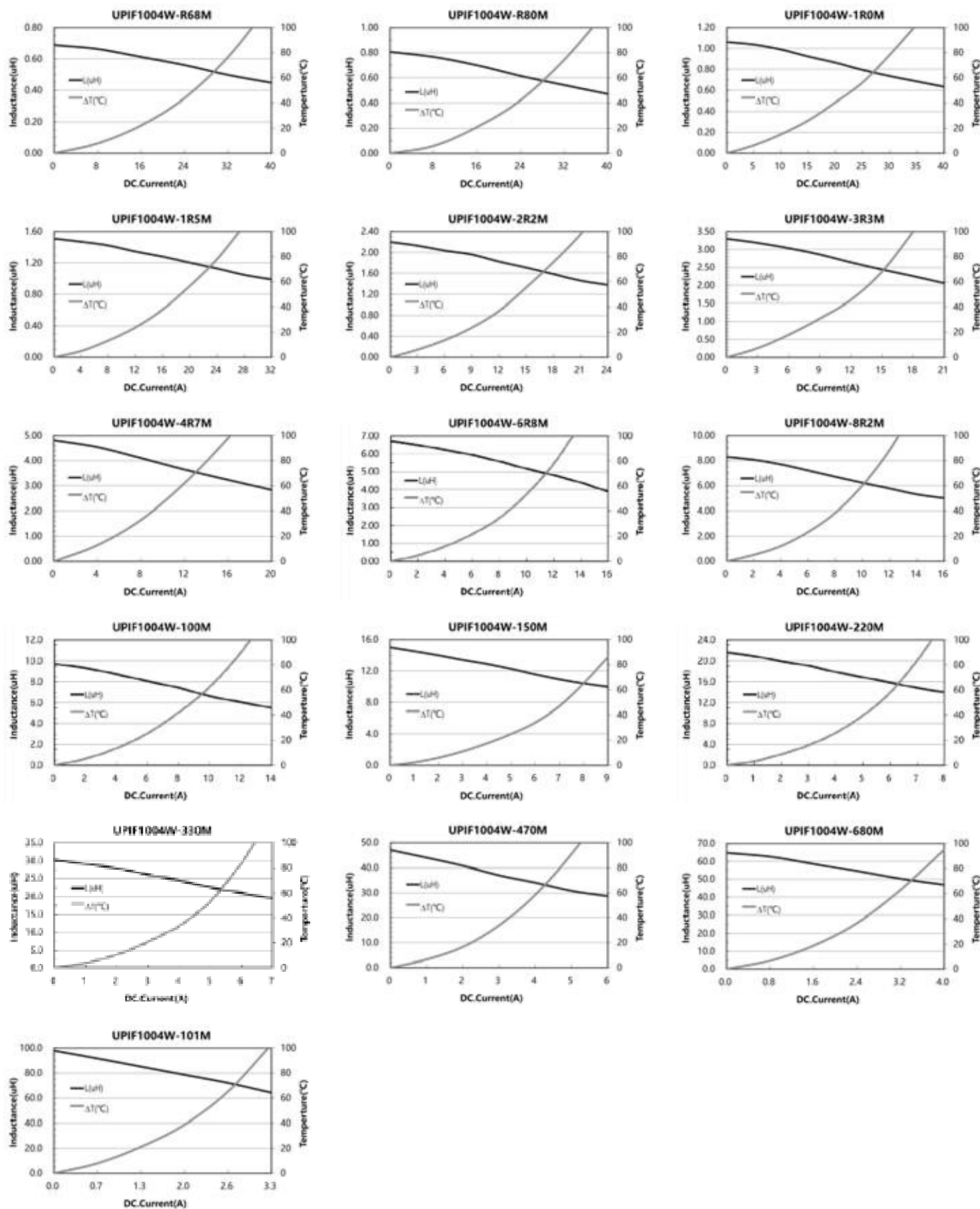
Part No.	Inductance @100kHz L_0 (μ H)	DCR (m Ω)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1004W-R15M	0.15	0.52	0.65	75.0	45.0	3.0
UPIF1004W-R22M	0.22	0.87	1.00	60.0	35.0	3.0
UPIF1004W-R30M	0.30	0.95	1.10	45.0	35.0	3.0
UPIF1004W-R36M	0.36	1.07	1.20	45.0	30.0	3.0
UPIF1004W-R47M	0.47	1.56	1.70	40.0	30.0	3.0
UPIF1004W-R56M	0.56	1.64	1.80	33.0	25.0	3.0
UPIF1004W-R68M	0.68	2.10	2.40	30.0	23.0	3.0
UPIF1004W-R80M	0.80	2.50	2.70	29.0	23.0	3.0
UPIF1004W-1R0M	1.0	2.90	3.30	28.0	19.0	3.0
UPIF1004W-1R5M	1.5	3.70	4.20	24.0	16.0	3.0
UPIF1004W-2R2M	2.2	5.80	7.00	16.5	12.0	3.0
UPIF1004W-3R3M	3.3	10.0	11.8	16.0	11.0	3.0
UPIF1004W-4R7M	4.7	17.3	20.0	13.0	9.0	3.0
UPIF1004W-6R8M	6.8	22.5	25.0	12.0	8.5	3.0
UPIF1004W-8R2M	8.2	24.7	27.0	9.0	8.0	3.0
UPIF1004W-100M	10.0	26.8	30.0	8.5	7.8	3.0
UPIF1004W-150M	15.0	39.0	45.0	7.0	6.5	3.0
UPIF1004W-220M	22.0	56.7	66.0	5.5	5.0	3.0
UPIF1004W-330M	33.0	78.0	92.0	4.8	4.4	3.0
UPIF1004W-470M	47.0	125	145	3.5	3.3	3.0
UPIF1004W-680M	68.0	167	195	3.0	2.5	3.0
UPIF1004W-101M	100	290	340	2.5	2.0	3.0

Typical performance curves :





Typical performance curves :

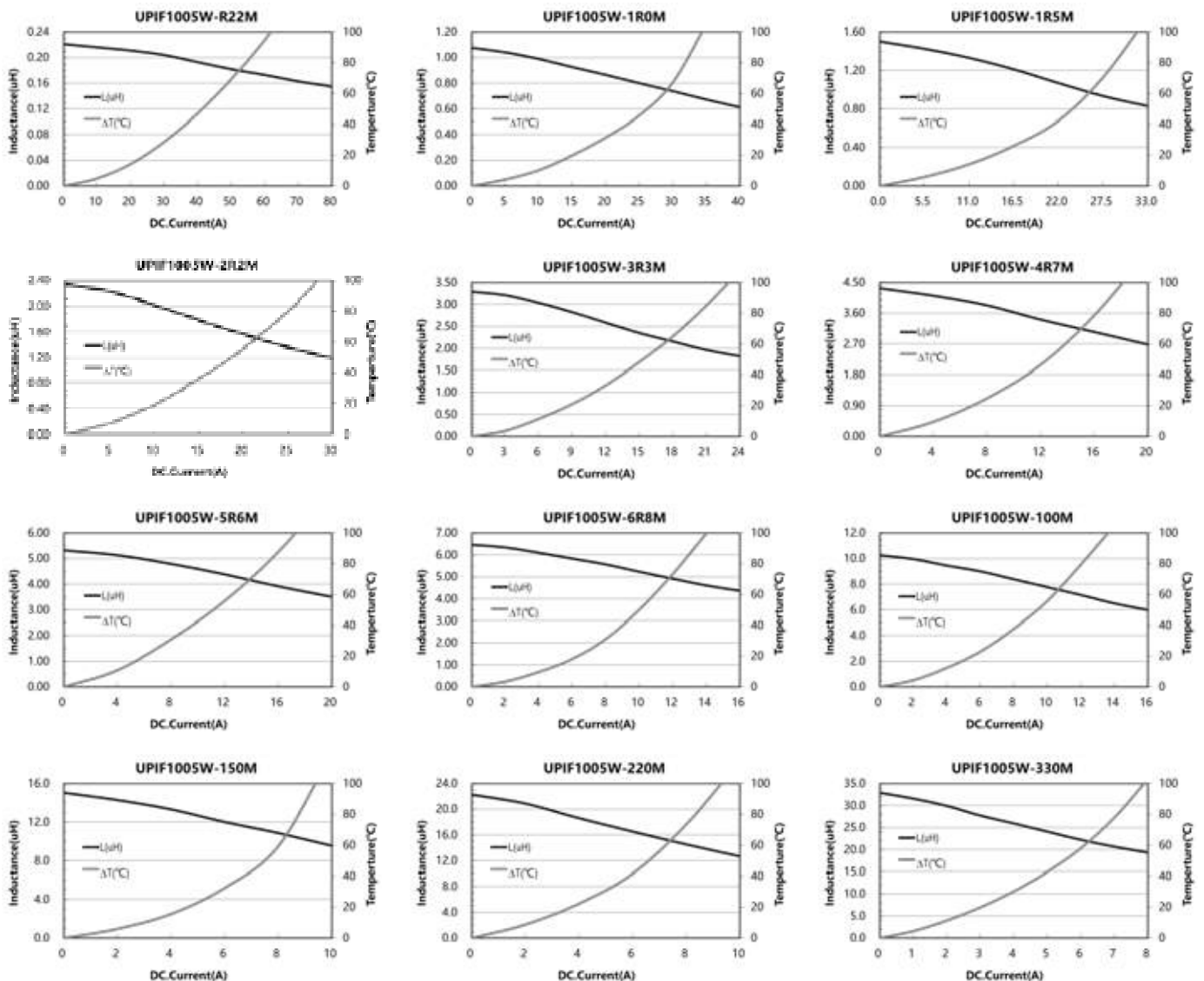




● **UPIF1005W Series**

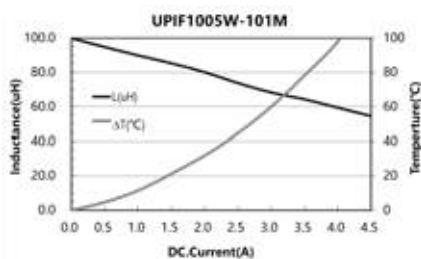
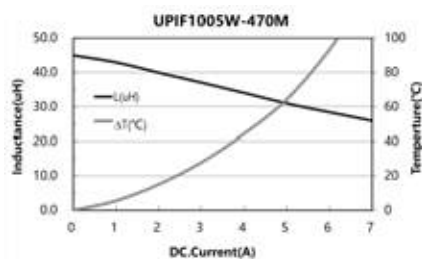
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UPIF1005W-R22M	0.22	0.68	0.80	65.0	37.0	3.0
UPIF1005W-1R0M	1.0	2.6	3.0	30.0	23.0	3.0
UPIF1005W-1R5M	1.5	3.2	3.8	25.0	21.0	3.0
UPIF1005W-2R2M	2.2	4.5	6.0	19.0	15.0	3.0
UPIF1005W-3R3M	3.3	8.4	10.0	16.0	13.0	3.0
UPIF1005W-4R7M	4.7	12.5	14.0	15.0	11.0	3.0
UPIF1005W-5R6M	5.6	14.5	17.0	14.0	9.5	3.0
UPIF1005W-6R8M	6.8	16.4	18.5	14.0	9.0	3.0
UPIF1005W-100M	10.0	23.5	28.0	10.0	8.0	3.0
UPIF1005W-150M	15.0	34.7	42.0	7.5	6.5	3.0
UPIF1005W-220M	22.0	45.0	50.0	6.0	5.5	3.0
UPIF1005W-330M	33.0	73.4	86.0	5.2	4.8	3.0
UPIF1005W-470M	47.0	115.4	127.0	4.5	3.7	3.0
UPIF1005W-101M	100	267.0	290.0	2.8	2.1	3.0

Typical performance curves:





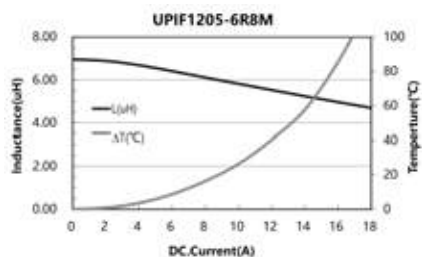
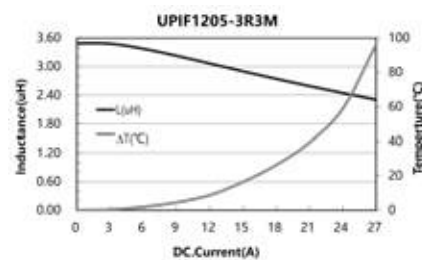
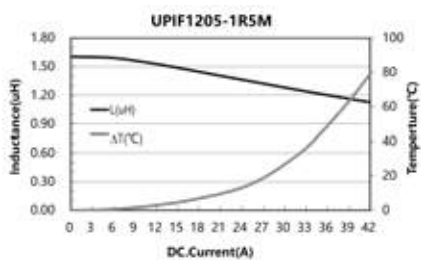
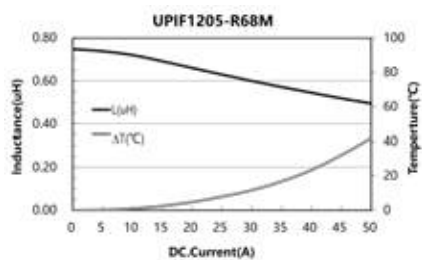
Typical performance curves:



● UPIF1205 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1205-R68M	0.68	1.52	1.70	35.0	34.0	3.0
UPIF1205-1R5M	1.5	2.68	3.50	30.0	25.0	3.0
UPIF1205-3R3M	3.3	8.37	9.20	22.0	15.0	3.0
UPIF1205-6R8M	6.8	14.29	18.50	14.0	11.0	3.0

Typical performance curves :

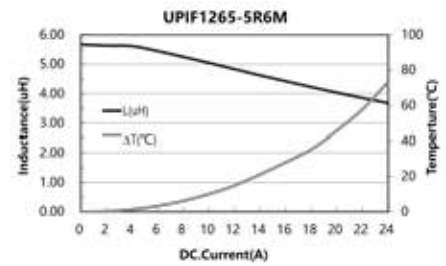
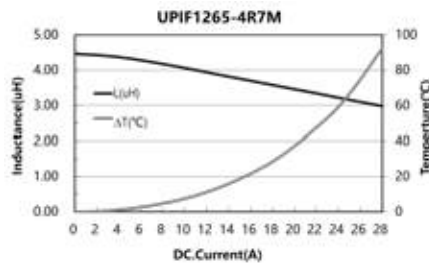
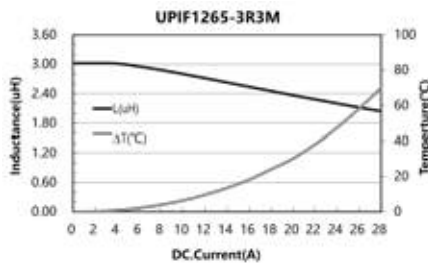




● UPIF1265 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1265-3R3M	3.3	4.46	5.50	22.0	20.0	3.0
UPIF1265-4R7M	4.7	6.06	7.50	21.0	18.0	3.0
UPIF1265-5R6M	5.6	6.92	9.00	18.0	16.0	3.0

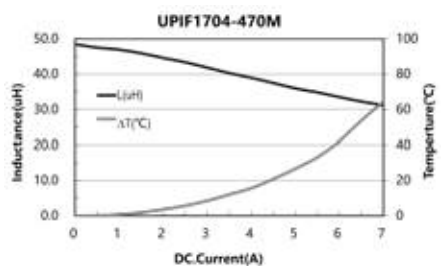
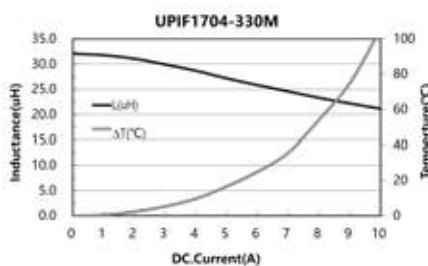
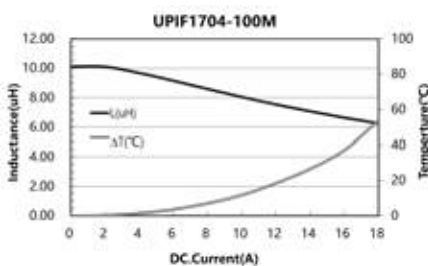
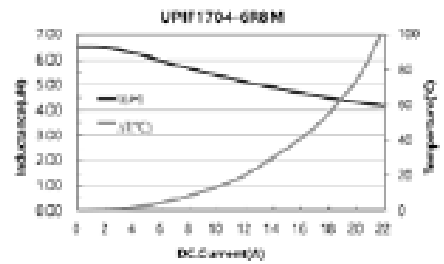
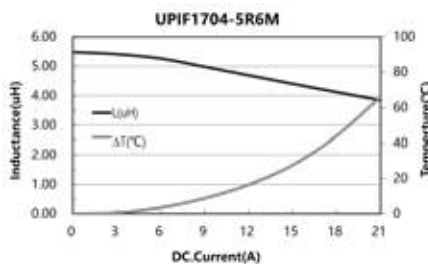
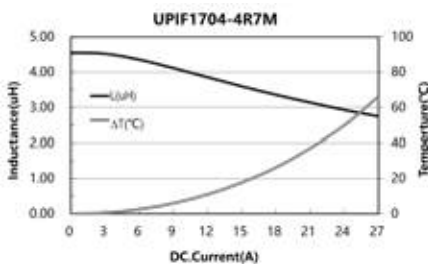
Typical performance curves :



● UPIF1704 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1704-4R7M	4.7	8.60	9.32	16.0	18.0	12.0
UPIF1704-5R6M	5.6	11.53	12.20	14.0	15.0	12.0
UPIF1704-6R8M	6.8	12.98	13.79	12.0	14.5	12.0
UPIF1704-100M	10.0	16.90	18.90	12.0	12.0	12.0
UPIF1704-330M	33.0	65.60	70.84	6.0	6.5	12.0
UPIF1704-470M	47.0	89.50	108.5	5.0	5.0	12.0

Typical performance curves :

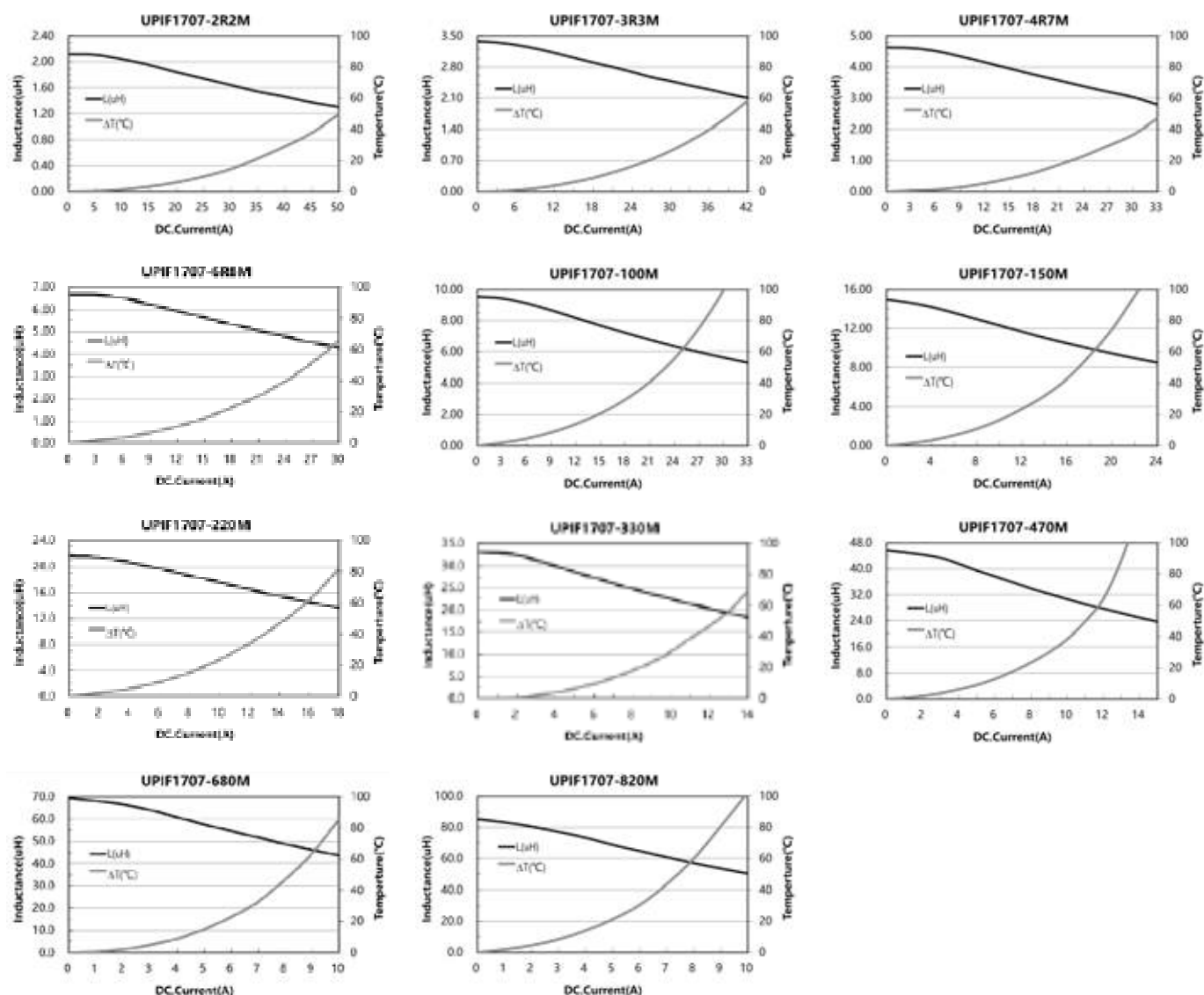




● UPIF1707 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF1707-2R2M	2.2	1.78	1.98	31.0	43.5	12.0
UPIF1707-3R3M	3.3	2.65	2.93	27.0	35.0	12.0
UPIF1707-4R7M	4.7	4.00	4.18	23.0	30.0	12.0
UPIF1707-6R8M	6.8	5.56	6.15	21.0	22.5	12.0
UPIF1707-100M	10.0	7.88	9.33	17.0	19.0	12.0
UPIF1707-150M	15.0	13.8	14.4	14.0	14.0	12.0
UPIF1707-220M	22.0	19.9	21.0	11.5	12.0	12.0
UPIF1707-330M	33.0	31.0	37.0	9.0	10.7	12.0
UPIF1707-470M	47.0	36.0	42.7	8.6	8.7	12.0
UPIF1707-680M	68.0	70.22	75.70	7.0	6.1	12.0
UPIF1707-820M	82.0	78.04	91.70	6.2	5.5	12.0

Typical performance curves :

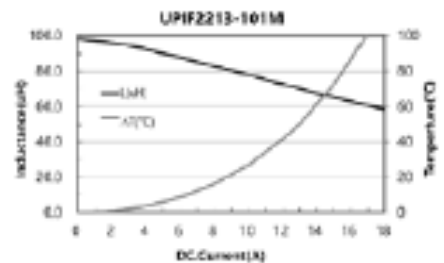
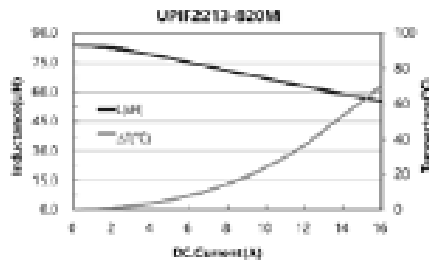
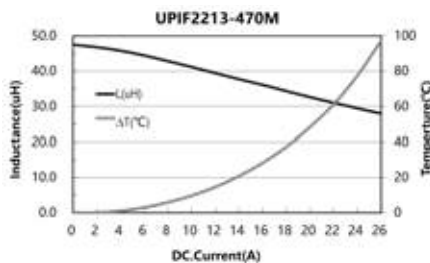
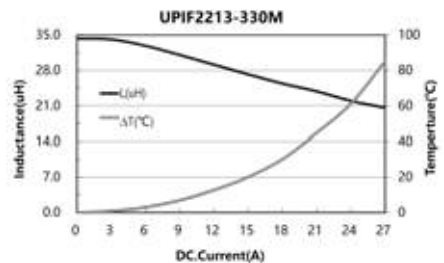
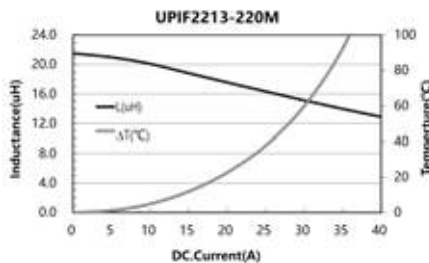
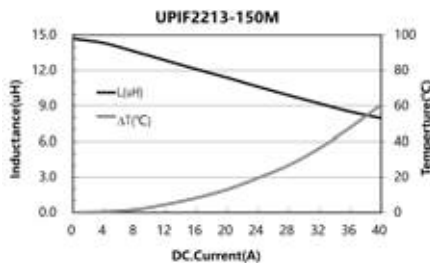
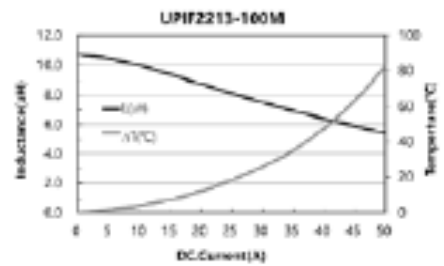
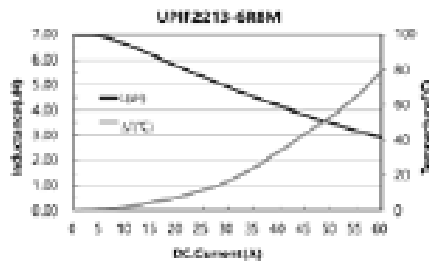
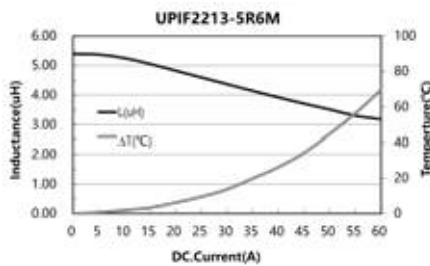




UPIF2213 series

Part No.	Inductance @100kHz L_0 (μ H)	DCR ($m\Omega$)		I sat (A) Typ.	I rms (A) Typ.	E mm ± 0.5
		Typical	Maximum			
UPIF2213-5R6M	5.6	2.06	2.30	38.0	40.0	18.5
UPIF2213-6R8M	6.8	2.52	3.09	36.0	36.0	18.5
UPIF2213-100M	10.0	3.57	4.14	28.0	28.0	18.5
UPIF2213-150M	15.0	4.89	6.11	24.0	23.5	18.5
UPIF2213-220M	22.0	8.50	10.80	22.0	20.0	18.5
UPIF2213-330M	33.0	13.50	15.40	17.0	15.0	18.5
UPIF2213-470M	47.0	15.90	17.70	15.0	15.0	18.5
UPIF2213-820M	82.0	30.57	34.20	12.0	10.2	18.5
UPIF2213-101M	100	37.80	40.00	10.0	9.5	18.5

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDR SERIES

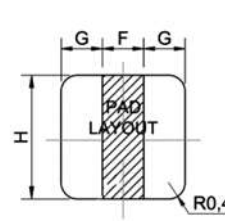
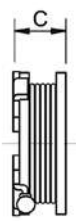
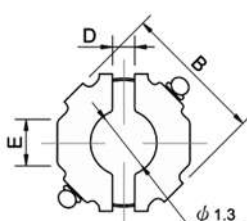
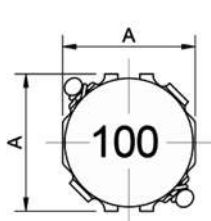
UNSHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BDR2D10	3.0±0.2	3.2	1.0	0.5	1.0
BDR2D12	3.0±0.2	3.2	1.2	0.5	1.0
BDR2D15	3.0±0.2	3.2	1.5	0.5	1.0

Item	F	G	H
BDR2D10	1.0	1.0	3.0
BDR2D12	1.0	1.0	3.0
BDR2D15	1.0	1.0	3.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically unshielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value.
(Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. ΔT=40°C.
(Ta=20°C)
- Operating temperature : -40°C to 105°C.

Product identification :

BDR2D10 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core.

2D is 3.0mm square and **10** is about 1.0mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **M**: ± 20%.

Test equipments :

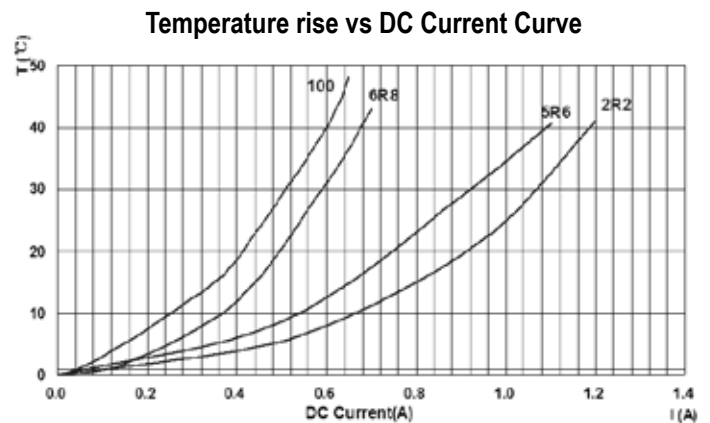
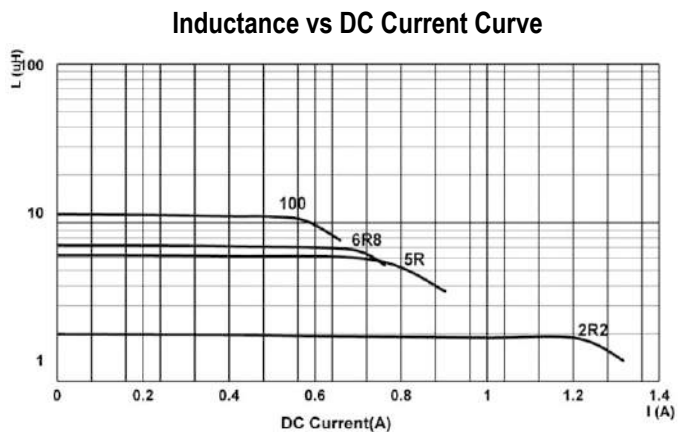
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.



● **BDR 2D10 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR2D10-1R0M	1.0	20	100 KHz	91 (70)	1.50	1.90	1.70
BDR2D10-1R2M	1.2	20	100 KHz	104 (80)	1.30	1.80	1.60
BDR2D10-2R2M	2.2	20	100 KHz	187 (150)	1.00	1.30	1.50
BDR2D10-3R3M	3.3	20	100 KHz	287 (230)	0.80	1.10	1.40
BDR2D10-3R9M	3.9	20	100 KHz	312 (250)	0.70	1.00	1.30
BDR2D10-4R7M	4.7	20	100 KHz	400 (320)	0.65	0.90	1.20
BDR2D10-5R6M	5.6	20	100 KHz	475 (380)	0.60	0.85	1.05
BDR2D10-6R8M	6.8	20	100 KHz	537 (430)	0.55	0.72	1.00
BDR2D10-8R2M	8.2	20	100 KHz	662 (530)	0.50	0.68	0.90
BDR2D10-100M	10.0	20	100 KHz	781 (625)	0.46	0.65	0.80
BDR2D10-120M	12.0	20	100 KHz	843 (675)	0.43	0.60	0.75
BDR2D10-150M	15.0	20	100 KHz	1200 (960)	0.38	0.50	0.70

Typical performance curves :



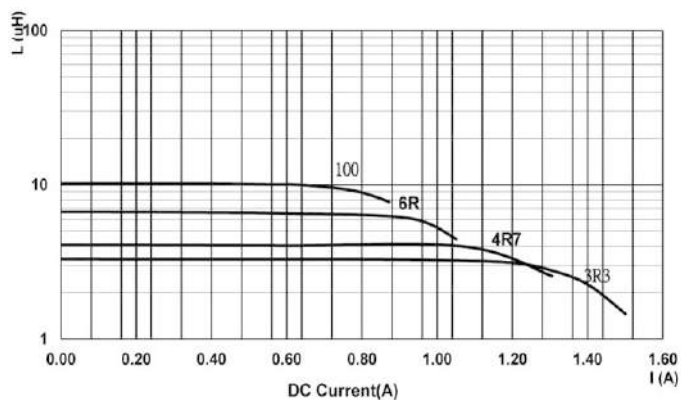


● BDR 2D12 series

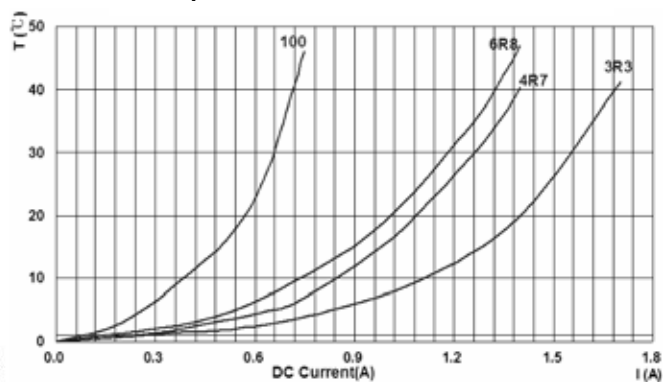
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR2D12-1R2M	1.2	20	100 KHz	78 (63)	2.10	2.40	1.59
BDR2D12-1R5M	1.5	20	100 KHz	93 (74)	1.70	2.00	1.47
BDR2D12-2R2M	2.2	20	100 KHz	118 (95)	1.60	1.70	1.20
BDR2D12-2R7M	2.7	20	100 KHz	156 (125)	1.30	1.50	1.09
BDR2D12-3R3M	3.3	20	100 KHz	175 (140)	1.20	1.40	1.03
BDR2D12-3R9M	3.9	20	100 KHz	212 (170)	1.10	1.30	0.94
BDR2D12-4R7M	4.7	20	100 KHz	275 (220)	1.00	1.20	0.82
BDR2D12-5R6M	5.6	20	100 KHz	312 (250)	0.85	1.10	0.77
BDR2D12-6R8M	6.8	20	100 KHz	350 (280)	0.80	1.00	0.71
BDR2D12-8R2M	8.2	20	100 KHz	556 (445)	0.75	0.92	0.60
BDR2D12-100M	10.0	20	100 KHz	650 (520)	0.70	0.78	0.55
BDR2D12-120M	12.0	20	100 KHz	718 (575)	0.65	0.72	0.52
BDR2D12-150M	15.0	20	100 KHz	781 (625)	0.60	0.65	0.48
BDR2D12-180M	18.0	20	100 KHz	1068 (855)	0.55	0.58	0.41
BDR2D12-220M	22.0	20	100 KHz	1262 (1010)	0.50	0.55	0.38
BDR2D12-270M	27.0	20	100 KHz	1812 (1450)	0.42	0.46	0.33

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



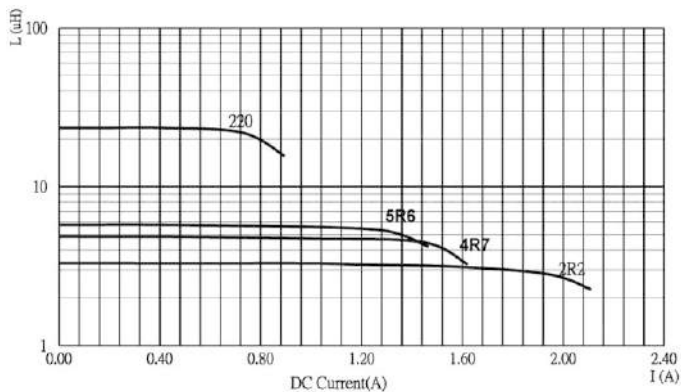


● **BDR 2D15 series**

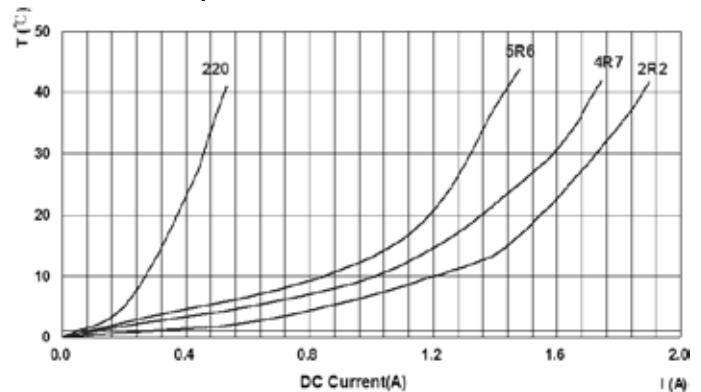
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR2D15-1R2M	1.2	20	100 KHz	88 (70)	2.30	2.60	1.90
BDR2D15-1R5M	1.5	20	100 KHz	100 (80)	2.00	2.40	1.80
BDR2D15-2R2M	2.2	20	100 KHz	119 (95)	1.70	2.10	1.60
BDR2D15-2R7M	2.7	20	100 KHz	144 (115)	1.60	1.90	1.50
BDR2D15-3R3M	3.3	20	100 KHz	156 (125)	1.50	1.80	1.40
BDR2D15-3R9M	3.9	20	100 KHz	169 (135)	1.30	1.70	1.30
BDR2D15-4R7M	4.7	20	100 KHz	225 (180)	1.20	1.50	1.20
BDR2D15-5R6M	5.6	20	100 KHz	250 (200)	1.10	1.40	1.05
BDR2D15-6R8M	6.8	20	100 KHz	300 (240)	1.00	1.30	1.00
BDR2D15-8R2M	8.2	20	100 KHz	325 (260)	0.90	1.10	0.95
BDR2D15-100M	10.0	20	100 KHz	437 (350)	0.85	1.00	0.90
BDR2D15-120M	12.0	20	100 KHz	487 (390)	0.75	0.90	0.70
BDR2D15-150M	15.0	20	100 KHz	700 (560)	0.65	0.80	0.60
BDR2D15-180M	18.0	20	100 KHz	938 (750)	0.60	0.75	0.55
BDR2D15-220M	22.0	20	100 KHz	1050 (840)	0.55	0.70	0.50
BDR2D15-270M	27.0	20	100 KHz	1312 (1050)	0.50	0.58	0.45
BDR2D15-330M	33.0	20	100 KHz	1562 (1250)	0.45	0.52	0.40
BDR2D15-390M	39.0	20	100 KHz	1750 (1400)	0.40	0.48	0.37

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDR SERIES

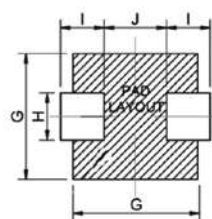
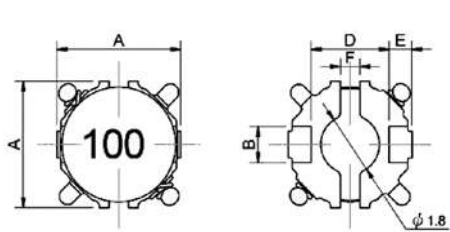
UNSHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BDR3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6
BDR3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6
BDR3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6

Item	G	H	I	J
BDR3D12	4.0	1.5	1.4	2.0
BDR3D12	4.0	1.5	1.4	2.0
BDR3D12	4.0	1.5	1.4	2.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically unshielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature : -40°C to 105 °C.

Product identification :

BDR3D12 – 4R7 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core 3D is 3.8mm square and 12 is about 1.2mm height.

(2) Inductance : **4R7** for 4.7 uH.

(3) Inductance tolerance : **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

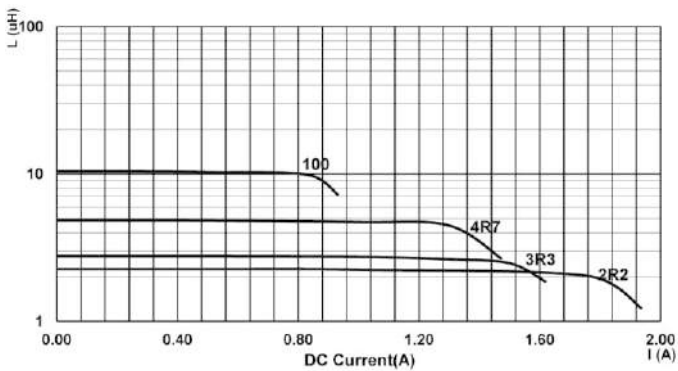


● **BDR 3D12 series**

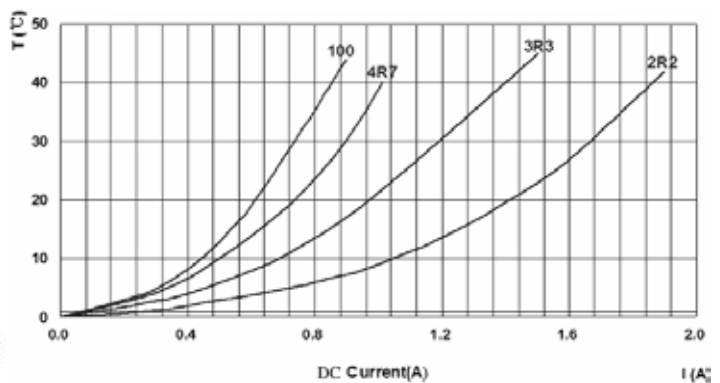
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR3D12-1R0M	1.0	20	100 KHz	64 (53)	2.10	2.70	2.30
BDR3D12-1R2M	1.2	20	100 KHz	79 (64)	1.80	2.40	2.10
BDR3D12-2R2M	2.2	20	100 KHz	102 (85)	1.50	1.80	1.78
BDR3D12-2R7M	2.7	20	100 KHz	132 (110)	1.30	1.60	1.47
BDR3D12-3R3M	3.3	20	100 KHz	168 (140)	1.20	1.40	1.30
BDR3D12-3R9M	3.9	20	100 KHz	195 (162)	1.00	1.30	1.20
BDR3D12-4R7M	4.7	20	100 KHz	240 (200)	0.90	1.20	0.90
BDR3D12-5R6M	5.6	20	100 KHz	288 (240)	0.85	1.10	0.84
BDR3D12-6R8M	6.8	20	100 KHz	312 (260)	0.80	1.00	0.78
BDR3D12-8R2M	8.2	20	100 KHz	420 (350)	0.70	0.85	0.70
BDR3D12-100M	10.0	20	100 KHz	480 (400)	0.65	0.82	0.65
BDR3D12-120M	12.0	20	100 KHz	618 (515)	0.60	0.70	0.57
BDR3D12-150M	15.0	20	100 KHz	732 (610)	0.52	0.65	0.52
BDR3D12-180M	18.0	20	100 KHz	816 (680)	0.48	0.62	0.48
BDR3D12-220M	22.0	20	100 KHz	1032 (860)	0.44	0.54	0.44
BDR3D12-270M	27.0	20	100 KHz	1176 (980)	0.40	0.50	0.40
BDR3D12-330M	33.0	20	100 KHz	1392 (1160)	0.36	0.45	0.38
BDR3D12-390M	39.0	20	100 KHz	1920 (1600)	0.33	0.40	0.32

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



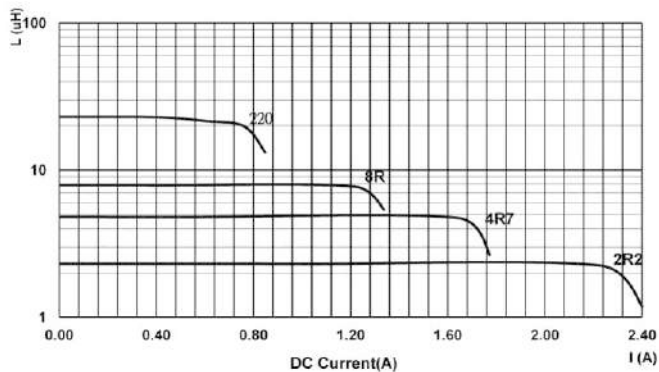


● BDR 3D15 series

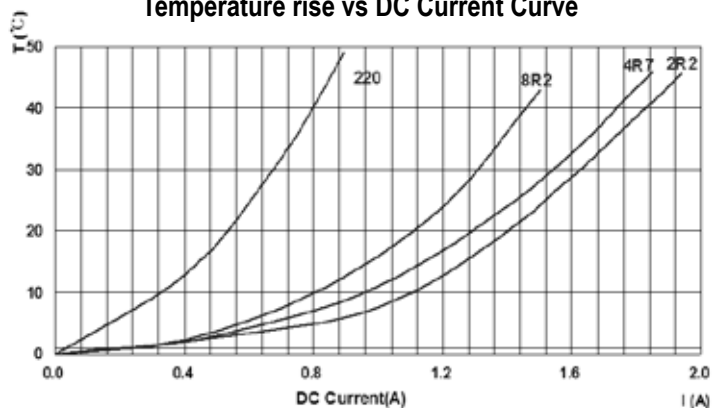
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR3D15-1R0M	1.0	20	100 KHz	78 (65)	2.50	3.00	2.20
BDR3D15-2R2M	2.2	20	100 KHz	108 (90)	1.90	2.30	1.85
BDR3D15-3R3M	3.3	20	100 KHz	126 (105)	1.40	2.00	1.70
BDR3D15-3R9M	3.9	20	100 KHz	150 (125)	1.20	1.70	1.65
BDR3D15-4R7M	4.7	20	100 KHz	168 (140)	1.10	1.60	1.40
BDR3D15-6R8M	6.8	20	100 KHz	228 (190)	0.95	1.30	1.30
BDR3D15-8R2M	8.2	20	100 KHz	264 (220)	0.90	1.20	1.20
BDR3D15-100M	10.0	20	100 KHz	300 (250)	0.85	1.10	1.10
BDR3D15-120M	12.0	20	100 KHz	378 (315)	0.78	1.00	1.00
BDR3D15-150M	15.0	20	100 KHz	444 (370)	0.68	0.90	0.90
BDR3D15-180M	18.0	20	100 KHz	564 (470)	0.62	0.80	0.79
BDR3D15-220M	22.0	20	100 KHz	636 (530)	0.52	0.72	0.72
BDR3D15-270M	27.0	20	100 KHz	900 (750)	0.48	0.65	0.60
BDR3D15-330M	33.0	20	100 KHz	1188 (990)	0.45	0.58	0.52
BDR3D15-390M	39.0	20	100 KHz	1344 (1120)	0.42	0.55	0.48
BDR3D15-470M	47.0	20	100 KHz	1752 (1460)	0.37	0.50	0.39

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



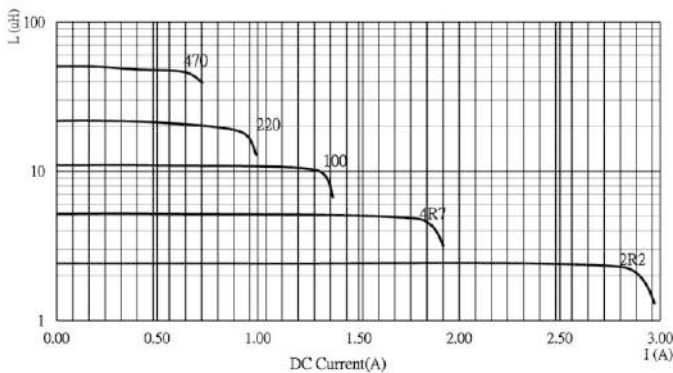


● **BDR 3D18 series**

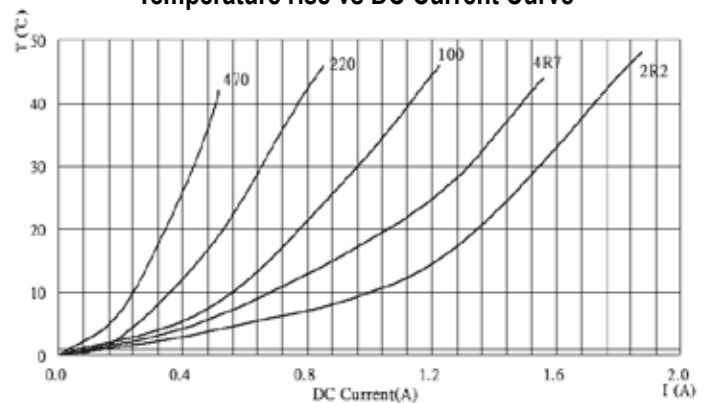
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					Δ L/L10%TYP.	Δ L/L30%TYP.	
BDR3D18-1R0M	1.0	20	100 KHz	68 (56)	3.20	3.60	2.20
BDR3D18-1R5M	1.5	20	100 KHz	90 (75)	2.40	2.80	1.85
BDR3D18-2R2M	2.2	20	100 KHz	108 (90)	2.00	2.30	1.66
BDR3D18-2R7M	2.7	20	100 KHz	118 (98)	1.70	2.10	1.59
BDR3D18-3R3M	3.3	20	100 KHz	130 (108)	1.60	2.00	1.50
BDR3D18-3R9M	3.9	20	100 KHz	140 (116)	1.50	1.90	1.45
BDR3D18-4R7M	4.7	20	100 KHz	162 (135)	1.30	1.70	1.37
BDR3D18-5R6M	5.6	20	100 KHz	178 (148)	1.20	1.60	1.27
BDR3D18-6R8M	6.8	20	100 KHz	198 (165)	1.10	1.50	1.20
BDR3D18-8R2M	8.2	20	100 KHz	222 (185)	1.00	1.30	1.13
BDR3D18-100M	10.0	20	100 KHz	252 (210)	0.90	1.20	1.06
BDR3D18-120M	12.0	20	100 KHz	294 (245)	0.85	1.10	0.98
BDR3D18-150M	15.0	20	100 KHz	384 (320)	0.75	1.00	0.86
BDR3D18-180M	18.0	20	100 KHz	432 (360)	0.70	0.92	0.80
BDR3D18-220M	22.0	20	100 KHz	564 (470)	0.60	0.82	0.70
BDR3D18-270M	27.0	20	100 KHz	630 (525)	0.55	0.75	0.67
BDR3D18-330M	33.0	20	100 KHz	804 (670)	0.50	0.65	0.55
BDR3D18-390M	39.0	20	100 KHz	906 (755)	0.47	0.62	0.51
BDR3D18-470M	47.0	20	100 KHz	1260 (1050)	0.43	0.56	0.43
BDR3D18-560M	56.0	20	100 KHz	1620 (1350)	0.38	0.50	0.38

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BDE SERIES

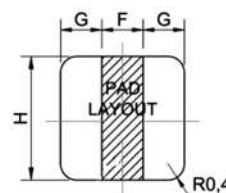
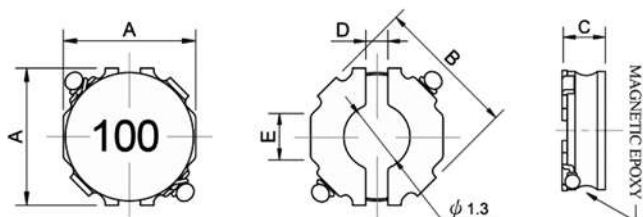
SHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E
BDE2D10	3.0±0.2	3.2	1.0	0.5	1.0
BDE2D12	3.0±0.2	3.2	1.2	0.5	1.0
BDE2D15	3.0±0.2	3.2	1.5	0.5	1.0

Item	F	G	H
BDE2D10	1.0	1.0	3.0
BDE2D12	1.0	1.0	3.0
BDE2D15	1.0	1.0	3.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic Resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature : -40°C to 105°C.

Product identification :

BDE2D10 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core and magnetic Epoxy resin. **2D** is 3.0mm square and **10** is about 1.0mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **N**: ± 30% ; **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

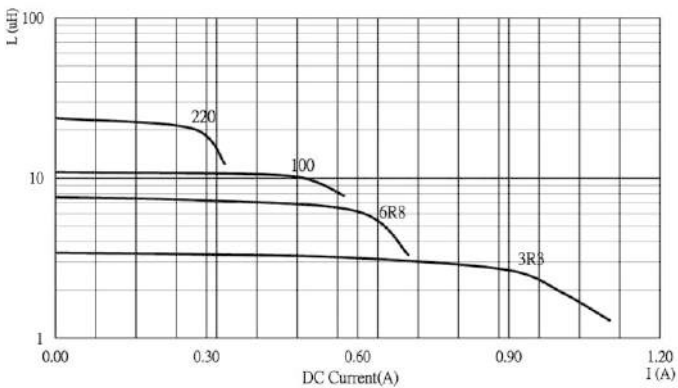


● **BDE 2D10 series**

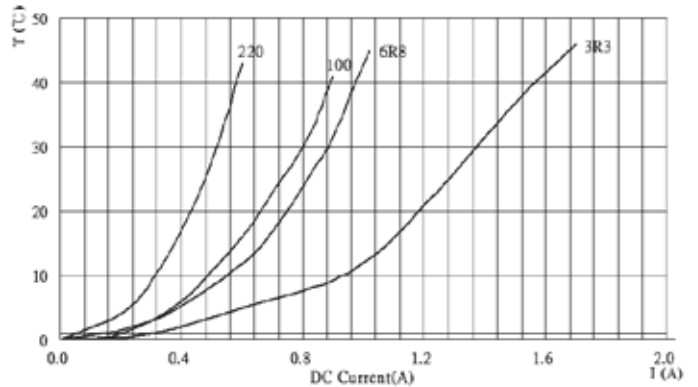
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D10-1R0N	1.0	30	100 KHz	65(50)	1.40	1.50
BDE2D10-1R2N	1.2	30	100 KHz	85(65)	1.30	1.40
BDE2D10-1R5N	1.5	30	100 KHz	100(75)	1.20	1.30
BDE2D10-2R2N	2.2	30	100 KHz	130(100)	1.10	1.10
BDE2D10-2R7N	2.7	30	100 KHz	170(130)	0.95	1.00
BDE2D10-3R3N	3.3	30	100 KHz	190(145)	0.87	0.90
BDE2D10-4R7N	4.7	30	100 KHz	240(185)	0.75	0.80
BDE2D10-5R6N	5.6	30	100 KHz	295(225)	0.68	0.75
BDE2D10-6R8N	6.8	30	100 KHz	320(245)	0.60	0.70
BDE2D10-8R2N	8.2	30	100 KHz	415(320)	0.55	0.65
BDE2D10-100M	10.0	20	100 KHz	480(370)	0.50	0.60
BDE2D10-120M	12.0	20	100 KHz	585(450)	0.37	0.55
BDE2D10-150M	15.0	20	100 KHz	650(500)	0.33	0.50
BDE2D10-180M	18.0	20	100 KHz	735(565)	0.30	0.45
BDE2D10-220M	22.0	20	100 KHz	1040(800)	0.28	0.42

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



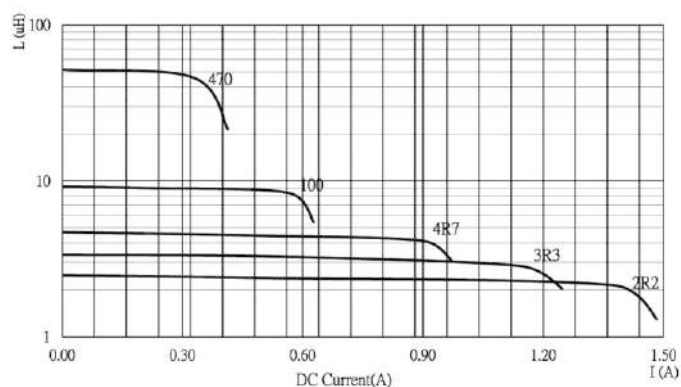


● BDE 2D12 series

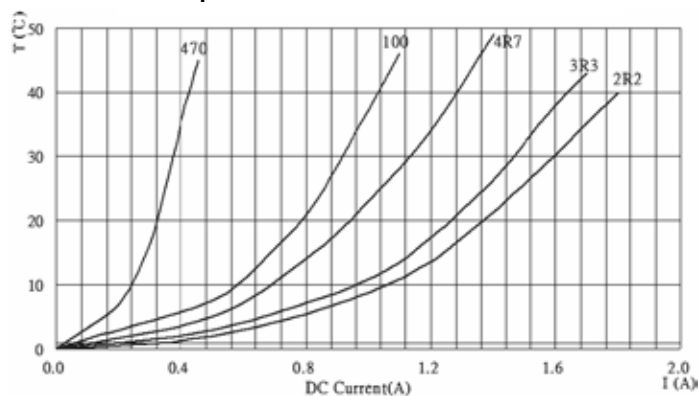
Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D12-1R2N	1.2	30	100KHz	70(55)	1.70	1.70
BDE2D12-1R5N	1.5	30	100KHz	80(60)	1.60	1.60
BDE2D12-1R8N	1.8	30	100KHz	90(70)	1.50	1.50
BDE2D12-2R2N	2.2	30	100KHz	105(80)	1.40	1.40
BDE2D12-2R7N	2.7	30	100KHz	130(100)	1.30	1.30
BDE2D12-3R3N	3.3	30	100KHz	145(110)	1.10	1.20
BDE2D12-3R9N	3.9	30	100KHz	180(140)	1.00	1.10
BDE2D12-4R7N	4.7	30	100KHz	195(150)	0.90	1.00
BDE2D12-5R6N	5.6	30	100KHz	215(165)	0.85	0.95
BDE2D12-6R8N	6.8	30	100KHz	260(200)	0.75	0.90
BDE2D12-8R2N	8.2	30	100KHz	315(240)	0.70	0.82
BDE2D12-100M	10.0	20	100KHz	325(250)	0.54	0.80
BDE2D12-120M	12.0	20	100KHz	390(300)	0.50	0.72
BDE2D12-150M	15.0	20	100KHz	475(365)	0.45	0.66
BDE2D12-180M	18.0	20	100KHz	630(485)	0.42	0.57
BDE2D12-220M	22.0	20	100KHz	735(565)	0.38	0.52
BDE2D12-270M	27.0	20	100KHz	940(725)	0.32	0.45
BDE2D12-330M	33.0	20	100KHz	1070(825)	0.30	0.42
BDE2D12-390M	39.0	20	100KHz	1240(955)	0.28	0.40
BDE2D12-470M	47.0	20	100KHz	1625(1250)	0.25	0.35

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



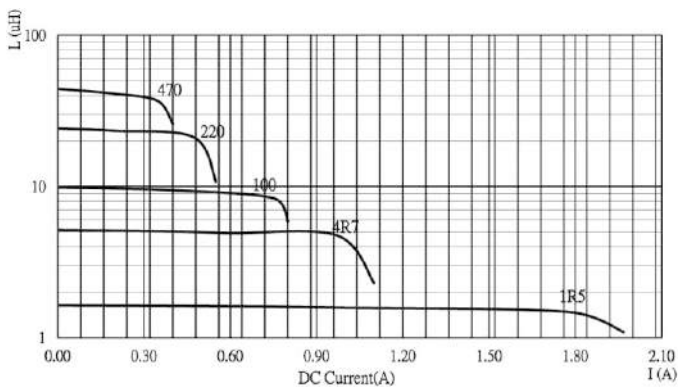


● BDE 2D15 series

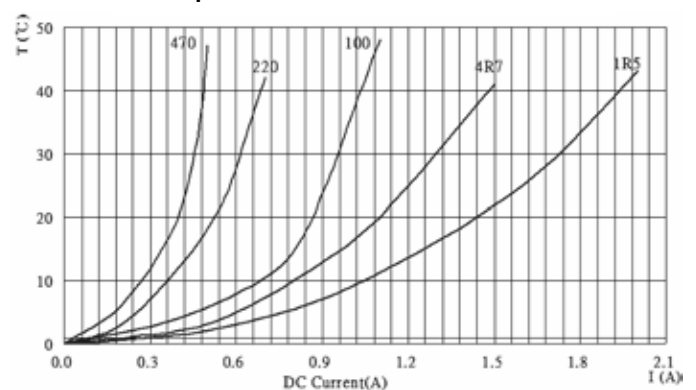
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE2D15-1R0N	1.0	30	100KHz	65(50)	2.10	1.80
BDE2D15-1R2N	1.2	30	100KHz	75(60)	2.00	1.70
BDE2D15-1R5N	1.5	30	100KHz	85(65)	1.80	1.60
BDE2D15-1R8N	1.8	30	100KHz	95(75)	1.60	1.50
BDE2D15-2R2N	2.2	30	100KHz	110(85)	1.50	1.40
BDE2D15-2R7N	2.7	30	100KHz	120(90)	1.40	1.35
BDE2D15-3R3N	3.3	30	100KHz	130(100)	1.20	1.30
BDE2D15-3R9N	3.9	30	100KHz	145(110)	1.10	1.25
BDE2D15-4R7N	4.7	30	100KHz	175(135)	1.00	1.10
BDE2D15-5R6N	5.6	30	100KHz	195(150)	0.95	1.05
BDE2D15-6R8N	6.8	30	100KHz	250(190)	0.87	0.94
BDE2D15-8R2N	8.2	30	100KHz	280(215)	0.80	0.83
BDE2D15-100M	10.0	20	100KHz	340(260)	0.70	0.75
BDE2D15-120M	12.0	20	100KHz	375(290)	0.65	0.70
BDE2D15-150M	15.0	20	100KHz	460(355)	0.56	0.64
BDE2D15-180M	18.0	20	100KHz	565(435)	0.52	0.58
BDE2D15-220M	22.0	20	100KHz	635(490)	0.47	0.55
BDE2D15-270M	27.0	20	100KHz	865(665)	0.42	0.50
BDE2D15-330M	33.0	20	100KHz	1005(775)	0.39	0.45
BDE2D15-390M	39.0	20	100KHz	1265(975)	0.35	0.40
BDE2D15-470M	47.0	20	100KHz	1475(1135)	0.32	0.38

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



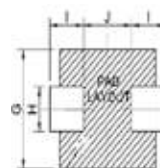
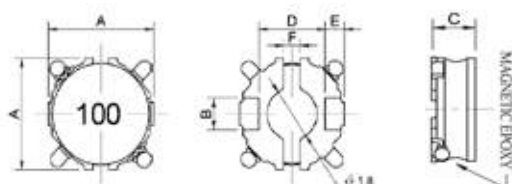
BDE SERIES

SHIELDED SMT POWER INDUCTOR

Applications :

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BDE3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6
BDE3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6
BDE3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6

Item	G	H	I	J
BDE3D12	4.0	1.5	1.4	2.0
BDE3D15	4.0	1.5	1.4	2.0
BDE3D18	4.0	1.5	1.4	2.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic Resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

BDE3D12 – 4R7 N

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper Base with DR core and magnetic epoxy resin. **3D** is 3.8mm square and **12** is about 1.2mm height.

(2) Inductance : **4R7** for 4.7 uH.

(3) Inductance tolerance : **N**: ± 30% ; **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

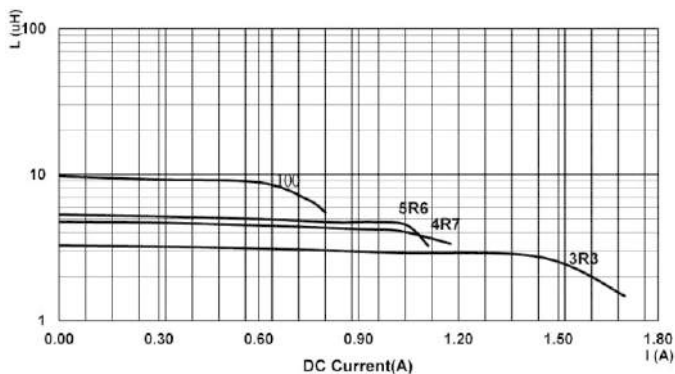


● **BDE 3D12 series**

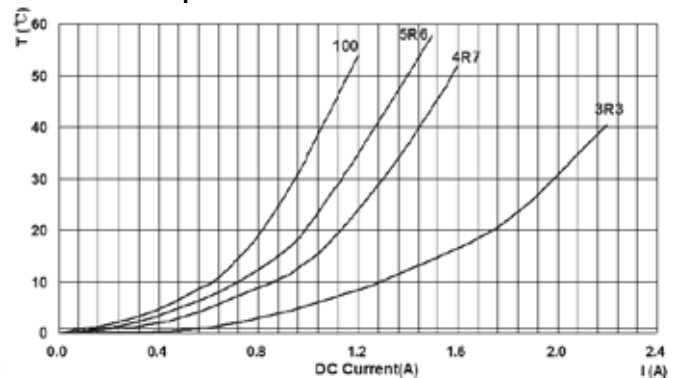
Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Test Freq. (0.1V)	DCR (m Ω) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D12-1R0N	1.0	30	100 KHz	60(50)	2.20	1.50
BDE3D12-1R2N	1.2	30	100 KHz	65(55)	2.00	1.40
BDE3D12-1R8N	1.8	30	100 KHz	85(70)	1.80	1.30
BDE3D12-2R2N	2.2	30	100 KHz	95(80)	1.60	1.20
BDE3D12-2R7N	2.7	30	100 KHz	120(100)	1.40	1.05
BDE3D12-3R3N	3.3	30	100 KHz	140(115)	1.30	1.00
BDE3D12-4R7N	4.7	30	100 KHz	175(145)	1.10	0.90
BDE3D12-5R6N	5.6	30	100 KHz	190(160)	1.00	0.84
BDE3D12-6R8N	6.8	30	100 KHz	240(200)	0.90	0.80
BDE3D12-8R2N	8.2	30	100 KHz	265(220)	0.84	0.77
BDE3D12-100M	10.0	20	100 KHz	280(235)	0.65	0.75
BDE3D12-120M	12.0	20	100 KHz	360(300)	0.60	0.65
BDE3D12-150M	15.0	20	100 KHz	420(350)	0.55	0.60
BDE3D12-180M	18.0	20	100 KHz	575(480)	0.48	0.50
BDE3D12-220M	22.0	20	100 KHz	650(540)	0.45	0.48
BDE3D12-270M	27.0	20	100 KHz	820(680)	0.38	0.42
BDE3D12-330M	33.0	20	100 KHz	935(780)	0.35	0.42
BDE3D12-390M	39.0	20	100 KHz	1090(910)	0.32	0.37
BDE3D12-470M	47.0	20	100 KHz	1440(1200)	0.28	0.32

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



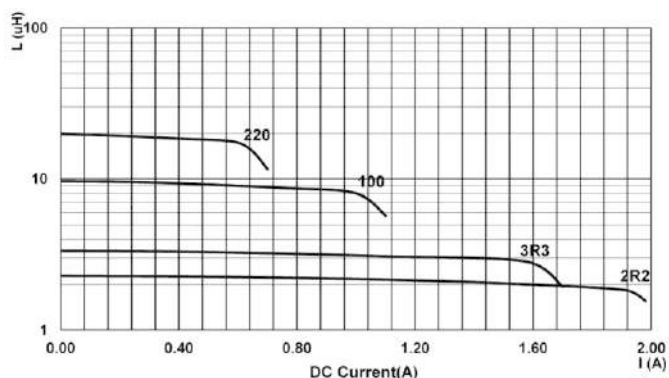


● BDE 3D15 series

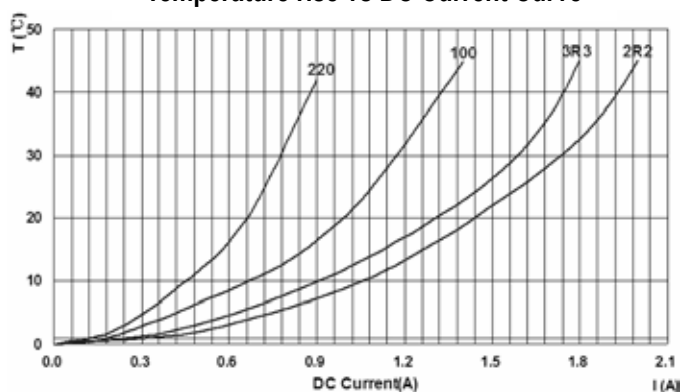
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D15-1R0N	1.0	30	100KHz	60(50)	2.70	1.50
BDE3D15-1R2N	1.2	30	100KHz	70(60)	2.30	1.40
BDE3D15-1R8N	1.8	30	100KHz	85(70)	2.10	1.30
BDE3D15-2R2N	2.2	30	100KHz	95(80)	1.90	1.25
BDE3D15-2R7N	2.7	30	100KHz	105(90)	1.70	1.20
BDE3D15-3R3N	3.3	30	100KHz	120(100)	1.50	1.10
BDE3D15-3R9N	3.9	30	100KHz	130(110)	1.40	1.05
BDE3D15-4R7N	4.7	30	100KHz	140(120)	1.30	1.00
BDE3D15-5R6N	5.6	30	100KHz	150(125)	1.20	0.95
BDE3D15-6R8N	6.8	30	100KHz	180(150)	1.10	0.90
BDE3D15-8R2N	8.2	30	100KHz	215(180)	1.00	0.80
BDE3D15-100M	10.0	20	100KHz	245(205)	0.90	0.76
BDE3D15-120M	12.0	20	100KHz	290(240)	0.75	0.70
BDE3D15-150M	15.0	20	100KHz	335(280)	0.70	0.65
BDE3D15-180M	18.0	20	100KHz	430(360)	0.60	0.57
BDE3D15-220M	22.0	20	100KHz	480(400)	0.55	0.50
BDE3D15-270M	27.0	20	100KHz	635(530)	0.48	0.45
BDE3D15-330M	33.0	20	100KHz	720(600)	0.42	0.42
BDE3D15-390M	39.0	20	100KHz	940(785)	0.38	0.37
BDE3D15-470M	47.0	20	100KHz	1030(860)	0.35	0.35

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



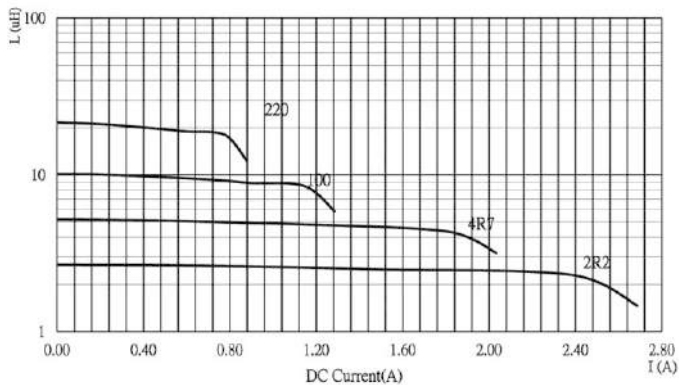


● BDE 3D18 series

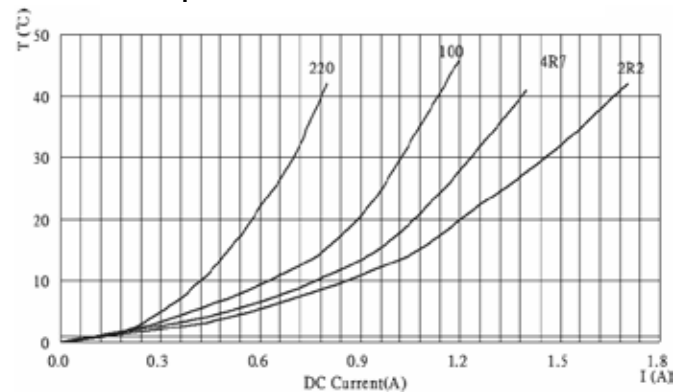
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
BDE3D18-1R0N	1.0	30	100KHz	65(55)	3.50	1.60
BDE3D18-1R2N	1.2	30	100KHz	75(60)	3.10	1.50
BDE3D18-1R5N	1.5	30	100KHz	85(70)	2.80	1.40
BDE3D18-1R8N	1.8	30	100KHz	95(80)	2.60	1.35
BDE3D18-2R2N	2.2	30	100KHz	105(90)	2.40	1.25
BDE3D18-3R3N	3.3	30	100KHz	120(100)	2.20	1.20
BDE3D18-3R9N	3.9	30	100KHz	130(110)	2.00	1.15
BDE3D18-4R7N	4.7	30	100KHz	145(120)	1.80	1.10
BDE3D18-5R6N	5.6	30	100KHz	170(140)	1.60	1.00
BDE3D18-6R8N	6.8	30	100KHz	180(150)	1.50	0.95
BDE3D18-8R2N	8.2	30	100KHz	205(170)	1.40	0.82
BDE3D18-100M	10.0	20	100KHz	245(205)	1.10	0.75
BDE3D18-120M	12.0	20	100KHz	275(230)	1.00	0.70
BDE3D18-150M	15.0	20	100KHz	360(300)	0.90	0.62
BDE3D18-180M	18.0	20	100KHz	410(340)	0.85	0.58
BDE3D18-220M	22.0	20	100KHz	515(430)	0.75	0.52
BDE3D18-270M	27.0	20	100KHz	600(500)	0.70	0.48
BDE3D18-330M	33.0	20	100KHz	770(640)	0.60	0.42
BDE3D18-390M	39.0	20	100KHz	845(705)	0.55	0.40
BDE3D18-470M	47.0	20	100KHz	1160(965)	0.48	0.35

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BRI SERIES

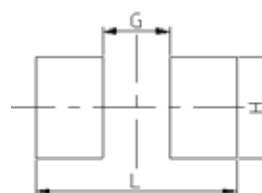
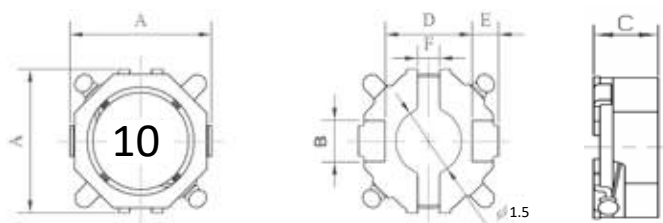
SHIELDED SMT POWER INDUCTOR

Applications :

- DSC, DVC , PDA products.
- Hand phone of new generation.
- Hard disk drives.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BRI2D12	3.0±0.2	1.0	1.2	2.0	0.5	0.5
BRI2D15	3.0±0.2	1.0	1.5	2.0	0.5	0.5
BRI2D18	3.0±0.2	1.0	1.8	2.0	0.5	0.5

Item	G	H	L
BRI2D12	1.8	1.2	4.0
BRI2D15	1.8	1.2	4.0
BRI2D18	1.8	1.2	4.0

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat) : The current when the inductance becomes 30% lower than its initial value (Ta=20°C).
- Temperature Rise(Irms):The current when temperature of coil increase up to max.ΔT=40°C.(Ta=20°C).
- Operating Temperature : -40°C to 105°C.

Product identification :

BRI2D12 - 100 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with DR core and **RI** core

2D is 3.0mm square and **12** is about 1.2mm height.

(2) Inductance : **100** for **10.0** uH.

(3) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

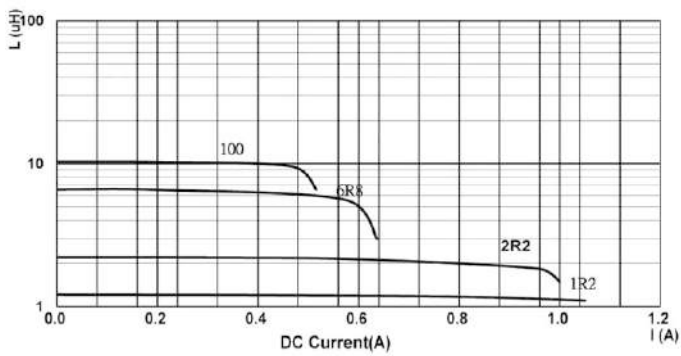


● **BRI 2D12 series**

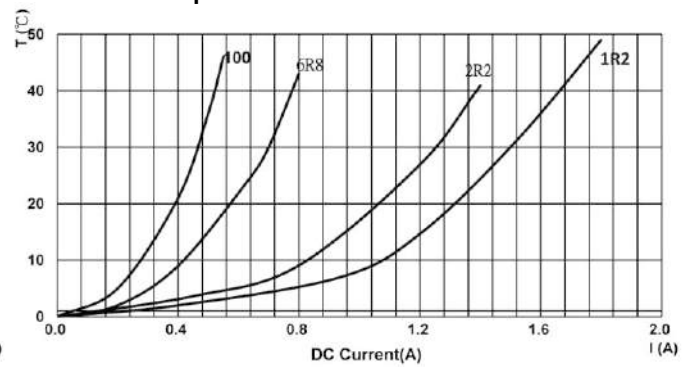
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D12-1R2N	1.2	30	100 KHz	117 (90)	0.85	0.70	1.05
BRI2D12-2R2N	2.2	30	100 KHz	182 (140)	0.70	0.60	0.90
BRI2D12-3R3N	3.3	30	100 KHz	260 (200)	0.60	0.50	0.82
BRI2D12-4R7N	4.7	30	100 KHz	312 (240)	0.50	0.40	0.72
BRI2D12-5R6N	5.6	30	100 KHz	442 (340)	0.46	0.35	0.67
BRI2D12-6R8N	6.8	30	100 KHz	520 (400)	0.43	0.30	0.62
BRI2D12-8R2N	8.2	30	100 KHz	560 (430)	0.38	0.28	0.58
BRI2D12-100M	10.0	20	100 KHz	780 (600)	0.33	0.25	0.55

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



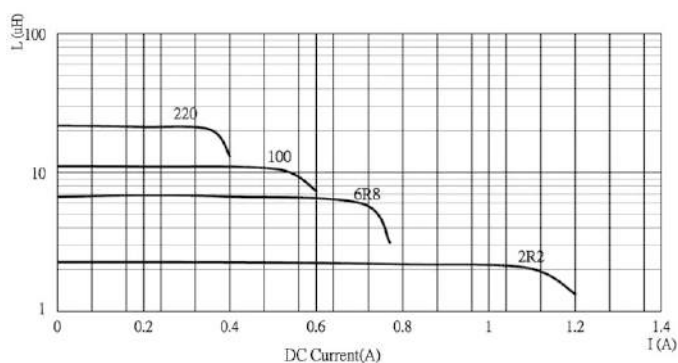


● BRI 2D15 series

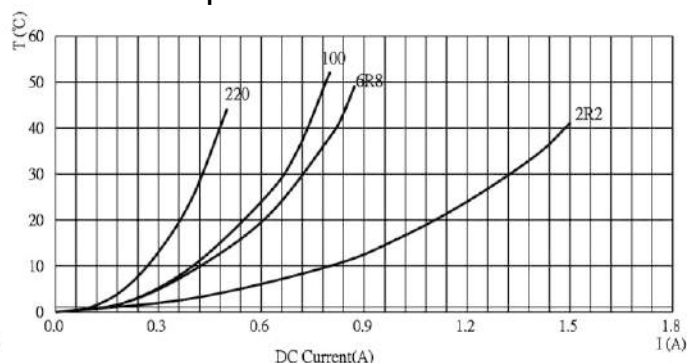
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D15-2R2N	2.2	30	100 KHz	150 (115)	1.00	0.80	1.00
BRI2D15-3R3N	3.3	30	100 KHz	234 (180)	0.90	0.70	0.90
BRI2D15-4R7N	4.7	30	100 KHz	338 (260)	0.80	0.60	0.85
BRI2D15-5R6N	5.6	30	100 KHz	364 (280)	0.70	0.55	0.80
BRI2D15-6R8N	6.8	30	100 KHz	416 (320)	0.60	0.52	0.77
BRI2D15-8R2N	8.2	30	100 KHz	572 (440)	0.55	0.48	0.72
BRI2D15-100M	10.0	20	100 KHz	624 (480)	0.50	0.45	0.70
BRI2D15-120M	12.0	20	100 KHz	702 (540)	0.45	0.40	0.65
BRI2D15-150M	15.0	20	100 KHz	949 (730)	0.40	0.35	0.50
BRI2D15-180M	18.0	20	100 KHz	1090 (840)	0.35	0.30	0.40
BRI2D15-220M	22.0	20	100 KHz	1250 (960)	0.30	0.25	0.30

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



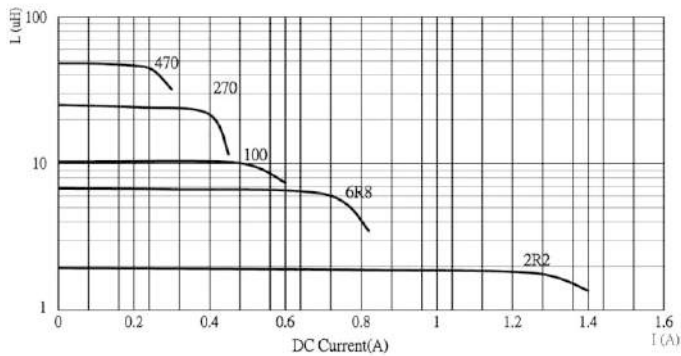


● **BRI 2D18 series**

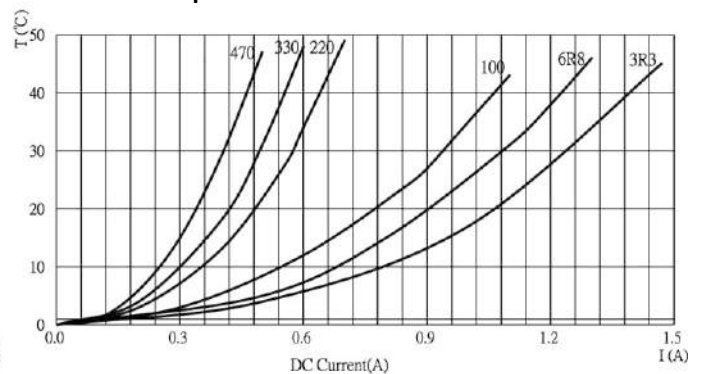
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI2D18-2R2N	2.2	30	100 KHz	117 (90)	1.10	0.90	1.10
BRI2D18-3R3N	3.3	30	100 KHz	143 (110)	1.00	0.80	1.00
BRI2D18-4R7N	4.7	30	100 KHz	221 (170)	0.80	0.70	0.90
BRI2D18-5R6N	5.6	30	100 KHz	247 (190)	0.75	0.60	0.85
BRI2D18-6R8N	6.8	30	100 KHz	312 (240)	0.70	0.55	0.82
BRI2D18-8R2N	8.2	30	100 KHz	351 (270)	0.60	0.50	0.78
BRI2D18-100M	10.0	20	100 KHz	468 (360)	0.55	0.48	0.75
BRI2D18-120M	12.0	20	100 KHz	533 (410)	0.50	0.45	0.65
BRI2D18-150M	15.0	20	100 KHz	598 (460)	0.45	0.40	0.55
BRI2D18-180M	18.0	20	100 KHz	715 (550)	0.40	0.33	0.50
BRI2D18-220M	22.0	20	100 KHz	975 (750)	0.38	0.30	0.45
BRI2D18-270M	27.0	20	100 KHz	1105 (850)	0.33	0.25	0.40
BRI2D18-330M	33.0	20	100 KHz	1222 (940)	0.30	0.23	0.33
BRI2D18-390M	39.0	20	100 KHz	1625 (1250)	0.25	0.20	0.28
BRI2D18-470M	47.0	20	100 KHz	1820 (1400)	0.23	0.18	0.25

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



BRI SERIES

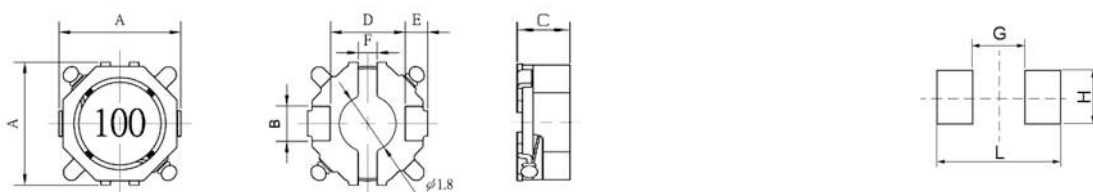
SHIELDED SMT POWER INDUCTOR

Applications :

- DSC, DVC , PDA products.
- Hand phone of new generation.
- Hard disk drives.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.	D	E	F
BRI3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6
BRI3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6
BRI3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6

Item	G	H	L
BRI3D12	2.0	1.5	4.8
BRI3D15	2.0	1.5	4.8
BRI3D18	2.0	1.5	4.8

Features :

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Characteristics :

- Saturation Current (Isat) : The current when the inductance becomes 30% lower than its initial value.(Ta=20°C)
- Temperature Rise(Irms) : The current when temperature of coil increase up to max.Δ T=40°C.(Ta=20°C).
- Operating Temperature : -40°C to 105°C.

Product identification :

BRI3D12 - 220 M

(1) (2) (3)

(1) Type : Surface mountable type.

Style : Copper **B**ase with DR core and **RI** core.

3D is 3.8mm square and **12** is about 1.2mm height.

(2) Inductance : **220** for **22.0** uH.

(3) Inductance tolerance : **N**: ± 30%; **M**: ± 20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.

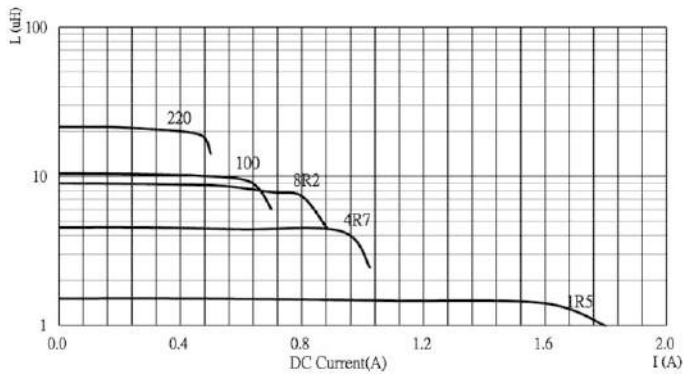


● **BRI 3D12 series**

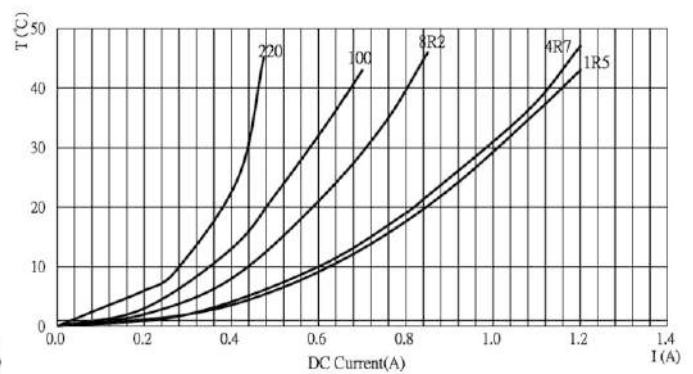
Part No	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D12-1R2N	1.2	30	100 KHz	81 (65)	1.60	1.40	1.30
BRI3D12-1R5N	1.5	30	100 KHz	100 (80)	1.40	1.20	1.10
BRI3D12-2R2N	2.2	30	100 KHz	125 (100)	1.20	0.90	0.92
BRI3D12-2R7N	2.7	30	100 KHz	188 (150)	1.10	0.85	0.87
BRI3D12-3R9N	3.9	30	100 KHz	256 (205)	1.00	0.80	0.83
BRI3D12-4R7N	4.7	30	100 KHz	287 (230)	0.90	0.70	0.80
BRI3D12-5R6N	5.6	30	100 KHz	380 (305)	0.80	0.60	0.75
BRI3D12-6R8N	6.8	30	100 KHz	450 (360)	0.70	0.55	0.65
BRI3D12-8R2N	8.2	30	100 KHz	500 (400)	0.60	0.50	0.55
BRI3D12-100M	10.0	20	100 KHz	650 (520)	0.50	0.35	0.45
BRI3D12-120M	12.0	20	100 KHz	687 (550)	0.45	0.30	0.40
BRI3D12-150M	15.0	20	100 KHz	787 (630)	0.40	0.27	0.37
BRI3D12-180M	18.0	20	100 KHz	875 (700)	0.35	0.25	0.35
BRI3D12-220M	22.0	20	100 KHz	962 (770)	0.30	0.20	0.30

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



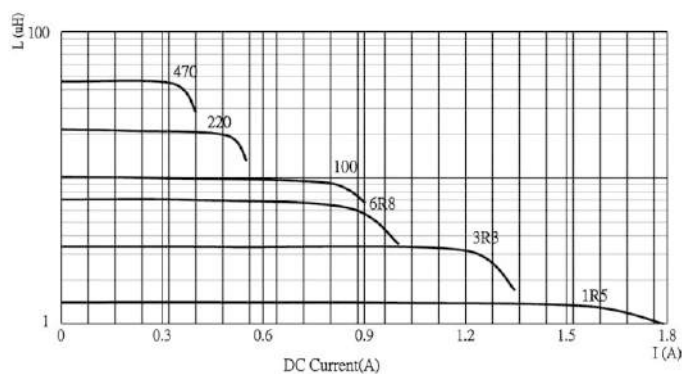


• BRI 3D15 series

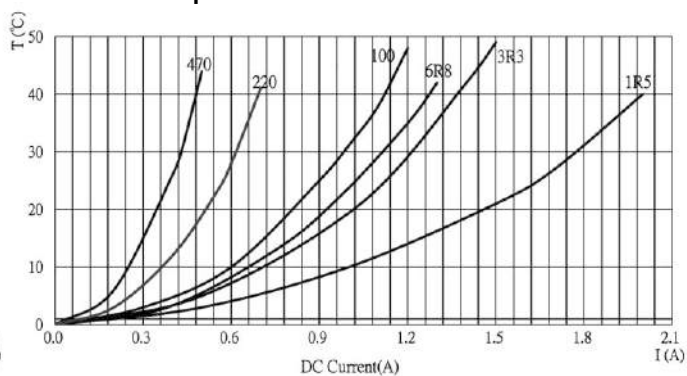
Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D15-1R0N	1.0	30	100 KHz	78 (62)	2.00	1.80	1.80
BRI3D15-1R5N	1.5	30	100 KHz	94 (75)	1.70	1.50	1.70
BRI3D15-2R2N	2.2	30	100 KHz	106 (85)	1.40	1.20	1.60
BRI3D15-2R7N	2.7	30	100 KHz	118 (95)	1.30	1.10	1.50
BRI3D15-3R3N	3.3	30	100 KHz	131 (105)	1.10	1.00	1.40
BRI3D15-3R9N	3.9	30	100 KHz	143 (115)	1.00	0.90	1.30
BRI3D15-4R7N	4.7	30	100 KHz	162 (130)	0.95	0.85	1.20
BRI3D15-5R6N	5.6	30	100 KHz	175 (140)	0.90	0.80	1.10
BRI3D15-6R8N	6.8	30	100 KHz	212 (170)	0.85	0.75	1.00
BRI3D15-8R2N	8.2	30	100 KHz	237 (190)	0.80	0.70	0.95
BRI3D15-100M	10.0	20	100 KHz	262 (210)	0.70	0.5	0.90
BRI3D15-120M	12.0	20	100 KHz	350 (280)	0.60	0.45	0.80
BRI3D15-150M	15.0	20	100 KHz	456 (365)	0.55	0.42	0.75
BRI3D15-180M	18.0	20	100 KHz	506 (405)	0.50	0.40	0.70
BRI3D15-220M	22.0	20	100 KHz	575 (460)	0.45	0.37	0.55
BRI3D15-270M	27.0	20	100 KHz	675 (540)	0.40	0.33	0.53
BRI3D15-330M	33.0	20	100 KHz	937 (750)	0.35	0.30	0.50
BRI3D15-390M	39.0	20	100 KHz	1037 (830)	0.32	0.28	0.45
BRI3D15-470M	47.0	20	100 KHz	1262 (1010)	0.28	0.22	0.43

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve

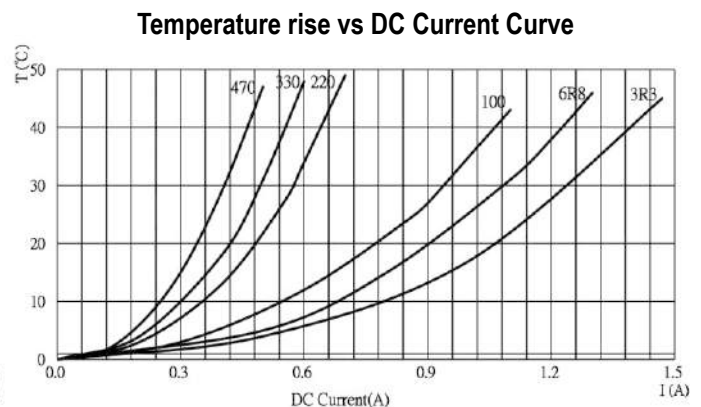
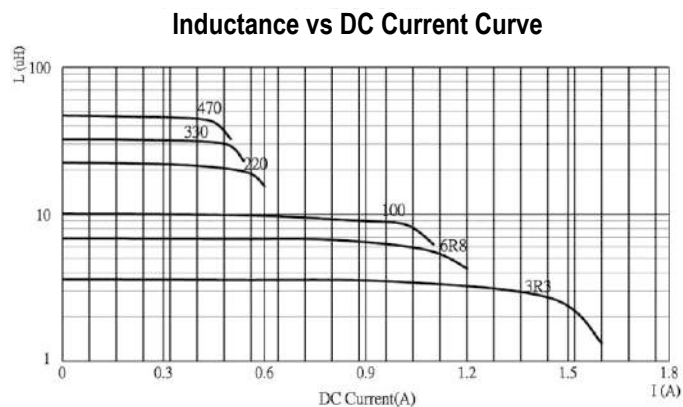




● **BRI 3D18 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.		I rms (A) Max.
					20°C	100°C	
BRI3D18-1R2N	1.2	30	100 KHz	88 (70)	2.00	1.80	1.90
BRI3D18-1R8N	1.8	30	100 KHz	100 (80)	1.80	1.60	1.80
BRI3D18-2R2N	2.2	30	100 KHz	113 (90)	1.60	1.40	1.70
BRI3D18-2R7N	2.7	30	100 KHz	125 (100)	1.40	1.20	1.55
BRI3D18-3R3N	3.3	30	100 KHz	138 (110)	1.20	1.10	1.45
BRI3D18-3R9N	3.9	30	100 KHz	150 (120)	1.10	1.00	1.35
BRI3D18-4R7N	4.7	30	100 KHz	162 (130)	1.00	0.90	1.25
BRI3D18-5R6N	5.6	30	100 KHz	181 (145)	0.95	0.85	1.15
BRI3D18-6R8N	6.8	30	100 KHz	200 (160)	0.90	0.80	1.05
BRI3D18-8R2N	8.2	30	100 KHz	225 (180)	0.80	0.75	0.95
BRI3D18-100M	10.0	20	100 KHz	250 (200)	0.75	0.70	0.85
BRI3D18-120M	12.0	20	100 KHz	337 (270)	0.65	0.60	0.70
BRI3D18-150M	15.0	20	100 KHz	393 (315)	0.60	0.55	0.65
BRI3D18-180M	18.0	20	100 KHz	437 (350)	0.55	0.50	0.60
BRI3D18-220M	22.0	20	100 KHz	563 (450)	0.50	0.45	0.55
BRI3D18-270M	27.0	20	100 KHz	637 (510)	0.45	0.40	0.45
BRI3D18-330M	33.0	20	100 KHz	712 (570)	0.40	0.35	0.40
BRI3D18-390M	39.0	20	100 KHz	956 (765)	0.38	0.32	0.35
BRI3D18-470M	47.0	20	100 KHz	1100 (880)	0.32	0.28	0.30

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SNR3015 SERIES

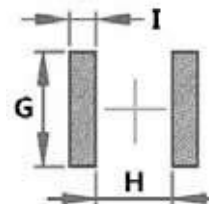
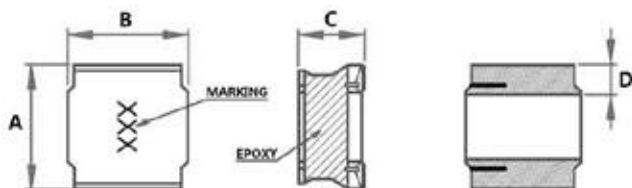
SHIELDED SMT POWER INDUCTORS

Applications :

- For small DC/DC converter(cellular phone, HDD, DVC, DSC, PDA, LCD display etc).



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C Max.	D
SNR3015	3.0	3.0	1.5	0.9

Item	G	H	I
SNR3015	3.08	0.90	1.20

Features :

- Realizes small size and low profile designed.
- It corresponds to high current.
- Magnetically shielded construction with magnetic Resin.
- Durable structure against dropping impact.
- RoHS compliant.

Product Identification :

SNR 3015 - 100 M

(1) (2) (3) (4)

- (1) Type : Product type.
- (2) Style : L=3.0mm H=1.5mm.
- (3) Inductance : 100 for 10 μ H.
- (4) Inductance tolerance : M: $\pm 20\%$; N: $\pm 30\%$..

Characteristics :

- Saturation current (Isat) : The current when the Inductance become 35% lower than is initial Value.(Ta=20°C).
- Temperature rise current (Irms) : The current when Temperature of coil increase up to max. $\Delta T=40^\circ\text{C}$.(Ta=20°C)
- Operating temp: -40°C to 125°C.

Test equipments :

- L: Agilent 4284A Precision LCR meter.
- L Load: Agilent 4284A with HP42841A current source.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C.

**● SNR3015 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR3015-1R0□	1.0	30	100KHz	30	2.32	1.62	1R0
SNR3015-1R2□	1.2	30	100KHz	40	2.30	1.61	1R2
SNR3015-1R5□	1.5	30	100KHz	50	2.30	1.61	1R5
SNR3015-2R2□	2.2	20, 30	100KHz	60	1.60	1.12	2R2
SNR3015-3R3□	3.3	20, 30	100KHz	80	1.32	0.92	3R3
SNR3015-4R7□	4.7	20, 30	100KHz	125	1.10	0.77	4R7
SNR3015-6R8□	6.8	20, 30	100KHz	200	0.85	0.60	6R
SNR3015-100□	10	20, 30	100KHz	250	0.72	0.50	100
SNR3015-120□	12	20, 30	100KHz	320	0.66	0.46	120
SNR3015-150□	15	20, 30	100KHz	350	0.66	0.46	150
SNR3015-220□	22	20, 30	100KHz	460	0.52	0.36	220
SNR3015-470□	47	20, 30	100KHz	1250	0.32	0.22	470

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SNR4018&4030&5040 SERIES

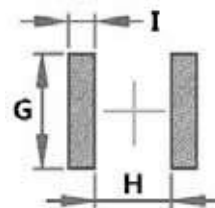
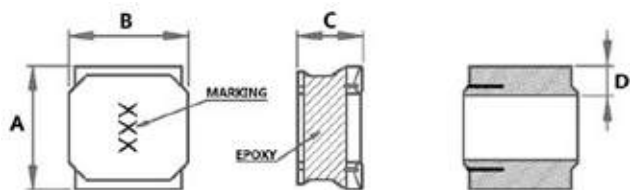
SHIELDED SMT POWER INDUCTORS

Applications :

- For small DC/DC converter(cellular phone, HDD, DVC, DSC, PDA, LCD display etc).



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C Max.	D
SNR4018	4.0	4.0	1.85	1.20
SNR4030	4.0	4.0	3.00	1.35
SNR5040	5.0	5.0	4.10	1.50

Item	G	H	I
SNR4018	3.80	1.30	1.50
SNR4030	3.70	1.00	1.65
SNR5040	4.30	1.70	1.80

Features :

- Realizes small size and low profile designed.
- It corresponds to high current.
- Magnetically shielded construction with magnetic Resin.
- Durable structure against dropping impact.
- RoHS compliant.

Product Identification :

SNR 4018 - 100 M

(1) (2) (3) (4)

- (1) Type: Product type.
- (2) Style: L=4.0mm H=1.85mm.
- (3) Inductance: 100 for 10 uH.
- (4) Inductance tolerance: M: $\pm 20\%$; N: $\pm 30\%$..

Characteristics :

- Saturation current (Isat) : The current when the Inductance become 35% lower than is initial Value.(Ta=20°C).
- Temperature rise current (Irms) : The current when Temperature of coil increase up to max. $\Delta T=40^\circ\text{C}$.(Ta=20°C)
- Operating temp: -40°C to 125°C.

Test equipments :

- L: Agilent 4284A Precision LCR meter.
- L Load: Agilent 4284A with HP42841A current source.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C.


● SNR4018 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR4018-R56□	0.56	30	100KHz	18.5	5.50	3.85	R56
SNR4018-1R0□	1.0	30	100KHz	25	4.50	3.15	1R0
SNR4018-1R2□	1.2	30	100KHz	37	3.50	2.45	1R2
SNR4018-2R2□	2.2	20,30	100KHz	45	2.70	1.89	2R2
SNR4018-3R3□	3.3	20,30	100KHz	66	2.15	1.51	3R3
SNR4018-4R7□	4.7	20,30	100KHz	90	2.00	1.40	4R7
SNR4018-5R6□	5.6	20,30	100KHz	100	1.65	1.16	5R6
SNR4018-6R8□	6.8	20,30	100KHz	110	1.60	1.12	6R8
SNR4018-100□	10	20,30	100KHz	180	1.30	0.91	100
SNR4018-150□	15	20,30	100KHz	250	0.95	0.67	150
SNR4018-220□	22	20,30	100KHz	360	0.80	0.56	220
SNR4018-330□	33	20,30	100KHz	530	0.65	0.46	330
SNR4018-470□	47	20,30	100KHz	650	0.57	0.40	470
SNR4018-680□	68	20,30	100KHz	1000	0.46	0.32	680
SNR4018-101□	100	20,30	100KHz	1500	0.41	0.29	101
SNR4018-151□	150	20,30	100KHz	2400	0.32	0.22	151

● SNR4030 series

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR4030-1R0□	1.0	30	100KHz	22	5.00	3.50	1R0
SNR4030-1R5□	1.5	20,30	100KHz	32	4.80	3.36	1R5
SNR4030-2R2□	2.2	20,30	100KHz	35	4.50	3.15	2R2
SNR4030-3R3□	3.3	20,30	100KHz	50	3.00	2.10	3R3
SNR4030-4R7□	4.7	20,30	100KHz	60	2.90	2.03	4R7
SNR4030-6R8□	6.8	20,30	100KHz	100	2.20	1.54	6R8
SNR4030-100□	10	20,30	100KHz	120	2.00	1.40	100
SNR4030-150□	15	20,30	100KHz	200	1.70	1.19	150
SNR4030-220□	22	20,30	100KHz	225	1.30	0.91	220
SNR4030-330□	33	20,30	100KHz	360	1.10	0.77	330
SNR4030-470□	47	20,30	100KHz	460	0.98	0.69	470
SNR4030-560□	56	20,30	100KHz	534	0.88	0.62	560
SNR4030-680□	68	20,30	100KHz	836	0.77	0.54	680
SNR4030-101□	100	20,30	100KHz	1110	0.70	0.49	101
SNR4030-151□	150	20,30	100KHz	1400	0.50	0.35	151
SNR4030-221□	220	20,30	100KHz	3500	0.33	0.23	221



● **SNR5040 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR5040-1R0□	1.0	30	100KHz	14	7.35	5.15	1R0
SNR5040-1R5□	1.5	30	100KHz	22	5.00	3.50	1R5
SNR5040-2R2□	2.2	20,30	100KHz	20	4.90	3.43	2R2
SNR5040-3R3□	3.3	20,30	100KHz	26	3.95	2.77	3R3
SNR5040-4R7□	4.7	20,30	100KHz	32	3.50	2.45	4R7
SNR5040-6R8□	6.8	20,30	100KHz	45	2.90	2.03	6R8
SNR5040-100□	10	20,30	100KHz	60	2.30	1.61	100
SNR5040-150□	15	20,30	100KHz	80	2.00	1.40	150
SNR5040-220□	22	20,30	100KHz	130	1.60	1.12	220
SNR5040-270□	27	20,30	100KHz	160	1.40	0.98	270
SNR5040-330□	33	20,30	100KHz	180	1.30	0.91	330
SNR5040-470□	47	20,30	100KHz	310	1.02	0.71	470
SNR5040-560□	56	20,30	100KHz	340	1.00	0.70	560
SNR5040-680□	68	20,30	100KHz	500	0.85	0.60	680
SNR5040-101□	100	20,30	100KHz	560	0.66	0.46	101
SNR5040-221□	220	20,30	100KHz	1800	0.40	0.28	221

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SNR6045&8040 SERIES

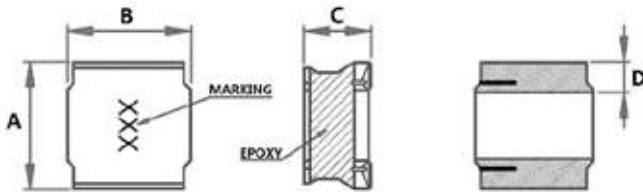
SHIELDED SMT POWER INDUCTORS

Applications :

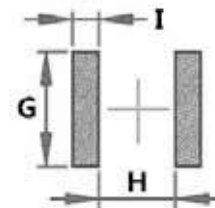
- For small DC/DC converter(cellular phone, HDD, .
DVC, DSC, PDA, LCD display etc).



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C Max.	D
SNR6045	6.0	6.0	4.50	1.65
SNR8040	8.0	8.0	4.20	2.45



Item	G	H	I
SNR6045	5.20	2.40	1.95
SNR8040	6.60	2.80	2.75

Features :

- Realizes small size and low profile designed.
- It corresponds to high current.
- Magnetically shielded construction with magnetic Resin.
- Durable structure against dropping impact.
- RoHS compliant.

Characteristics :

- Saturation current (Isat) : The current when the Inductance become 35% lower than is initial Value.(Ta=20°C).
- Temperature rise current (Irms) : The current when Temperature of coil increase up to max. $\Delta T=40^{\circ}\text{C}$.(Ta=20°C)
- Operating temp: -40°C to 125°C.

Product Identification :

SNR 6045 - 100 M

(1) (2) (3) (4)

- (1) Type: Product type.
- (2) Style: L=6.0mm H=4.5mm.
- (3) Inductance: 100 for 10 uH.
- (4) Inductance tolerance: M:±20%; N:±30%..

Test equipments :

- L: Agilent 4284A Precision LCR meter.
- L Load: Agilent 4284A with HP42841A current source.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C.



● **SNR6045 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR6045-1R0□	1.0	20,30	100KHz	11	9.85	6.90	1R0
SNR6045-1R5□	1.5	20,30	100KHz	12	9.00	6.30	1R5
SNR6045-1R8□	1.8	20,30	100KHz	18	7.00	4.20	1R8
SNR6045-2R2□	2.2	20,30	100KHz	18	6.90	4.83	2R2
SNR6045-3R3□	3.3	20,30	100KHz	21	5.90	4.13	3R3
SNR6045-4R7□	4.7	20,30	100KHz	26	5.00	3.50	4R7
SNR6045-5R6□	5.6	20,30	100KHz	28	4.27	2.99	5R6
SNR6045-6R8□	6.8	20,30	100KHz	31	3.90	2.73	6R8
SNR6045-8R2□	8.2	20,30	100KHz	46	3.30	2.31	8R2
SNR6045-100□	10	20,30	100KHz	46	3.30	2.31	100
SNR6045-120□	12	20,30	100KHz	60	2.80	1.96	120
SNR6045-150□	15	20,30	100KHz	65	2.58	1.81	150
SNR6045-220□	22	20,30	100KHz	115	2.08	1.46	220
SNR6045-270□	27	20,30	100KHz	120	1.90	1.33	270
SNR6045-330□	33	20,30	100KHz	140	1.65	1.16	330
SNR6045-470□	47	20,30	100KHz	200	1.44	1.01	470
SNR6045-680□	68	20,30	100KHz	290	1.40	0.98	680
SNR6045-101□	100	20,30	100KHz	416	0.98	0.69	101
SNR6045-121□	120	20,30	100KHz	466	0.88	0.62	121
SNR6045-151□	150	20,30	100KHz	580	0.80	0.56	151
SNR6045-221□	220	20,30	100KHz	803	0.72	0.50	221
SNR6045-331□	330	20,30	100KHz	2000	0.50	0.35	331
SNR6045-102□	1000	20,30	100KHz	5200	0.24	0.17	102



● **SNR8040 series**

Part No.	Inductance L (uH)	Tolerance (±%)	Test. Freq. (0.25V)	DCR (mΩ) ±30%	I sat (A) Max.	I rms (A) Max.	Marking
SNR8040-1R0□	1.0	30	100KHz	7.0	10.15	7.15	1R0
SNR8040-1R5□	1.5	20,30	100KHz	10	8.15	5.65	1R5
SNR8040-2R2□	2.2	20,30	100KHz	12	8.00	6.48	2R2
SNR8040-3R3□	3.3	20,30	100KHz	17	6.50	5.40	3R3
SNR8040-4R7□	4.7	20,30	100KHz	19	5.90	4.80	4R7
SNR8040-6R8□	6.8	20,30	100KHz	24	4.95	4.59	6R8
SNR8040-100□	10	20,30	100KHz	40	4.30	3.50	100
SNR8040-150□	15	20,30	100KHz	47	2.95	2.95	150
SNR8040-220□	22	20,30	100KHz	66	2.50	2.50	220
SNR8040-330□	33	20,30	100KHz	110	2.07	2.07	330
SNR8040-470□	47	20,30	100KHz	150	1.75	1.75	470
SNR8040-680□	68	20,30	100KHz	196	1.45	1.45	680
SNR8040-101□	100	20,30	100KHz	290	1.15	1.15	101
SNR8040-221□	220	20,30	100KHz	600	0.85	0.80	221
SNR8040-331□	330	20,30	100KHz	890	0.68	0.68	331
SNR8040-471□	470	20,30	100KHz	1500	0.55	0.50	471
SNR8040-681□	680	20,30	100KHz	2040	0.48	0.48	681

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

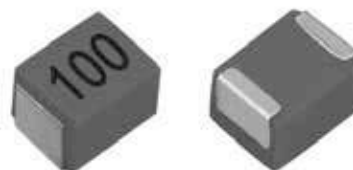


SMD SERIES

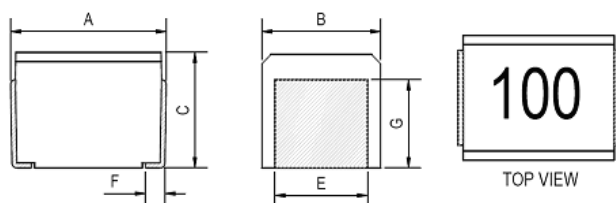
WIRE WOUND SMD CHIP INDUCTORS

Applications :

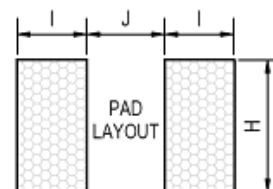
- DSC, DVC products.
- PCs, hard disk drives and computer peripherals.
- Telecommunications devices.
- TV circuits.
- Test equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	G
SMD2520V(P)	2.5±0.2	2.0±0.2	1.8±0.2	1.4±0.1	0.4	1.4
SMD3225V(P)	3.2±0.2	2.5±0.2	2.2±0.2	1.9±0.1	0.4	1.6



Item	H	I	J
SMD2520V(P)	1.5	1.0	1.5
SMD3225V(P)	2.0	1.0	2.0

Features :

- Wire wound SMD inductors .
- Highly accurate dimensions and reliable performance.
- SMD2520V/ 3225V are high Q-characteristic achieved in the miniature winding construction.
- SMD2520VP / 3225VP / 3225VH are low R_{dc} higher current for the power supply line applications.
- Excellent heat durability that withstands lead-free compatible reflow soldering conditions.

Characteristics :

- Rated Current : It is either the inductance is 20% lower is than its initial value in DC saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temperature : -40°C to 105°C (Including self-temperature rise).

Product identification :

SMD 3225 V P - 100 K

(1) (2) (3) (4) (5) (6)

(1) Type : **Surface Mount Devices**.

(2) Style : **L**=3.2 mm **W**=2.5mm **Ht**=2.2mm.

(3) "V" : **Vertical Structure**.

(4) "P" : For **Power Line**. "H": **High current**.

(5) Inductance : **100** for **10** uH.

(6) Inductance tolerance: **J**:±5%; **K**:±10%; **M**:±20%.

Test equipments :

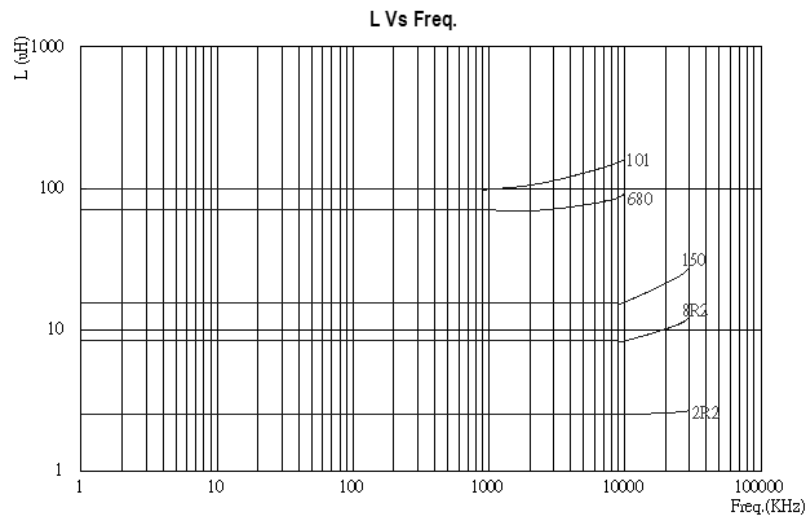
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C .



● SMD 2520V series

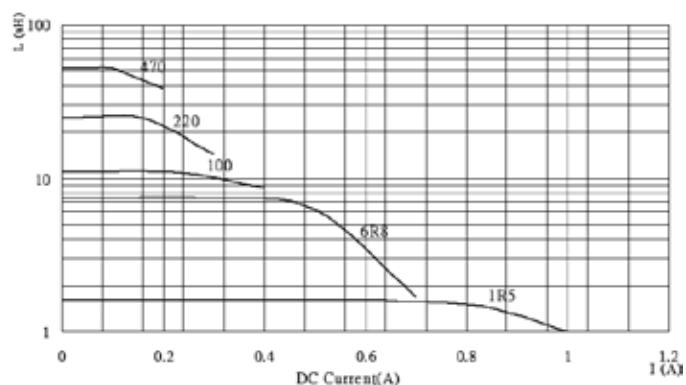
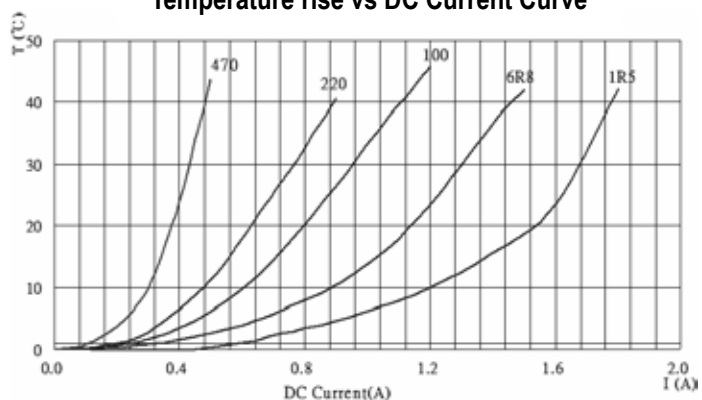
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520V-1R0□	1.0	M,K	30	7.96	150	0.75	245
SMD2520V-1R2□	1.2	M,K	30	7.96	130	0.87	230
SMD2520V-1R5□	1.5	M,K	30	7.96	120	1.00	220
SMD2520V-1R8□	1.8	M,K	30	7.96	110	1.10	210
SMD2520V-2R2□	2.2	M,K	30	7.96	105	1.30	200
SMD2520V-2R7□	2.7	M,K	30	7.96	70	1.40	195
SMD2520V-3R3□	3.3	M,K	30	7.96	55	1.60	185
SMD2520V-3R9□	3.9	K,J	30	7.96	48	1.70	180
SMD2520V-4R7□	4.7	K,J	30	7.96	43	1.90	175
SMD2520V-5R6□	5.6	K,J	30	7.96	42	2.20	170
SMD2520V-6R8□	6.8	K,J	30	7.96	39	2.40	165
SMD2520V-8R2□	8.2	K,J	30	7.96	36	2.60	160
SMD2520V-100□	10	K,J	25	2.52	33	2.20	155
SMD2520V-120□	12	K,J	25	2.52	30	2.50	150
SMD2520V-150□	15	K,J	25	2.52	26	2.80	140
SMD2520V-180□	18	K,J	25	2.52	22	3.20	130
SMD2520V-220□	22	K,J	25	2.52	21	3.60	125
SMD2520V-270□	27	K,J	25	2.52	19	4.30	115
SMD2520V-330□	33	K,J	25	2.52	17	4.70	110
SMD2520V-390□	39	K,J	25	2.52	15	8.10	85
SMD2520V-470□	47	K,J	25	2.52	14	8.80	80
SMD2520V-560□	56	K,J	25	2.52	13	10.0	75
SMD2520V-680□	68	K,J	25	2.52	12	11.5	70
SMD2520V-820□	82	K,J	25	2.52	11	12.5	65
SMD2520V-101□	100	K,J	15	0.796	10	13.0	60

Typical performance curves :



**● SMD 2520VP series**

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520VP -1R0□	1.0	M,K	20	7.96	130	0.30	480
SMD2520VP -1R5□	1.5	M,K	20	7.96	95	0.38	435
SMD2520VP -2R2□	2.2	M,K	20	7.96	75	0.44	390
SMD2520VP -3R3□	3.3	M,K	20	7.96	60	0.57	340
SMD2520VP -4R7□	4.7	M,K	20	7.96	50	0.68	310
SMD2520VP -6R8□	6.8	K,J	20	7.96	40	0.89	295
SMD2520VP -100□	10	K,J	30	2.52	33	1.1	220
SMD2520VP -150□	15	K,J	30	2.52	28	1.7	180
SMD2520VP -220□	22	K,J	30	2.52	23	2.5	160
SMD2520VP -330□	33	K,J	30	2.52	18	3.8	130
SMD2520VP -470□	47	K,J	30	2.52	15	5.4	100

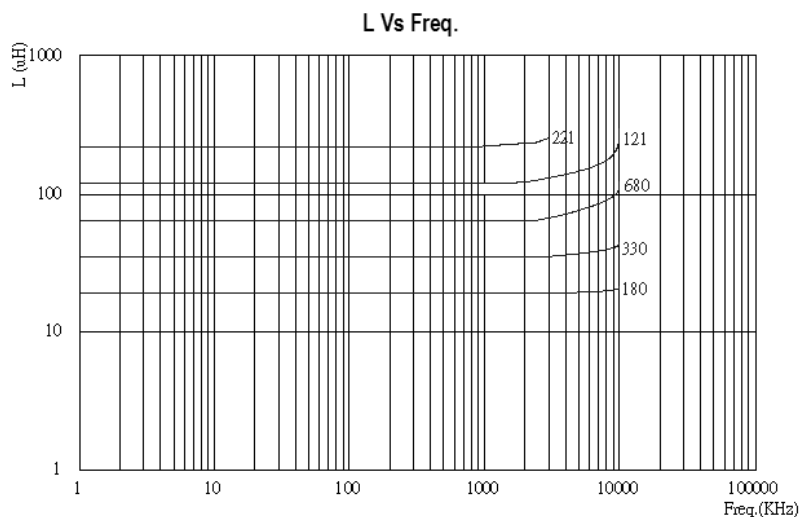
Typical performance curves :**Inductance vs DC Current Curve****Temperature rise vs DC Current Curve**



● SMD 3225V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225V -1R0□	1.0	M,K	30	7.96	120	0.70	400
SMD3225V -1R2□	1.2	M,K	30	7.96	100	0.75	390
SMD3225V -1R5□	1.5	M,K	30	7.96	85	0.85	370
SMD3225V -1R8□	1.8	M,K	30	7.96	80	0.90	350
SMD3225V -2R2□	2.2	K,J	30	7.96	75	1.0	320
SMD3225V -2R7□	2.7	K,J	30	7.96	70	1.1	290
SMD3225V -3R3□	3.3	K,J	30	7.96	60	1.2	260
SMD3225V -3R9□	3.9	K,J	30	7.96	55	1.3	250
SMD3225V -4R7□	4.7	K,J	30	7.96	50	1.5	220
SMD3225V -5R6□	5.6	K,J	30	7.96	45	1.6	200
SMD3225V -6R8□	6.8	K,J	30	7.96	40	1.8	180
SMD3225V -8R2□	8.2	K,J	30	7.96	35	2.0	170
SMD3225V -100□	10	K,J	30	2.52	30	2.1	150
SMD3225V -120□	12	K,J	30	2.52	20	2.5	140
SMD3225V -150□	15	K,J	30	2.52	20	2.8	130
SMD3225V -180□	18	K,J	30	2.52	20	3.3	120
SMD3225V -220□	22	K,J	30	2.52	20	3.7	110
SMD3225V -270□	27	K,J	30	2.52	20	5.0	80
SMD3225V -330□	33	K,J	30	2.52	17	5.6	70
SMD3225V -390□	39	K,J	30	2.52	16	6.4	65
SMD3225V -470□	47	K,J	30	2.52	15	7.0	60
SMD3225V -560□	56	K,J	30	2.52	13	8.0	55
SMD3225V -680□	68	K,J	30	2.52	12	9.0	50
SMD3225V -820□	82	K,J	30	2.52	11	10	45
SMD3225V -101□	100	K,J	20	0.796	10	10	40
SMD3225V -121□	120	K,J	20	0.796	10	11	70
SMD3225V -151□	150	K,J	20	0.796	8	15	65
SMD3225V -181□	180	K,J	20	0.796	7	17	60
SMD3225V -221□	220	K,J	20	0.796	7	21	50

Typical performance curves :



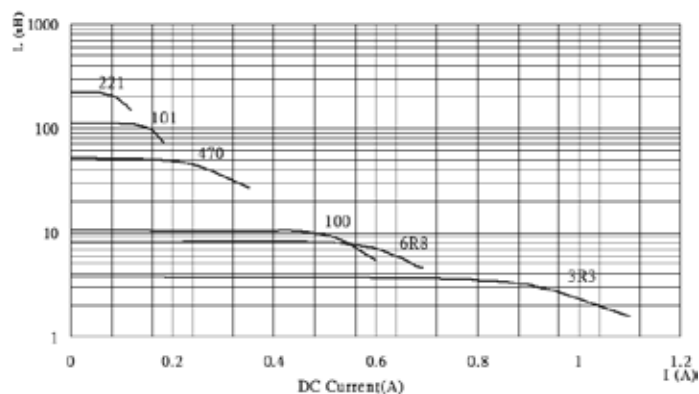


● SMD 3225VP series

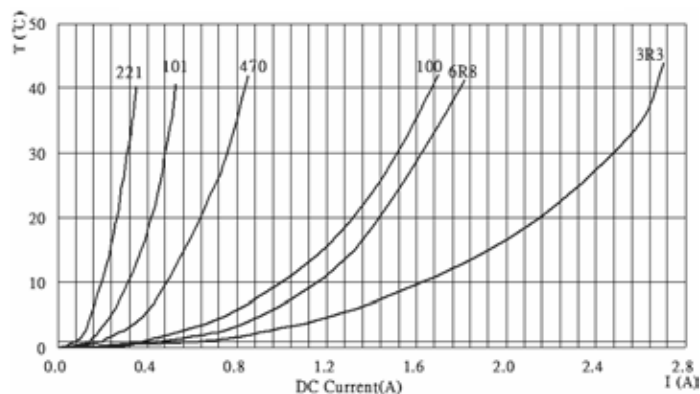
Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225VP -1R0□	1.0	M,K	10	7.96	100	0.10	1000
SMD3225VP -1R5□	1.5	M,K	10	7.96	80	0.14	830
SMD3225VP -2R2□	2.2	M,K	10	7.96	68	0.17	770
SMD3225VP -3R3□	3.3	M,K	10	7.96	54	0.21	690
SMD3225VP -4R7□	4.7	K,J	15	7.96	46	0.26	620
SMD3225VP -6R8□	6.8	K,J	15	7.96	38	0.35	530
SMD3225VP -100□	10	K,J	15	2.52	30	0.47	450
SMD3225VP -150□	15	K,J	15	2.52	26	0.73	370
SMD3225VP -220□	22	K,J	15	2.52	21	1.00	300
SMD3225VP -330□	33	K,J	15	2.52	17	1.43	240
SMD3225VP -470□	47	K,J	15	2.52	14	2.10	180
SMD3225VP -680□	68	K,J	15	2.52	12	3.60	140
SMD3225VP -101□	100	K,J	15	0.796	10	4.80	120
SMD3225VP -151□	150	K,J	20	0.796	8.0	7.90	100
SMD3225VP -221□	220	K,J	20	0.796	7.0	10.9	80
SMD3225VP -331□	330	K,J	20	0.796	6.0	16.0	70
SMD3225VP -471□	470	K,J	20	0.796	4.0	28.6	50
SMD3225VP -681□	680	K,J	20	0.796	3.0	36.4	40

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



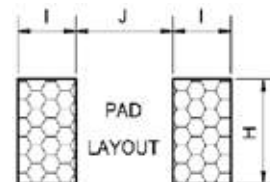
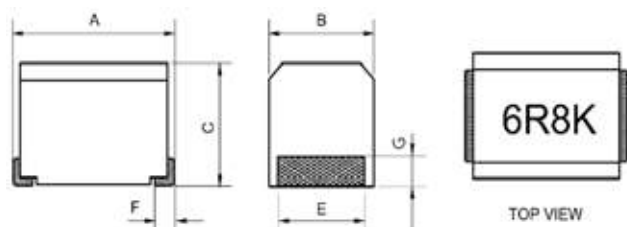
SMD SERIES

WIRE WOUND SMD CHIP INDUCTORS

Applications :

- Communication infrastructures Including xDSL and mobile base stations.
- Onboard automobile equipment Including car audio and ECU systems.
- Audio-visual equipment including TVs and VCRs.
- Other electronic equipment including HDDs and ODDs.

Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	G	H	I	J
SMD4532V(P)	4.5±0.3	3.2±0.2	3.2±0.2	2.6±0.1	0.5	0.8	2.8	1.5	3.0
SMD5650V	5.6±0.3	5.0±0.2	4.0±0.3	4.0±0.1	0.7±0.1	1.1	4.5	2.0	4.0

Features :

- Wire wound SMD inductors .
- Highly accurate dimensions and reliable performance
- SMD4532VP / SMD5650V are low Rdc, higher current for the power supply line applications.
- SMD5650VL is low size type, the specification is similar as the Unshielder power inductors – SMTDR0402 type.
- Good heat durability that withstands lead-free compatible reflow soldering conditions.

Characteristics :

- Rated Current: It is either the inductance is 25% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temperature : -40°C to 105°C
(Including self-temperature rise).

Product identification :

SMD 4532 V P - 100 K

(1) (2) (3) (4) (5) (6)

- (1) Type : **Surface Mount Devices.**
- (2) Style : **L=4.5 mm W=3.2mm Ht=3.2mm.**
- (3) "V": Vertical Structure.
- (4) "P": For Power Line. "L" : Low size.
- (5) Inductance : **100** for **10** uH.
- (6) Inductance tolerance: **J** : $\pm 5\%$; **K** : $\pm 10\%$;
M : $\pm 20\%$.

Test equipments :

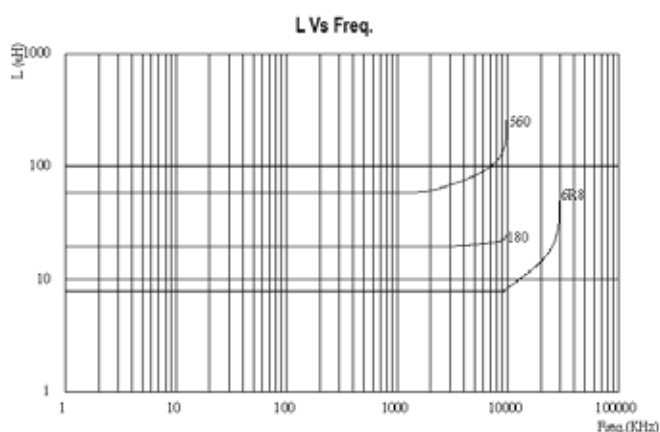
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



● SMD 4532V series

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD4532V -1R0□	1.0	M,K	50	7.96	100	0.50	450
SMD4532V -1R2□	1.2	M,K	50	7.96	80	0.55	430
SMD4532V -1R5□	1.5	M,K	50	7.96	70	0.60	410
SMD4532V -1R8□	1.8	M,K	50	7.96	60	0.65	390
SMD4532V -2R2□	2.2	M,K	50	7.96	55	0.70	380
SMD4532V -2R7□	2.7	M,K	50	7.96	50	0.75	370
SMD4532V -3R3□	3.3	M,K	50	7.96	45	0.80	355
SMD4532V -3R9□	3.9	M,K	50	7.96	40	0.90	330
SMD4532V -4R7□	4.7	M,K	50	7.96	35	1.0	315
SMD4532V -5R6□	5.6	K,J	50	7.96	33	1.1	300
SMD4532V -6R8□	6.8	K,J	50	7.96	27	1.2	285
SMD4532V -8R2□	8.2	K,J	50	7.96	23	1.4	270
SMD4532V -100□	10	K,J	50	2.52	20	1.5	250
SMD4532V -120□	12	K,J	50	2.52	18	2.0	225
SMD4532V -150□	15	K,J	50	2.52	17	2.5	200
SMD4532V -180□	18	K,J	50	2.52	15	2.8	190
SMD4532V -220□	22	K,J	50	2.52	13	3.2	180
SMD4532V -270□	27	K,J	50	2.52	12	3.6	170
SMD4532V -330□	33	K,J	50	2.52	11	4.0	160
SMD4532V -390□	39	K,J	50	2.52	10	4.5	150
SMD4532V -470□	47	K,J	50	2.52	10	5.0	140
SMD4532V -560□	56	K,J	50	2.52	9.0	5.5	135
SMD4532V -680□	68	K,J	50	2.52	9.0	6.0	130
SMD4532V -820□	82	K,J	50	2.52	8.0	7.0	120
SMD4532V -101□	100	K,J	40	0.796	8.0	8.0	110
SMD4532V -121□	120	K,J	40	0.796	6.0	8.0	110
SMD4532V -151□	150	K,J	40	0.796	5.0	9.0	105
SMD4532V -181□	180	K,J	40	0.796	5.0	9.5	105
SMD4532V -221□	220	K,J	40	0.796	4.0	10	100
SMD4532V -271□	270	K,J	40	0.796	4.0	12	92
SMD4532V -331□	330	K,J	40	0.796	3.5	14	85
SMD4532V -391□	390	K,J	40	0.796	3.0	16	80
SMD4532V -471□	470	K,J	40	0.796	3.0	26	62
SMD4532V -561□	560	K,J	40	0.796	3.0	30	50

Typical performance curves



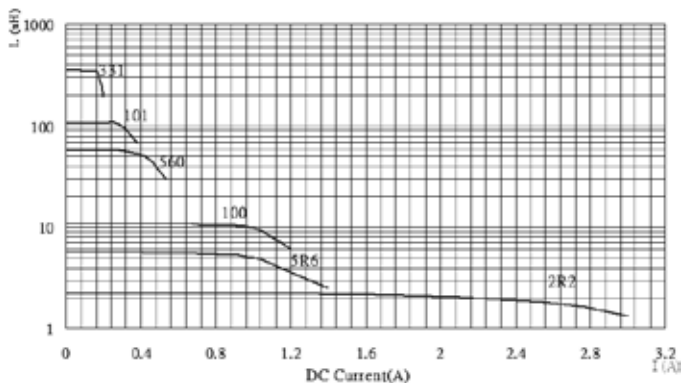


● **SMD 4532VP series**

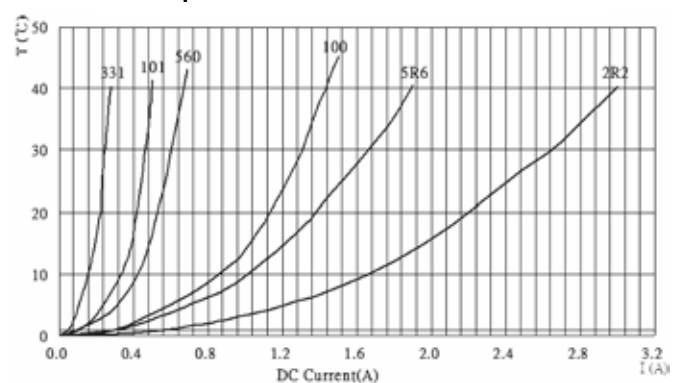
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD4532VP -1R0□	1.0	M,K	10	7.96	100	0.11	1050
SMD4532VP -1R2□	1.2	M,K	10	7.96	90	0.12	1000
SMD4532VP -1R5□	1.5	M,K	10	7.96	80	0.15	950
SMD4532VP -1R8□	1.8	M,K	10	7.96	70	0.16	900
SMD4532VP -2R2□	2.2	M,K	10	7.96	65	0.18	850
SMD4532VP -2R7□	2.7	M,K	10	7.96	60	0.20	800
SMD4532VP -3R3□	3.3	M,K	10	7.96	45	0.22	750
SMD4532VP -3R9□	3.9	M,K	10	7.96	40	0.24	700
SMD4532VP -4R7□	4.7	K,J	10	7.96	35	0.27	650
SMD4532VP -5R6□	5.6	K,J	10	7.96	30	0.30	650
SMD4532VP -6R8□	6.8	K,J	10	7.96	28	0.35	600
SMD4532VP -8R2□	8.2	K,J	10	7.96	25	0.4	600
SMD4532VP -100□	10	K,J	10	2.52	22	0.5	550
SMD4532VP -120□	12	K,J	10	2.52	21	0.6	500
SMD4532VP -150□	15	K,J	10	2.52	20	0.7	450
SMD4532VP -180□	18	K,J	10	2.52	19	0.8	400
SMD4532VP -220□	22	K,J	10	2.52	18	0.9	370
SMD4532VP -270□	27	K,J	10	2.52	16	1.2	330
SMD4532VP -330□	33	K,J	10	2.52	14	1.4	300
SMD4532VP -390□	39	K,J	10	2.52	12	1.6	280
SMD4532VP -470□	47	K,J	10	2.52	11.5	1.9	260
SMD4532VP -560□	56	K,J	10	2.52	11.0	2.2	240
SMD4532VP -680□	68	K,J	10	2.52	10.0	2.6	220
SMD4532VP -820□	82	K,J	10	2.52	9.0	3.5	200
SMD4532VP -101□	100	K,J	20	0.796	8.0	4.0	180
SMD4532VP -121□	120	K,J	20	0.796	7.5	4.5	160
SMD4532VP -151□	150	K,J	20	0.796	7.0	6.5	140
SMD4532VP -181□	180	K,J	20	0.796	6.5	7.5	120
SMD4532VP -221□	220	K,J	20	0.796	5.5	9.0	120
SMD4532VP -271□	270	K,J	20	0.796	5.0	11	100
SMD4532VP -331□	330	K,J	20	0.796	4.0	13	90

Typical performance curves :

Inductance vs DC Current Curve



Temperature rise vs DC Current Curve





● **SMD 5650V series**

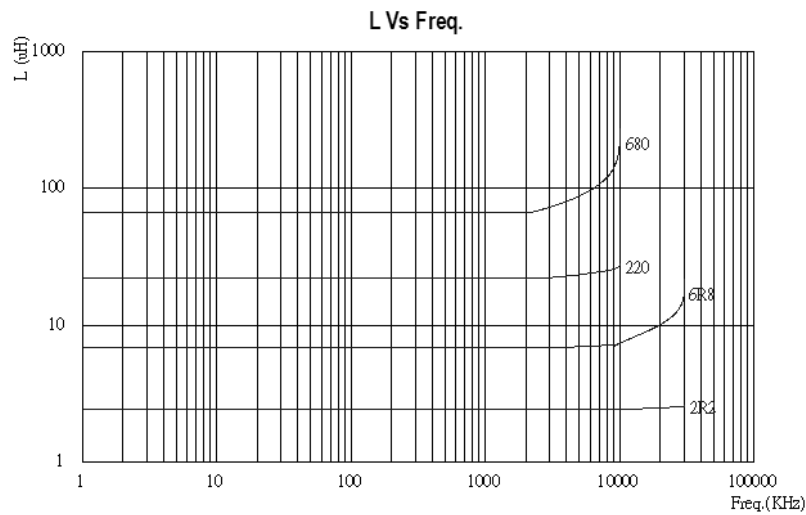
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD5650V-1R0□	1.0	M,K	10	7.96	95	0.030	1800
SMD5650V-1R2□	1.2	M,K	10	7.96	70	0.035	1700
SMD5650V-1R5□	1.5	M,K	10	7.96	55	0.04	1600
SMD5650V-1R8□	1.8	M,K	10	7.96	47	0.05	1400
SMD5650V-2R2□	2.2	M,K	10	7.96	42	0.06	1300
SMD5650V-2R7□	2.7	M,K	10	7.96	37	0.07	1200
SMD5650V-3R3□	3.3	M,K	10	7.96	34	0.08	1120
SMD5650V-3R9□	3.9	M,K	10	7.96	32	0.09	1050
SMD5650V-4R7□	4.7	M,K	10	7.96	29	0.11	950
SMD5650V-5R6□	5.6	M,K	10	7.96	26	0.13	880
SMD5650V-6R8□	6.8	M,K	10	7.96	24	0.15	810
SMD5650V-8R2□	8.2	M,K	10	7.96	22	0.18	750
SMD5650V-100□	10	M,K	10	2.52	19	0.21	690
SMD5650V-120□	12	M,K	10	2.52	17	0.25	630
SMD5650V-150□	15	M,K	10	2.52	16	0.30	580
SMD5650V-180□	18	M,K	10	2.52	14	0.36	530
SMD5650V-220□	22	K,J	10	2.52	13	0.43	480
SMD5650V-270□	27	K,J	10	2.52	11.5	0.52	440
SMD5650V-330□	33	K,J	10	2.52	10.5	0.62	400
SMD5650V-390□	39	K,J	10	2.52	9.5	0.72	370
SMD5650V-470□	47	K,J	10	2.52	8.5	0.85	340
SMD5650V-560□	56	K,J	10	2.52	7.8	1.0	310
SMD5650V-680□	68	K,J	10	2.52	7.0	1.2	290
SMD5650V-820□	82	K,J	10	2.52	6.4	1.4	270
SMD5650V-101□	100	K,J	20	0.796	6.0	1.6	250
SMD5650V-121□	120	K,J	20	0.796	5.4	1.9	230
SMD5650V-151□	150	K,J	20	0.796	4.8	2.2	210
SMD5650V-181□	180	K,J	20	0.796	4.4	2.8	190
SMD5650V-221□	220	K,J	20	0.796	3.9	3.4	170
SMD5650V-271□	270	K,J	20	0.796	3.6	4.2	155
SMD5650V-331□	330	K,J	20	0.796	3.2	4.9	140
SMD5650V-391□	390	K,J	20	0.796	2.9	5.8	130
SMD5650V-471□	470	K,J	20	0.796	2.6	7.0	120
SMD5650V-561□	560	K,J	20	0.796	2.4	8.5	110
SMD5650V-681□	680	K,J	20	0.796	2.2	10	100
SMD5650V-821□	820	K,J	20	0.796	2.0	13	90
SMD5650V-102□	1000	K,J	20	0.252	1.8	15	85
SMD5650V-122□	1200	K,J	20	0.252	1.5	17	75
SMD5650V-152□	1500	K,J	20	0.252	1.4	20	70
SMD5650V-182□	1800	K,J	20	0.252	1.3	30	60
SMD5650V-222□	2200	K,J	20	0.252	1.2	35	55
SMD5650V-272□	2700	K,J	20	0.252	1.1	55	45
SMD5650V-332□	3300	K,J	20	0.252	1.0	60	40
SMD5650V-392□	3900	K,J	20	0.252	1.0	70	38
SMD5650V-472□	4700	K,J	20	0.252	0.9	78	36



● **SMD 5650V series**

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD5650V-562□	5600	K,J	20	0.252	0.8	85	33
SMD5650V-682□	6800	K,J	20	0.252	0.7	110	30
SMD5650V-822□	8200	K,J	20	0.252	0.6	125	28
SMD5650V-103□	10000	K,J	15	0.0796	0.5	150	25

Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDR32P SERIES

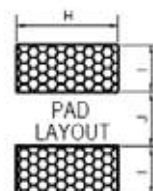
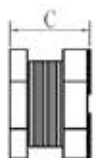
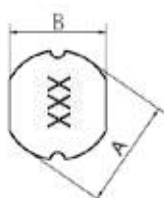
UNSHIELDED SMT POWER INDUCTORS

Applications :

- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C
SMTDR32P	3.5±0.3	3.0±0.3	2.0±0.3

Item	H	I	J
SMTDR32P	3.5	1.6	0.8

Features :

- Silver Plated Type, Low cost designed.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temperature : -30°C to 105°C .

Product identification :

SMT DR32 P - 1R0 K

(1) (2) (3) (4) (5)

(1)Type : **Surface Mountable Type** .

(2)Style : **DR** Core : **OD=3.5mm**, **HT=2.0mm**.

(3) P: Parallel

(4)Inductance : **1R0** for **1** μH .

(5)Inductance tolerance : "**N**": $\pm 30\%$; "**M**": $\pm 20\%$

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .



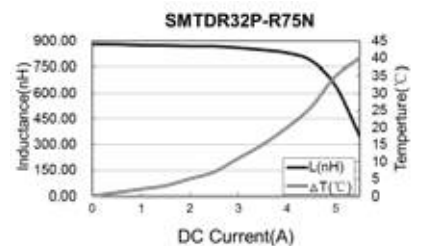
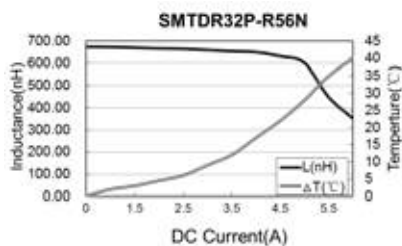
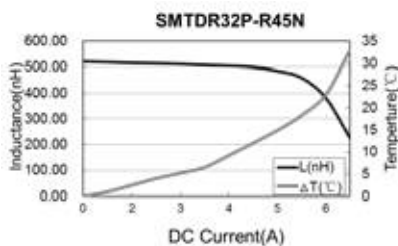
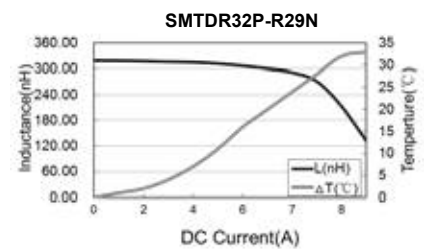
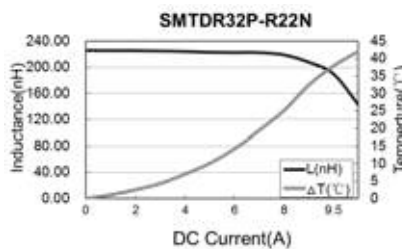
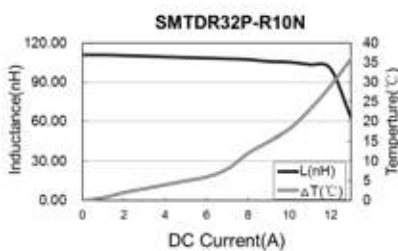
● SMTDR32P series

Part No.	Inductance L (uH)	Test Freq. (0.1V)	DCR m(Ω) Max.	Rated Current (A) Max.
SMTDR32P-R10□	0.1	7.96MHZ	6.2	8.0
SMTDR32P-R22□	0.22	7.96MHZ	10.0	7.0
SMTDR32P-R29□	0.29	7.96MHZ	18.0	5.0
SMTDR32P-R45□	0.45	7.96MHZ	24.5	3.9
SMTDR32P-R56□	0.56	7.96MHZ	30.0	3.6
SMTDR32P-R75□	0.75	7.96MHZ	36.0	3.3
SMTDR32P-1R0□	1.0	7.96MHZ	43.0	3.0
SMTDR32P-1R2□	1.2	7.96MHZ	47.0	2.6
SMTDR32P-1R5□	1.5	7.96MHZ	55.0	2.4
SMTDR32P-2R2□	2.2	7.96MHZ	75.0	2.0
SMTDR32P-3R0□	3.0	7.96MHZ	91.0	1.8
SMTDR32P-3R9□	3.9	7.96MHZ	120.0	1.6
SMTDR32P-4R7□	4.7	7.96MHZ	160.0	1.5
SMTDR32P-5R6□	5.6	7.96MHZ	180.0	1.4

Tolerance of Inductance :

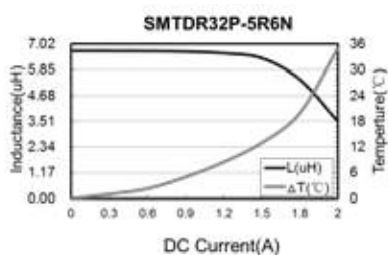
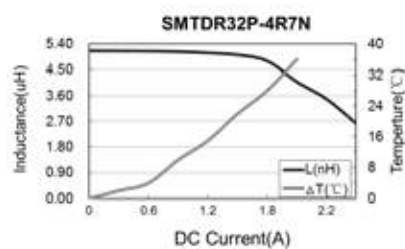
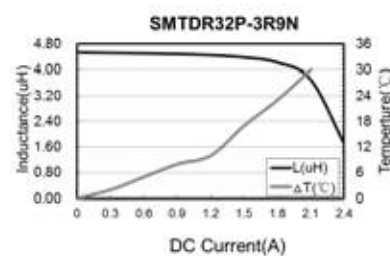
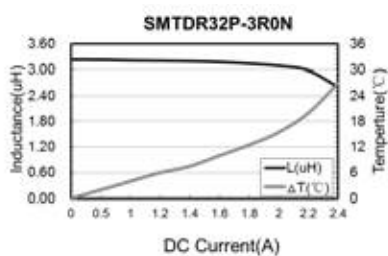
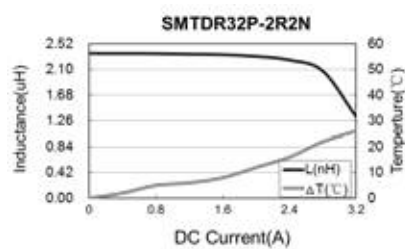
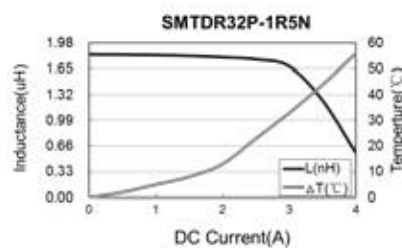
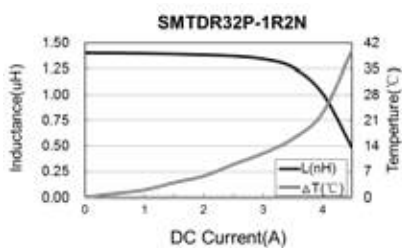
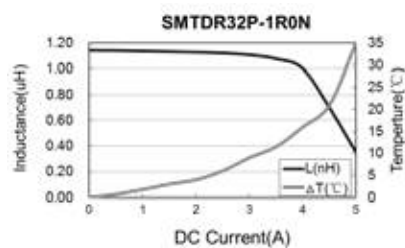
SMTDR32P 0.1~5.6uH (M) +~20%;(N)+~30%

Typical performance curves:





Typical performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDR SERIES

UNSHIELDED SMT POWER INDUCTORS

Applications :

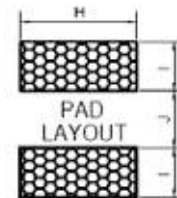
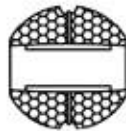
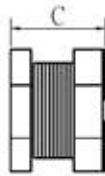
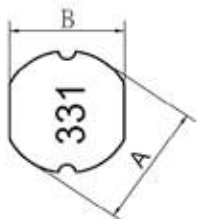
- Power supply for VTRs. LCD televisions.
- Notebook PCs, Portable communication equipment
- DC/DC converters ,etc

Features :

- Silver Plated Type, Low cost designed
- Available on tape and reel for auto surface mounting.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C
SMTDR32	3.5±0.3	3.0±0.3	2.0±0.3
SMTDR43	4.5±0.3	4.0±0.3	3.2±0.3
SMTDR53	5.8±0.3	5.2±0.3	3.0±0.3
SMTDR54	5.8±0.3	5.2±0.3	4.5±0.35
SMTDR75	7.8±0.3	7.0±0.3	5.0±0.5
SMTDR105	10.0±0.3	9.0±0.3	5.4±0.4
SMTDR107	10.0±0.3	9.0±0.3	7.5 Max.

Item	H	I	J
SMTDR32	3.5	1.6	0.8
SMTDR43	4.5	1.75	1.5
SMTDR53	5.5	2.15	1.7
SMTDR54	5.5	2.15	1.7
SMTDR75	7.5	3.0	2.0
SMTDR105	9.5	3.75	2.5
SMTDR107	9.5	3.75	2.5

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 10% lower than its initial value.(Ta=20°C).
- Temperature Rise Current(Irms):The current when the temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$.(Ta=20°C)
- Operating temperature : -30°C to 105°C.

Product Identification :

SMT DR105 - 331 K

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : **DR** Core : **OD**=10mm, **HT**=5.4mm.

(3)Inductance : **331** for **330** uH.

(4)Inductance tolerance : "**M**": ±20%; "**L**": ±15%; "**K**": ±10%

Measuring Frequency :

- SMTDR32/43/52/53/54
1.0~8.2uH@ 7.96MHz 0.25V ; 10~82uH@ 2.52MHz 0.25V
100~470uH@ 1kHz 0.25V
- SMTDR73/75/104/105
10~82uH@ 2.52MHz 0.25V ; 100~820uH @ 1kHz 0.25V

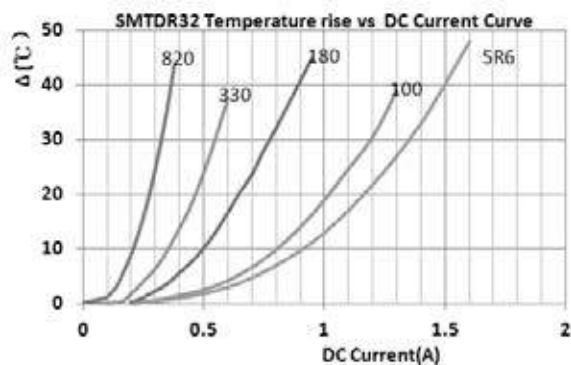
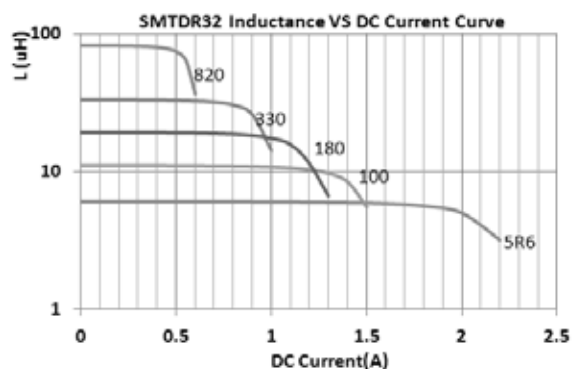
- SMTDR107
10~82uH@ 2.52MHz 0.25V ; 100~820uH@ 1kHz 0.25V
- SMTDR137
1.5~1000uH@ 100KHZ 0.1V



● SMTDR32 series

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR32-1R0M	1.0	45m	30m	3.30	4.10	2.60	3.10
SMTDR32-1R2M	1.2	50m	32m	3.00	3.70	2.50	3.00
SMTDR32-1R5M	1.5	55m	44m	2.70	3.40	2.15	2.60
SMTDR32-1R8M	1.8	70m	49m	2.50	3.20	2.00	2.50
SMTDR32-2R2M	2.2	85m	59m	2.30	2.80	1.80	2.20
SMTDR32-2R7M	2.7	100m	65m	2.20	2.70	1.55	1.90
SMTDR32-3R3M	3.3	120m	96m	1.95	2.40	1.45	1.80
SMTDR32-3R9M	3.9	125m	110m	1.85	2.30	1.40	1.60
SMTDR32-4R7M	4.7	135m	120m	1.60	2.00	1.30	1.50
SMTDR32-5R6M	5.6	165m	140m	1.55	1.90	1.25	1.40
SMTDR32-6R8M	6.8	0.20	0.17	1.40	1.75	1.20	1.38
SMTDR32-8R2M	8.2	0.25	0.19	1.20	1.45	1.15	1.35
SMTDR32-100M	10	0.32	0.24	1.05	1.30	1.10	1.30
SMTDR32-120M	12	0.35	0.27	1.00	1.25	0.90	1.05
SMTDR32-150M	15	0.46	0.37	0.90	1.15	0.75	0.90
SMTDR32-180M	18	0.52	0.40	0.80	1.00	0.70	0.85
SMTDR32-220K	22	0.65	0.57	0.75	0.95	0.56	0.66
SMTDR32-270K	27	0.75	0.66	0.70	0.85	0.53	0.63
SMTDR32-330K	33	0.92	0.76	0.60	0.75	0.52	0.62
SMTDR32-390K	39	1.12	0.97	0.55	0.72	0.43	0.52
SMTDR32-470K	47	1.27	1.10	0.50	0.65	0.40	0.47
SMTDR32-560K	56	1.50	1.30	0.45	0.58	0.35	0.43
SMTDR32-680K	68	2.00	1.52	0.40	0.50	0.33	0.40
SMTDR32-820K	82	2.15	1.83	0.35	0.47	0.30	0.37
SMTDR32-101K	100	2.80	2.46	0.34	0.42	0.28	0.33
SMTDR32-121K	120	3.40	2.74	0.33	0.41	0.26	0.31
SMTDR32-151K	150	4.20	3.12	0.28	0.35	0.23	0.28
SMTDR32-181K	180	4.50	3.58	0.27	0.34	0.21	0.25
SMTDR32-221K	220	5.70	5.05	0.25	0.31	0.19	0.23
SMTDR32-271K	270	8.50	5.92	0.22	0.27	0.17	0.20
SMTDR32-331K	330	9.50	6.96	0.19	0.24	0.15	0.18

Typical Performance curves:

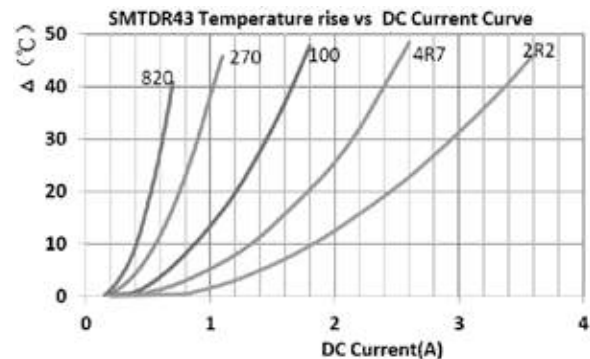
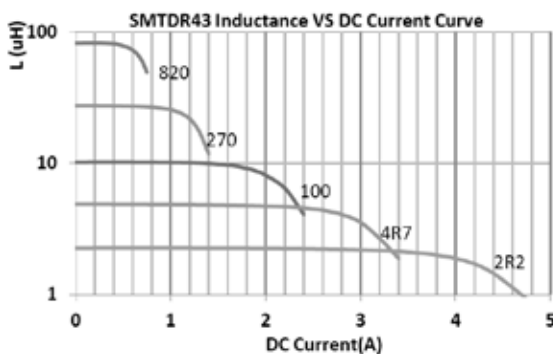




● **SMTDR43 series**

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR43-1R0M	1.0	26m	17m	3.85	4.80	3.40	4.20
SMTDR43-1R4M	1.4	35m	23m	3.44	4.30	3.00	3.70
SMTDR43-2R2M	2.2	42m	28m	2.80	3.50	2.75	3.40
SMTDR43-2R7M	2.7	48m	32m	2.75	3.45	2.45	3.15
SMTDR43-3R3M	3.3	60m	40m	2.48	3.10	2.35	2.85
SMTDR43-3R9M	3.9	65m	43m	2.32	2.90	2.00	2.60
SMTDR43-4R7M	4.7	76m	56m	2.00	2.50	1.98	2.40
SMTDR43-5R6M	5.6	103m	76m	1.96	2.45	1.80	2.20
SMTDR43-6R8M	6.8	119m	88m	1.60	2.00	1.62	2.00
SMTDR43-8R2M	8.2	134m	99m	1.52	1.90	1.42	1.82
SMTDR43-100M	10	0.14	0.11	1.44	1.80	1.38	1.62
SMTDR43-120M	12	0.19	0.15	1.24	1.55	1.30	1.50
SMTDR43-150M	15	0.21	0.17	1.12	1.40	1.18	1.42
SMTDR43-180M	18	0.27	0.22	1.00	1.25	1.05	1.30
SMTDR43-220M	22	0.31	0.25	0.96	1.20	0.98	1.20
SMTDR43-270M	27	0.36	0.29	0.84	1.05	0.85	1.05
SMTDR43-330K	33	0.42	0.34	0.76	0.95	0.82	1.00
SMTDR43-390K	39	0.48	0.39	0.74	0.92	0.78	0.92
SMTDR43-470K	47	0.56	0.45	0.68	0.85	0.74	0.90
SMTDR43-560K	56	0.81	0.65	0.63	0.78	0.65	0.80
SMTDR43-680K	68	0.92	0.74	0.50	0.62	0.58	0.70
SMTDR43-820K	82	1.06	0.85	0.46	0.58	0.55	0.65
SMTDR43-101K	100	1.18	0.95	0.45	0.57	0.52	0.62
SMTDR43-121K	120	1.31	1.05	0.44	0.56	0.46	0.56
SMTDR43-151K	150	1.97	1.58	0.37	0.46	0.38	0.47
SMTDR43-181K	180	2.55	2.04	0.30	0.38	0.33	0.42
SMTDR43-221K	220	2.90	2.32	0.29	0.37	0.32	0.39
SMTDR43-271K	270	3.31	2.65	0.27	0.34	0.30	0.37
SMTDR43-331K	330	6.92	5.54	0.24	0.30	0.20	0.24

Typical Performance curves:

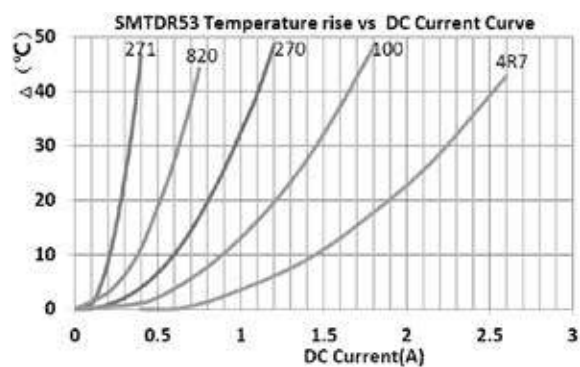
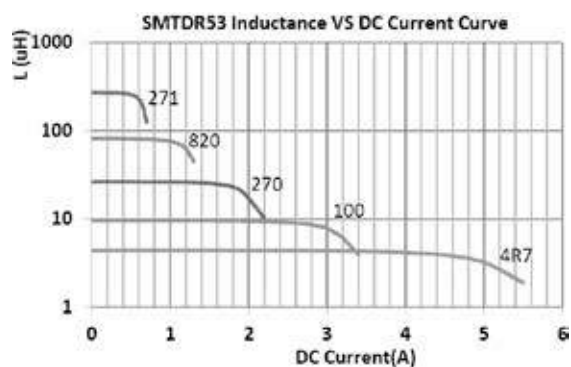




● SMTDR53 series

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR53-1R0M	1.0	18m	13m	6.70	8.40	5.10	6.50
SMTDR53-1R2M	1.2	22m	16m	6.00	7.50	4.10	5.40
SMTDR53-1R5M	1.5	26m	19m	5.60	7.00	4.05	5.10
SMTDR53-1R8M	1.8	28m	21m	5.60	7.00	4.00	5.00
SMTDR53-2R2M	2.2	30m	26m	4.40	5.50	3.70	4.70
SMTDR53-2R7M	2.7	40m	31m	4.25	5.30	3.30	4.20
SMTDR53-3R3M	3.3	50m	35m	4.00	5.00	3.10	3.90
SMTDR53-3R9M	3.9	60m	38m	3.60	4.50	3.00	3.70
SMTDR53-4R7M	4.7	70m	51m	3.15	4.20	2.15	2.50
SMTDR53-5R6M	5.6	80m	60m	2.88	3.60	2.05	2.45
SMTDR53-6R8M	6.8	90m	65m	2.75	3.40	1.98	2.38
SMTDR53-8R2M	8.2	100m	70m	2.65	3.30	1.58	1.90
SMTDR53-100M	10	0.13	0.10	2.15	2.70	1.38	1.65
SMTDR53-120M	12	0.16	0.12	2.00	2.50	1.30	1.62
SMTDR53-150M	15	0.19	0.15	1.85	2.30	1.20	1.50
SMTDR53-180M	18	0.21	0.17	1.68	2.10	1.17	1.40
SMTDR53-220K	22	0.28	0.19	1.45	1.80	1.05	1.30
SMTDR53-270K	27	0.32	0.24	1.35	1.70	0.90	1.10
SMTDR53-330K	33	0.38	0.28	1.20	1.50	0.88	1.08
SMTDR53-390K	39	0.42	0.32	1.10	1.40	0.80	1.00
SMTDR53-470K	47	0.52	0.40	1.05	1.35	0.75	0.90
SMTDR53-560K	56	0.56	0.47	0.95	1.20	0.70	0.88
SMTDR53-680K	68	0.68	0.56	0.88	1.10	0.69	0.85
SMTDR53-820K	82	0.82	0.64	0.80	1.00	0.57	0.72
SMTDR53-101K	100	1.10	0.88	0.75	0.95	0.46	0.65
SMTDR53-121K	120	1.20	1.02	0.68	0.85	0.48	0.59
SMTDR53-151K	150	1.50	1.34	0.64	0.80	0.43	0.53
SMTDR53-181K	180	1.80	1.45	0.56	0.70	0.42	0.50
SMTDR53-221K	220	2.00	1.64	0.48	0.60	0.36	0.44
SMTDR53-271K	270	2.90	2.32	0.44	0.55	0.31	0.38
SMTDR53-331K	330	3.30	2.67	0.40	0.50	0.28	0.34
SMTDR53-391K	390	3.70	3.01	0.38	0.48	0.26	0.32
SMTDR53-471K	470	4.90	3.74	0.36	0.45	0.24	0.28

Typical Performance curves:

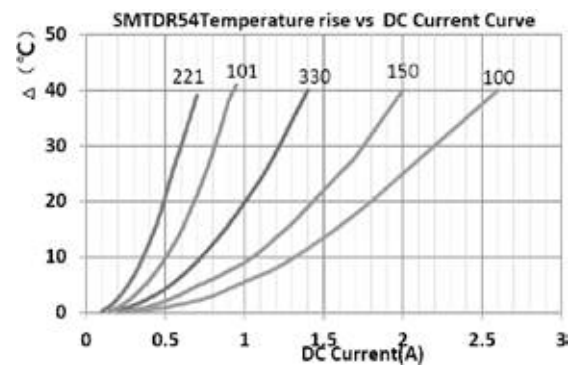
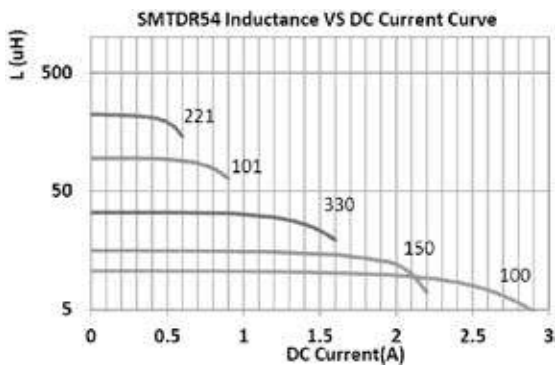




● **SMTDR54 series**

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR54-100M	10	100m	60m	1.60	2.00	2.00	2.60
SMTDR54-120M	12	120m	69m	1.44	1.80	1.80	2.20
SMTDR54-150M	15	140m	81m	1.28	1.60	1.60	2.00
SMTDR54-180M	18	150m	90m	1.16	1.45	1.56	1.90
SMTDR54-220M	22	0.18	0.11	1.12	1.40	1.37	1.70
SMTDR54-270M	27	0.20	0.13	1.04	1.30	1.20	1.50
SMTDR54-330K	33	0.23	0.15	0.96	1.20	1.15	1.40
SMTDR54-390K	39	0.32	0.21	0.85	1.05	1.10	1.35
SMTDR54-470K	47	0.37	0.24	0.80	1.00	1.05	1.30
SMTDR54-560K	56	0.42	0.27	0.72	0.90	0.95	1.20
SMTDR54-680K	68	0.46	0.31	0.68	0.85	0.90	1.10
SMTDR54-820K	82	0.60	0.40	0.64	0.80	0.80	1.00
SMTDR54-101K	100	0.70	0.45	0.56	0.70	0.75	0.90
SMTDR54-121K	120	0.93	0.52	0.52	0.65	0.70	0.85
SMTDR54-151K	150	1.10	0.75	0.44	0.55	0.62	0.80
SMTDR54-181K	180	1.38	0.90	0.40	0.50	0.58	0.75
SMTDR54-221K	220	1.57	1.05	0.36	0.45	0.55	0.70
SMTDR54-271K	270	1.65	1.25	0.33	0.41	0.50	0.65
SMTDR54-331K	330	1.80	1.43	0.30	0.38	0.45	0.60

Typical Performance curves:

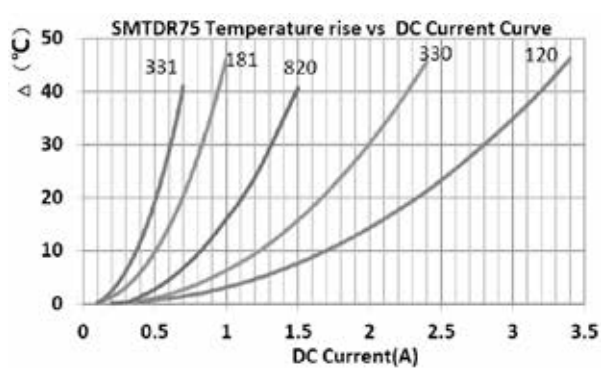
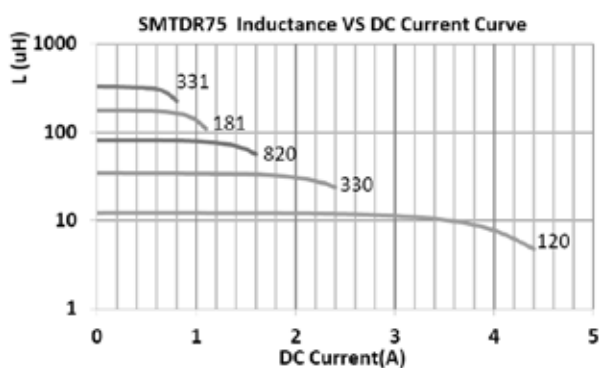




● SMTDR75 series

Part NO.	L(μ H)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR75-100K	10	70m	33m	2.88	3.60	3.20	3.80
SMTDR75-120K	12	80m	46m	2.56	3.20	2.60	3.20
SMTDR75-150K	15	90m	53m	2.25	2.80	2.55	3.10
SMTDR75-180K	18	100m	59m	2.08	2.60	2.25	2.80
SMTDR75-220K	22	110m	70m	1.95	2.40	2.10	2.60
SMTDR75-270K	27	120m	87m	1.75	2.20	1.98	2.40
SMTDR75-330K	33	0.13	0.10	1.52	1.90	1.82	2.25
SMTDR75-390K	39	0.16	0.12	1.44	1.80	1.62	2.00
SMTDR75-470K	47	0.18	0.14	1.28	1.60	1.50	1.90
SMTDR75-560K	56	0.24	0.17	1.20	1.50	1.43	1.80
SMTDR75-680K	68	0.28	0.20	1.12	1.40	1.30	1.60
SMTDR75-820K	82	0.37	0.23	1.04	1.30	1.23	1.50
SMTDR75-101K	100	0.43	0.28	0.92	1.15	1.08	1.32
SMTDR75-121K	120	0.47	0.35	0.80	1.00	0.99	1.20
SMTDR75-151K	150	0.64	0.40	0.72	0.90	0.90	1.10
SMTDR75-181K	180	0.71	0.53	0.68	0.85	0.76	0.94
SMTDR75-221K	220	0.96	0.61	0.64	0.80	0.70	0.85
SMTDR75-271K	270	1.11	0.72	0.56	0.70	0.65	0.80
SMTDR75-331K	330	1.26	0.95	0.52	0.65	0.58	0.70
SMTDR75-391K	390	1.77	1.28	0.44	0.55	0.49	0.60
SMTDR75-471K	470	1.96	1.46	0.40	0.50	0.47	0.58

Typical Performance curves:

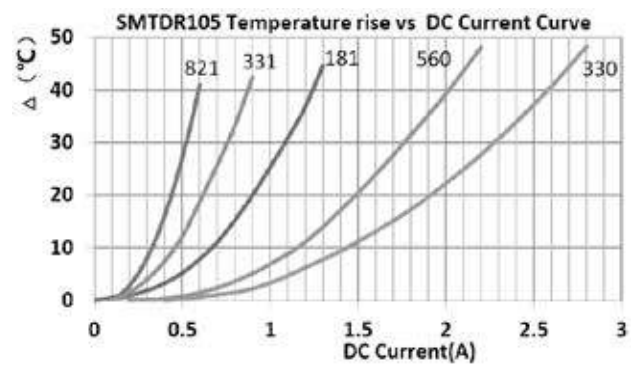
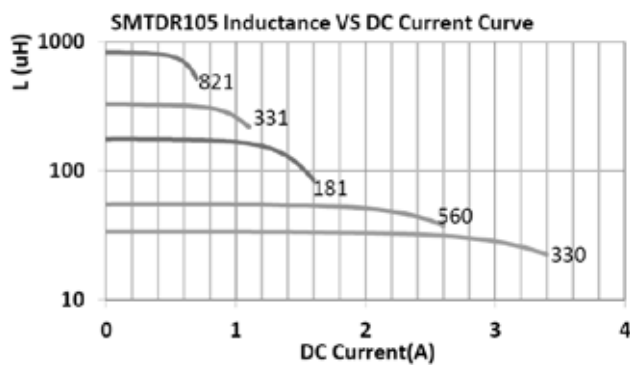




● **SMTDR105 series**

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR105-100M	10	60m	26m	4.00	5.00	4.00	4.50
SMTDR105-120M	12	70m	31m	3.50	4.40	3.50	4.25
SMTDR105-150M	15	80m	36m	3.05	3.80	2.70	3.48
SMTDR105-180M	18	90m	46m	2.90	3.60	2.40	3.10
SMTDR105-220M	22	100m	52m	2.55	3.20	2.38	2.95
SMTDR105-270M	27	110m	62m	2.25	2.80	2.25	2.80
SMTDR105-330M	33	120m	74m	2.10	2.60	2.15	2.60
SMTDR105-390M	39	140m	93m	2.00	2.50	2.00	2.40
SMTDR105-470K	47	0.17	0.10	1.95	2.40	1.80	2.20
SMTDR105-560K	56	0.19	0.12	1.70	2.10	1.62	2.02
SMTDR105-680K	68	0.22	0.15	1.50	1.90	1.58	1.97
SMTDR105-820K	82	0.25	0.18	1.35	1.70	1.30	1.60
SMTDR105-101K	100	0.35	0.21	1.20	1.50	1.28	1.58
SMTDR105-121K	120	0.40	0.24	1.15	1.40	1.15	1.45
SMTDR105-151K	150	0.47	0.30	1.05	1.30	1.10	1.39
SMTDR105-181K	180	0.63	0.36	0.88	1.10	1.00	1.25
SMTDR105-221K	220	0.73	0.45	0.85	1.05	0.96	1.18
SMTDR105-271K	270	0.97	0.56	0.80	1.00	0.82	1.00
SMTDR105-331K	330	1.15	0.65	0.76	0.95	0.70	0.89
SMTDR105-391K	390	1.30	0.75	0.65	0.80	0.65	0.80
SMTDR105-471K	470	1.48	0.93	0.56	0.70	0.62	0.78
SMTDR105-561K	560	1.90	1.10	0.52	0.65	0.60	0.74
SMTDR105-681K	680	2.25	1.30	0.48	0.60	0.54	0.65
SMTDR105-821K	820	2.55	1.65	0.44	0.55	0.49	0.60

Typical Performance curves:

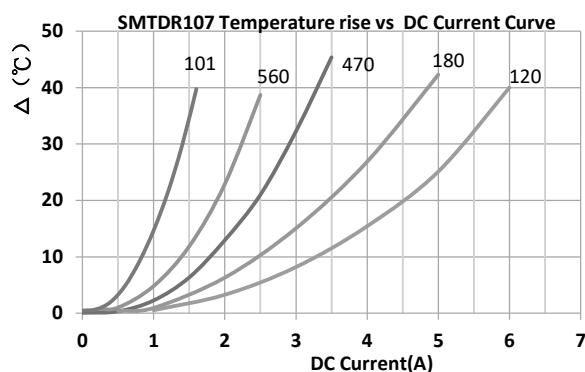
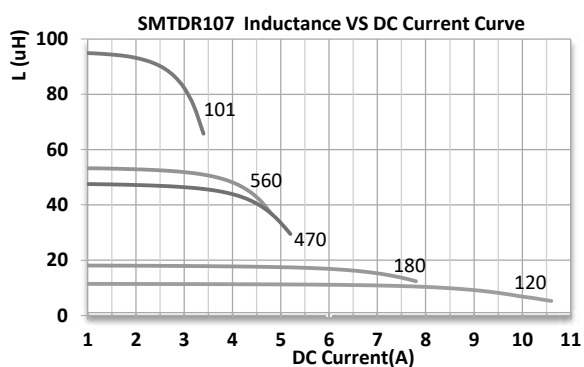




● SMTDR107 series

Part NO.	L(μH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDR107-100M	10	34m	26m	7.31	8.60	5.20	6.10
SMTDR107-120M	12	37m	27m	6.80	8.00	5.00	6.00
SMTDR107-150M	15	46m	37m	6.12	7.20	4.30	5.10
SMTDR107-180M	18	52m	41m	5.44	6.40	3.90	4.80
SMTDR107-220M	22	66m	48m	5.10	6.00	3.80	4.70
SMTDR107-270M	27	78m	63m	4.76	5.60	3.25	4.05
SMTDR107-330M	33	89m	71m	4.25	5.00	3.10	3.90
SMTDR107-390M	39	116m	92m	3.91	4.60	2.70	3.30
SMTDR107-470M	47	0.12	0.10	3.57	4.20	2.60	3.25
SMTDR107-560M	56	0.15	0.12	3.40	4.00	2.05	2.50
SMTDR107-680M	68	0.18	0.15	3.06	3.60	1.98	2.40
SMTDR107-820M	82	0.21	0.17	2.72	3.20	1.60	2.00
SMTDR107-101K	100	0.27	0.22	2.47	2.90	1.50	1.80
SMTDR107-121K	120	0.29	0.25	2.30	2.70	1.40	1.60
SMTDR107-151K	150	0.38	0.31	1.96	2.30	1.30	1.50
SMTDR107-181K	180	0.43	0.35	1.87	2.20	1.18	1.45
SMTDR107-221K	220	0.54	0.44	1.70	2.00	0.98	1.20
SMTDR107-271K	270	0.62	0.50	1.53	1.80	0.90	1.10
SMTDR107-331K	330	0.81	0.68	1.28	1.50	0.78	0.95
SMTDR107-391K	390	0.90	0.76	1.19	1.40	0.75	0.92
SMTDR107-471K	471	1.00	0.86	1.08	1.35	0.70	0.85
SMTDR107-561K	560	1.29	1.06	1.02	1.20	0.65	0.78
SMTDR107-681K	680	1.66	1.40	0.94	1.10	0.53	0.65
SMTDR107-821K	820	1.92	1.60	0.77	0.90	0.50	0.62

Typical Performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTSDR SERIES

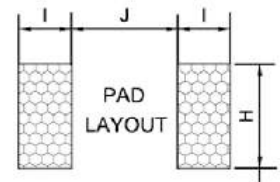
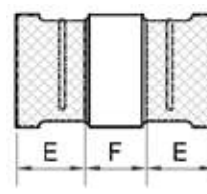
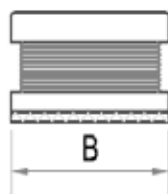
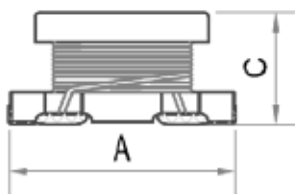
MINIATURE SMD CHIP CHOKE COILS

Applications :

- Pagers, Cordless phone.
- High Freq. Communication Products.
- Personal computers.
- Disk Drives and computer peripherals.
- DC power supply circuits.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E Min.	F Min.	H	I	J
SMTSDR322515	3.2±0.3	2.5±0.2	1.55±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR321618C	3.2±0.3	1.6±0.2	1.8±0.3	0.7	0.7	1.5	1.5	1.0
SMTSDR322520(C)	3.2±0.3	2.5±0.2	2.0±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR453226(C)	4.5±0.3	3.2±0.2	2.6±0.3	1.0	1.0	3.0	2.0	1.2
SMTSDR575047C	5.7±0.3	5.0±0.3	4.7±0.3	1.3	1.7	5.0	2.0	2.0

Features :

- These miniature chip inductors wound on a special ferrite core.
- SMTSDR322520 / 453226 / 322515 are high Q value at high frequencies and low DC resistance.
- SMTSDR321618C / 322520C / 453226C / 565047C are low DC resistance, high current capacity, and high impedance characteristics. They are excellent for use as choke coil in DC power supply circuits.

Characteristics :

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temp. : -30°C to 105°C .

Product identification :

S M T S D R 4 5 3 2 2 6 C - 1 0 1 K
(1) (2) (3) (4) (5)

- (1) Type : **Surface Mounting Type**.
 (2) Style : **SDR** Type core, **L=4.5mm W=3.2 Ht=2.6**.
 (3) **C**: for Choke use, No **C**: for general use.
 (4) Inductance : **101** for **100uH**.
 (5) Inductance tolerance : **J** : $\pm 5\%$; **K** : $\pm 10\%$; **M** : $\pm 20\%$.

Test equipments :

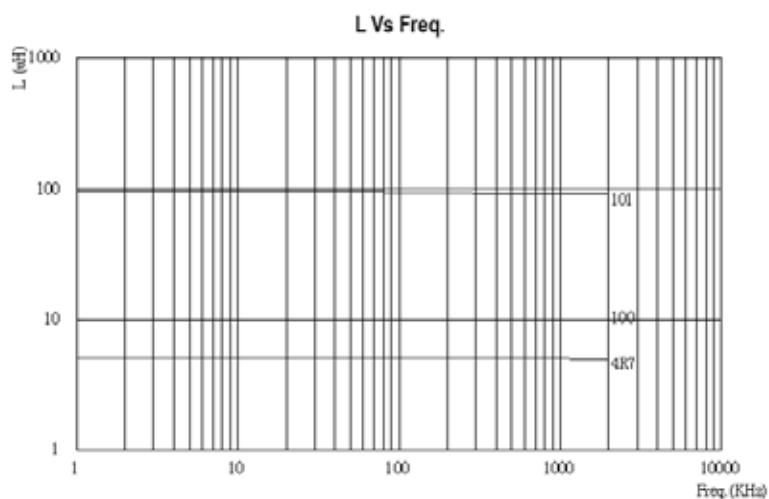
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .



● **SMTSDR 322515 series**

Part No.	Inductance L (μ H)	TEST Freq. (0.1V)	DCR (Ω) Max.	Rated Current (mA) Max.	SRF (MHz) Min.
SMTSDR322515-1R0M	1.0	1MHz	0.078	1000	100
SMTSDR322515-2R2M	2.2	1MHz	0.126	790	64
SMTSDR322515-4R7M	4.7	1MHz	0.195	650	43
SMTSDR322515-100K	10	1MHz	0.42	450	26
SMTSDR322515-150K	15	1MHz	0.75	300	22
SMTSDR322515-220K	22	1MHz	1.20	250	19
SMTSDR322515-330K	33	1MHz	1.40	200	17
SMTSDR322515-470K	47	1MHz	2.75	170	13
SMTSDR322515-680K	68	1MHz	3.60	130	9
SMTSDR322515-101K	100	1MHz	4.50	100	8

Typical performance curves :

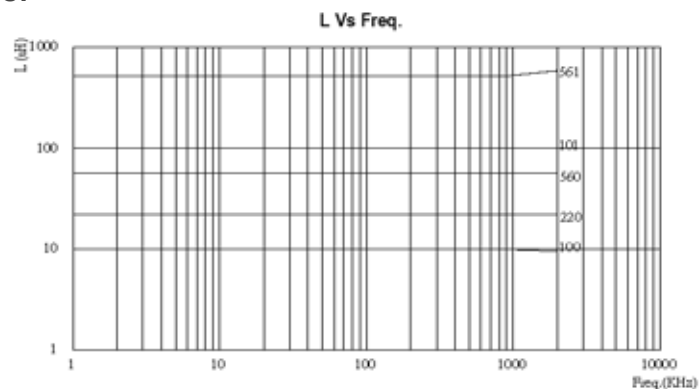




● **SMTSDR 322520 series**

Part No.	Inductance (μH)			Quality Factor		DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
	Nominal Value	Tolerance (±%)	Test Freq.	Spec. Min.	Test Freq.			
SMTSDR322520 -1R0□	1.0	M	1MHz	20	1MHz	0.50	100	445
SMTSDR322520 -1R2□	1.2	M	1MHz	20	1MHz	0.60	100	425
SMTSDR322520 -1R5□	1.5	M,K	1MHz	20	1MHz	0.60	75	400
SMTSDR322520 -1R8□	1.8	M,K	1MHz	20	1MHz	0.70	60	390
SMTSDR322520 -2R2□	2.2	M,K	1MHz	20	1MHz	0.80	50	370
SMTSDR322520 -2R7□	2.7	M,K	1MHz	20	1MHz	0.90	43	320
SMTSDR322520 -3R3□	3.3	M,K	1MHz	20	1MHz	1.0	38	300
SMTSDR322520 -3R9□	3.9	M,K	1MHz	20	1MHz	1.1	35	290
SMTSDR322520 -4R7□	4.7	M,K	1MHz	20	1MHz	1.2	31	270
SMTSDR322520 -5R6□	5.6	M,K	1MHz	20	1MHz	1.3	28	250
SMTSDR322520 -6R8□	6.8	M,K	1MHz	20	1MHz	1.5	25	240
SMTSDR322520 -8R2□	8.2	M,K	1MHz	20	1MHz	1.6	23	225
SMTSDR322520 -100□	10	K,J	1MHz	35	1MHz	1.8	20	190
SMTSDR322520 -120□	12	K,J	1MHz	35	1MHz	2.0	18	180
SMTSDR322520 -150□	15	K,J	1MHz	35	1MHz	2.2	16	170
SMTSDR322520 -180□	18	K,J	1MHz	35	1MHz	2.5	15	165
SMTSDR322520 -220□	22	K,J	1MHz	35	1MHz	2.8	14	150
SMTSDR322520 -270□	27	K,J	1MHz	35	1MHz	3.1	13	125
SMTSDR322520 -330□	33	K,J	1MHz	40	1MHz	3.5	12	115
SMTSDR322520 -390□	39	K,J	1MHz	40	1MHz	3.9	11	110
SMTSDR322520 -470□	47	K,J	1MHz	40	1MHz	4.3	11	100
SMTSDR322520 -560□	56	K,J	1MHz	40	1MHz	4.9	10.0	85
SMTSDR322520 -680□	68	K,J	1MHz	40	1MHz	5.5	9.0	80
SMTSDR322520 -820□	82	K,J	1MHz	40	1MHz	6.2	8.5	70
SMTSDR322520 -101□	100	K,J	1MHz	40	796kHz	7.0	8.0	80
SMTSDR322520 -121□	120	K,J	1MHz	40	796kHz	8.0	7.5	75
SMTSDR322520 -151□	150	K,J	1MHz	40	796kHz	9.3	7.0	70
SMTSDR322520 -181□	180	K,J	1MHz	40	796kHz	10.2	6.0	65
SMTSDR322520 -221□	220	K,J	1MHz	40	796kHz	11.8	5.5	65
SMTSDR322520 -271□	270	K,J	1MHz	40	796kHz	12.5	5.0	65
SMTSDR322520 -331□	330	K,J	1MHz	40	796kHz	13.0	5.0	65
SMTSDR322520 -391□	390	K,J	1MHz	50	796kHz	22.0	5.0	50
SMTSDR322520 -471□	470	K,J	1kHz	50	796kHz	25.0	5.0	45
SMTSDR322520 -561□	560	K,J	1kHz	50	796kHz	28.0	5.0 (REF.)	40

Typical performance curves:



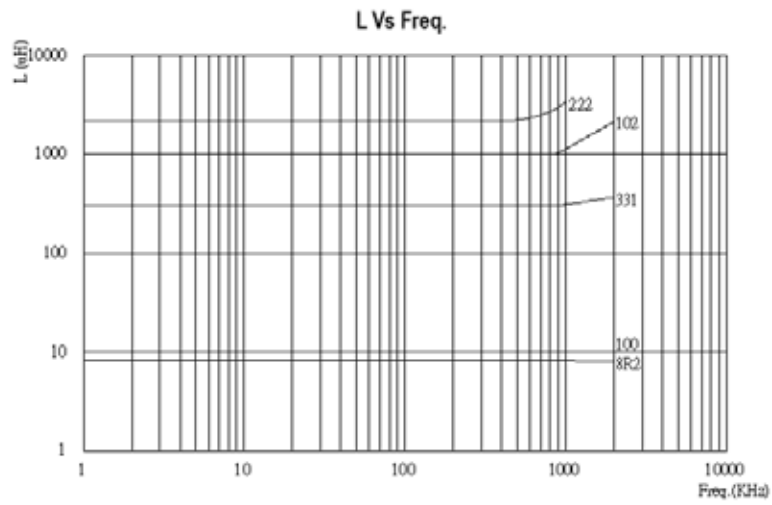


SMTSDR 453226 series

Part No.	Inductance(uH)			Quality Factor		DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
	Nominal Value	Tolerance (±%)	Test Freq.	Spec. Min.	Test Freq.			
SMTSDR453226 -1R0□	1.0	M	1MHz	20	1MHz	0.20	120	500
SMTSDR453226 -1R2□	1.2	M	1MHz	20	1MHz	0.20	100	500
SMTSDR453226 -1R5□	1.5	M	1MHz	20	1MHz	0.30	85	500
SMTSDR453226 -1R8□	1.8	M	1MHz	20	1MHz	0.30	75	500
SMTSDR453226 -2R2□	2.2	M	1MHz	20	1MHz	0.30	62	500
SMTSDR453226 -2R7□	2.7	M	1MHz	20	1MHz	0.32	53	500
SMTSDR453226 -3R3□	3.3	M	1MHz	20	1MHz	0.35	47	500
SMTSDR453226 -3R9□	3.9	M	1MHz	20	1MHz	0.38	41	500
SMTSDR453226 -4R7□	4.7	M,K	1MHz	30	1MHz	0.40	38	500
SMTSDR453226 -5R6□	5.6	M,K	1MHz	30	1MHz	0.47	33	500
SMTSDR453226 -6R8□	6.8	M,K	1MHz	30	1MHz	0.50	31	450
SMTSDR453226 -8R2□	8.2	M,K	1MHz	30	1MHz	0.56	27	450
SMTSDR453226 -100□	10	K,J	1MHz	35	1MHz	0.56	23	400
SMTSDR453226 -120□	12	K,J	1MHz	35	1MHz	0.62	21	380
SMTSDR453226 -150□	15	K,J	1MHz	35	1MHz	0.73	19	360
SMTSDR453226 -180□	18	K,J	1MHz	35	1MHz	0.82	17	340
SMTSDR453226 -220□	22	K,J	1MHz	35	1MHz	0.94	15	320
SMTSDR453226 -270□	27	K,J	1MHz	35	1MHz	1.1	14	300
SMTSDR453226 -330□	33	K,J	1MHz	35	1MHz	1.2	12	270
SMTSDR453226 -390□	39	K,J	1MHz	35	1MHz	1.4	11	240
SMTSDR453226 -470□	47	K,J	1MHz	35	1MHz	1.5	10	220
SMTSDR453226 -560□	56	K,J	1MHz	35	1MHz	1.7	9.3	200
SMTSDR453226 -680□	68	K,J	1MHz	35	1MHz	1.9	8.4	180
SMTSDR453226 -820□	82	K,J	1MHz	35	1MHz	2.2	7.5	170
SMTSDR453226 -101□	100	K,J	1MHz	40	796kHz	2.5	6.8	160
SMTSDR453226 -121□	120	K,J	1MHz	40	796kHz	3.0	6.2	150
SMTSDR453226 -151□	150	K,J	1MHz	40	796kHz	3.7	5.5	130
SMTSDR453226 -181□	180	K,J	1MHz	40	796kHz	4.5	5.0	120
SMTSDR453226 -221□	220	K,J	1MHz	40	796kHz	5.4	4.5	110
SMTSDR453226 -271□	270	K,J	1MHz	40	796kHz	6.8	4.0	100
SMTSDR453226 -331□	330	K,J	1MHz	40	796kHz	8.2	3.6	95
SMTSDR453226 -391□	390	K,J	1MHz	40	796kHz	9.7	3.3	90
SMTSDR453226 -471□	470	K,J	1kHz	40	796kHz	11.8	3.0	80
SMTSDR453226 -561□	560	K,J	1kHz	40	796kHz	14.5	2.7	70
SMTSDR453226 -681□	680	K,J	1kHz	40	796kHz	17.0	2.5	65
SMTSDR453226 -821□	820	K,J	1kHz	40	796kHz	20.5	2.2	60
SMTSDR453226 -102□	1000	K,J	1kHz	40	252kHz	25.0	2.0	55
SMTSDR453226 -122□	1200	K,J	1kHz	40	252kHz	30.0	1.8	50
SMTSDR453226 -152□	1500	K,J	1kHz	40	252kHz	37.0	1.6	45
SMTSDR453226 -182□	1800	K,J	1kHz	40	252kHz	45.0	1.5	35
SMTSDR453226 -222□	2200	K,J	1kHz	40	252kHz	50.0	1.3	30



Typical performance curves :





● **SMTSDR321618C/322520C/ 453226C series**

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
SMTSDR321618C -R22□	0.22	M	1MHz	0.140	250	850
SMTSDR321618C -R47□	0.47	M	1MHz	0.210	180	700
SMTSDR321618C -1R0□	1.0	M	1MHz	0.364	100	510
SMTSDR321618C -2R2□	2.2	M	1MHz	0.533	50	430
SMTSDR321618C -4R7□	4.7	M,K	1MHz	0.845	31	340
SMTSDR321618C -100□	10	K,J	1MHz	1.690	20	230
SMTSDR321618C -220□	22	K,J	1MHz	3.900	14	160
SMTSDR321618C -470□	47	K,J	1MHz	10.40	10	100
SMTSDR321618C -101□	100	K,J	1MHz	15.60	7	80
SMTSDR322520C -1R0□	1.0	M	1MHz	0.078	100	1000
SMTSDR322520C -2R2□	2.2	M	1MHz	0.126	64	790
SMTSDR322520C -4R7□	4.7	M	1MHz	0.195	43	450
SMTSDR322520C -100□	10	M	1MHz	0.572	26	300
SMTSDR322520C -220□	22	M,K	1MHz	0.923	19	250
SMTSDR322520C -470□	47	M,K	1MHz	1.69	12	170
SMTSDR322520C -101□	100	K,J	1MHz	4.55	8	100
SMTSDR322520C -221□	220	K,J	1MHz	10.92	5.5	70
SMTSDR322520C -331□	330	K,J	1MHz	13.00	4.5	60
SMTSDR322520C -391□	390	K,J	1MHz	22.10	4	60
SMTSDR322520C -471□	470	K,J	1MHz	24.70	3.7	60
SMTSDR322520C -561□	560	K,J	1MHz	28.60	3.4	60
SMTSDR453226C -1R0□	1.0	M	1MHz	0.08	100	1080
SMTSDR453226C -1R5□	1.5	M	1MHz	0.09	85	1000
SMTSDR453226C -2R2□	2.2	M	1MHz	0.11	60	900
SMTSDR453226C -3R3□	3.3	M	1MHz	0.13	47	800
SMTSDR453226C -4R7□	4.7	M,K	1MHz	0.15	35	750
SMTSDR453226C -6R8□	6.8	M,K	1MHz	0.20	30	720
SMTSDR453226C -100□	10	K,J	1MHz	0.24	23	650
SMTSDR453226C -150□	15	K,J	1MHz	0.32	20	570
SMTSDR453226C -220□	22	K,J	1MHz	0.60	15	420
SMTSDR453226C -330□	33	K,J	1MHz	1.0	12	310
SMTSDR453226C -470□	47	K,J	1MHz	1.1	10	280
SMTSDR453226C -680□	68	K,J	1MHz	1.7	8.4	220
SMTSDR453226C -101□	100	K,J	1MHz	2.2	6.8	190
SMTSDR453226C -151□	150	K,J	1MHz	3.5	5.5	130
SMTSDR453226C -221□	220	K,J	1MHz	4.0	4.5	110
SMTSDR453226C -331□	330	K,J	1MHz	6.8	3.6	100
SMTSDR453226C -471□	470	K,J	1MHz	8.5	3.0	90



● **SMTSDR575047C series**

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
SMTSDR575047C -R12□	0.12	M	1MHz	0.0098	450	6000
SMTSDR575047C -R27□	0.27	M	1MHz	0.0140	300	5300
SMTSDR575047C -R47□	0.47	M	1MHz	0.0182	200	4800
SMTSDR575047C -1R0□	1.0	M	1MHz	0.0270	150	4000
SMTSDR575047C -1R5□	1.5	M	1MHz	0.0310	110	3700
SMTSDR575047C -2R2□	2.2	M	1MHz	0.0410	80	3200
SMTSDR575047C -3R3□	3.3	M	1MHz	0.0500	40	2900
SMTSDR575047C -4R7□	4.7	M	1MHz	0.0574	30	2700
SMTSDR575047C -6R8□	6.8	M	1MHz	0.1040	25	2000
SMTSDR575047C -100□	10	M,K	1MHz	0.1300	20	1700
SMTSDR575047C -150□	15	M,K	1MHz	0.210	17	1400
SMTSDR575047C -220□	22	M,K	1MHz	0.266	15	1200
SMTSDR575047C -330□	33	M,K	1MHz	0.448	12	900
SMTSDR575047C -470□	47	M,K	1MHz	0.560	10(REF.)	800
SMTSDR575047C -680□	68	M,K	1MHz	0.938	7.6	640
SMTSDR575047C -101□	100	M,K	100kHz	1.204	6.5(REF.)	560
SMTSDR575047C -151□	150	M,K	100kHz	2.660	5.0(REF.)	420
SMTSDR575047C -221□	220	M,K	100kHz	3.360	4.0	320
SMTSDR575047C -331□	330	M,K	100kHz	6.160	3.1	270
SMTSDR575047C -471□	470	M,K	100kHz	7.560	2.4	240
SMTSDR575047C -681□	680	M,K	100kHz	11.34	1.9	190
SMTSDR575047C -102□	1000	M,K	10kHz	14.42	1.7	150
SMTSDR575047C -222□	2200	M,K	10kHz	30.10	1.2	100
SMTSDR575047C -472□	4700	M,K	10kHz	61.04	0.8	70
SMTSDR575047C -103□	10000	M,K	10kHz	140.0	0.5	50

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



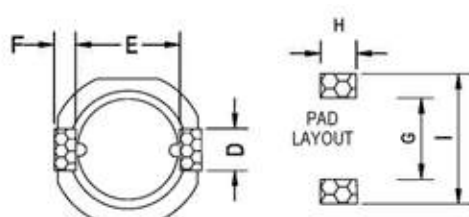
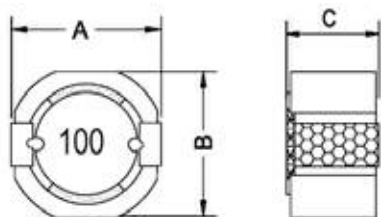
SMTDRH0520~0635 SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters, etc.

Shape and Dimensions: (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
SMTDRH0520	5.2	5.2	2.0
SMTDRH0530	5.2	5.2	3.0
SMTDRH0530L	5.2	5.2	3.0
SMTDRH0630	6.3	6.2	3.0
SMTDRH0635	6.3	6.2	3.5

Item	D	E	F	G	H	I
SMTDRH0520	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0530	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0530L	1.4	4.2	0.6	4.0	2.0	6.0
SMTDRH0630	2.0	4.8	0.6	4.6	2.6	6.6
SMTDRH0635	2.0	4.8	0.6	4.6	2.6	6.6

Features :

- Low profile, SMTDRH0520 2.0mm max. height.
SMTDRH0530 3.0mm max. height.
SMTDRH0630 3.0mm max height
SMTDRH0635 3.5mm max height
- Magnetically shielded and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.

Characteristics :

- Saturation Rated Current (Isat): The current when the inductance becomes 30% lower than its initial value (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -20°C to 85°C.

Product identification :

SMT **DRH0530** **L** - **470** **M**
(1) (2) (3) (4) (5)

- (1) Type: **Surface Mountable Type**.
- (2) Style: **DR** Core with **RI** Shield, **0530** is size.
- (3) No **L**: general type ; **L**: low DCR type.
- (4) Inductance: **470** for **47.0** uH.
- (5) Inductance tolerance: **M**: $\pm 20\%$.

Test equipments :

- L tested by Agilent 4284A LCR meter @ 100KHz 0.1V.
- DCR tested by Milli-ohm meter.
- Used frequency rang : 0.1~1MHz.
- Electrical specifications at 25°C.



● **SMTDRH05 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0520-1R2M	1R2	1.2	100 KHz	45	2.15	2.29
SMTDRH0520-2R2M	2R2	2.2	100 KHz	59	1.63	1.64
SMTDRH0520-3R5M	3R5	3.5	100 KHz	73	1.34	1.45
SMTDRH0520-4R7M	4R7	4.7	100 KHz	86	1.14	1.22
SMTDRH0520-6R8M	6R8	6.8	100 KHz	101	0.95	1.10
SMTDRH0520-100M	100	10.0	100 KHz	150	0.76	0.87
SMTDRH0520-150M	150	15.0	100 KHz	210	0.63	0.72
SMTDRH0520-220M	220	22.0	100 KHz	276	0.56	0.56
SMTDRH0520-330M	330	33.0	100 KHz	450	0.44	0.48
SMTDRH0520-470M	470	47.0	100 KHz	726	0.36	0.35
SMTDRH0520-680M	680	68.0	100 KHz	936	0.30	0.33
SMTDRH0520-101M	101	100	100 KHz	1500	0.23	0.24

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0530-1R1M	1R1	1.1	100 KHz	20	3.87	3.25
SMTDRH0530-2R0M	2R0	2.0	100 KHz	27	2.92	2.64
SMTDRH0530-3R3M	3R3	3.3	100 KHz	45	2.36	2.26
SMTDRH0530-4R7M	4R7	4.7	100 KHz	46	1.87	2.01
SMTDRH0530-6R8M	6R8	6.8	100 KHz	69	1.51	1.65
SMTDRH0530-100M	100	10.0	100 KHz	90	1.33	1.41
SMTDRH0530-150M	150	15.0	100 KHz	142	1.05	1.10
SMTDRH0530-220M	220	22.0	100 KHz	208	0.86	0.81
SMTDRH0530-330M	330	33.0	100 KHz	330	0.72	0.75
SMTDRH0530-470M	470	47.0	100 KHz	352	0.62	0.64
SMTDRH0530-680M	680	68.0	100 KHz	525	0.51	0.52
SMTDRH0530-101M	101	100.0	100 KHz	801	0.43	0.44

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0530L-4R7M	4R7	4.7	100 KHz	38	1.13	2.18
SMTDRH0530L-6R8M	6R8	6.8	100 KHz	51	0.99	1.81
SMTDRH0530L-100M	100	10.0	100 KHz	68	0.74	1.50
SMTDRH0530L-150M	150	15.0	100 KHz	98	0.58	1.28
SMTDRH0530L-220M	220	22.0	100 KHz	135	0.51	1.12
SMTDRH0530L-330M	330	33.0	100 KHz	207	0.41	0.88
SMTDRH0530L-470M	470	47.0	100 KHz	269	0.34	0.75
SMTDRH0530L-680M	680	68.0	100 KHz	401	0.29	0.64
SMTDRH0530L-101M	101	100	100 KHz	569	0.26	0.51
SMTDRH0530L-151M	151	150	100 KHz	942	0.21	0.38
SMTDRH0530L-221M	221	220	100 KHz	1343	0.18	0.33



SMTDRH06 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0630-1R0M	1R0	1.0	100 KHz	13.2	3.59	4.03
SMTDRH0630-1R5M	1R5	1.5	100 KHz	15.6	2.93	3.63
SMTDRH0630-2R2M	2R2	2.2	100 KHz	19.2	2.42	3.30
SMTDRH0630-3R6M	3R6	3.6	100 KHz	25.2	1.89	2.83
SMTDRH0630-4R7M	4R7	4.7	100 KHz	32.4	1.66	2.45
SMTDRH0630-6R2M	6R2	6.2	100 KHz	38.4	1.45	2.20
SMTDRH0630-100M	100	10.0	100 KHz	58.8	1.14	1.77
SMTDRH0630-120M	120	12.0	100 KHz	73.0	1.04	1.70
SMTDRH0630-150M	150	15.0	100 KHz	74.4	0.93	1.55
SMTDRH0630-180M	180	18.0	100 KHz	110.0	0.85	1.41
SMTDRH0630-220M	220	22.0	100 KHz	114.0	0.77	1.23
SMTDRH0630-270M	270	27.0	100 KHz	144.0	0.70	1.08
SMTDRH0630-330M	330	33.0	100 KHz	168.0	0.63	0.99
SMTDRH0630-390M	390	39.0	100 KHz	180.0	0.58	0.95
SMTDRH0630-470M	470	47.0	100 KHz	222.0	0.53	0.84
SMTDRH0630-560M	560	56.0	100 KHz	264.0	0.48	0.76
SMTDRH0630-680M	680	68.0	100 KHz	324.0	0.44	0.69
SMTDRH0630-820M	820	82.0	100 KHz	396.0	0.40	0.61
SMTDRH0630-101M	101	100	100 KHz	498.0	0.36	0.54
SMTDRH0630-151M	151	150	100 KHz	738.0	0.31	0.42

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRH0635-2R0M	2R0	2.0	100 KHz	19.2	3.00	3.31
SMTDRH0635-2R7M	2R7	2.7	100 KHz	21.9	2.69	3.12
SMTDRH0635-3R3M	3R3	3.3	100 KHz	25.6	2.57	2.81
SMTDRH0635-4R7M	4R7	4.7	100 KHz	31.6	2.08	2.51
SMTDRH0635-6R2M	6R2	6.2	100 KHz	34.9	1.84	2.41
SMTDRH0635-8R2M	8R2	8.2	100 KHz	43.4	1.54	2.11
SMTDRH0635-100M	100	10.0	100 KHz	50.8	1.49	1.97
SMTDRH0635-120M	120	12.0	100 KHz	62.0	1.28	1.73
SMTDRH0635-150M	150	15.0	100 KHz	76.9	1.10	1.54
SMTDRH0635-180M	180	18.0	100 KHz	95.0	1.05	1.52
SMTDRH0635-220M	220	22.0	100 KHz	127.2	0.97	1.29
SMTDRH0635-270M	270	27.0	100 KHz	140.1	0.82	1.11
SMTDRH0635-330M	330	33.0	100 KHz	162.0	0.76	1.02
SMTDRH0635-390M	390	39.0	100 KHz	190.8	0.70	0.96
SMTDRH0635-470M	470	47.0	100 KHz	208.8	0.68	0.89
SMTDRH0635-560M	560	56.0	100 KHz	256.8	0.60	0.80
SMTDRH0635-680M	680	68.0	100 KHz	319.2	0.56	0.71
SMTDRH0635-820M	820	82.0	100 KHz	418.8	0.47	0.61
SMTDRH0635-101M	101	100	100 KHz	476.4	0.45	0.57
SMTDRH0635-151M	151	150	100 KHz	639.6	0.37	0.48

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRH SERIES

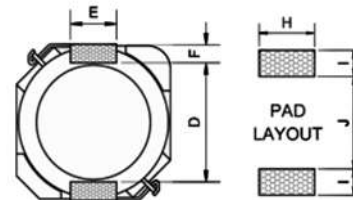
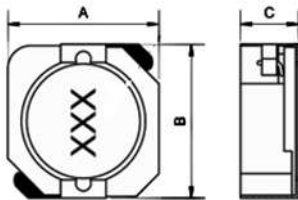
UNSHIELDED SMT POWER INDUCTORS

Applications :

- Power supply for VTRs.
- LCD televisions.
- Notebook PCs.
- Portable communication equipment.
- DC/DC converters, etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
SMTDRH103R	10.3	10.4	3.0
SMTDRH104R	10.3	10.4	4.0
SMTDRH105R	10.3	10.4	5.0

Item	D	E	F	H	I	J
SMTDRH103R	7.7	3.0	1.2	3.6	1.7	7.3
SMTDRH104R	7.7	3.0	1.2	3.6	1.7	7.3
SMTDRH105R	7.7	3.0	1.2	3.6	1.7	7.3

Features :

- Directly connected electrode on ferrite core.
- Ideal inductors for DC-DC conversion.
- High power, High saturation inductors.
- With magnetic shield against radiation.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 30% lower than its initial value.(Ta=20°C)
- Temperature Rise Current(Irms):The current when temperature of coil increases up to max $\Delta T=40^{\circ}\text{C}$.(Ta=20°C)
- Operating temperature : -40°C to 125°C.

Measuring Frequency :

- SMTDRH5D28R /103R/104R/105R
0.8~1000uH @100KHZ 0.1V

Product Identification :

SMT DRH104R - 470 N

(1) (2) (3) (4)

- (1) Type : **Surface Mountable Type.**
- (2) Style : **DR** Core with **RI** shield , **104R** is size.
- (3)Inductance : Example : **470** for **47** uH.
- (4)Inductance tolerance : **N** : $\pm 30\%$.

Test equipments :

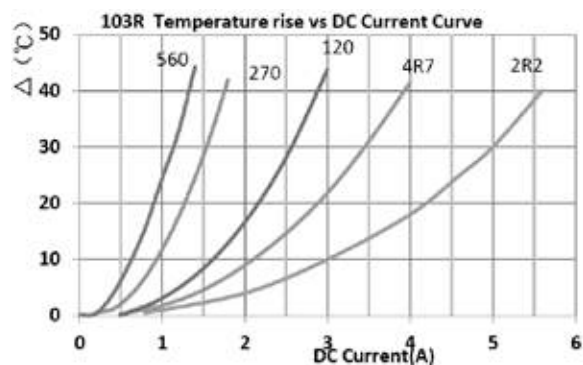
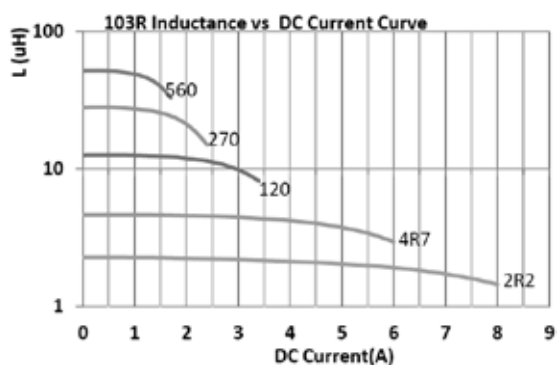
- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.



● SMTDRH103R series

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRH103R-R80N	0.8	5.7m	5.3m	9.60	12.0	6.00	7.00
SMTDRH103R-1R5N	1.5	11m	8.2m	7.55	9.40	4.90	6.00
SMTDRH103R-2R2N	2.2	17m	11m	5.95	7.40	5.00	5.60
SMTDRH103R-3R3N	3.3	21m	15m	5.25	6.55	4.20	5.40
SMTDRH103R-4R7N	4.7	30m	23m	4.50	5.60	3.30	3.90
SMTDRH103R-6R8N	6.8	35m	31m	3.85	4.80	3.00	3.60
SMTDRH103R-8R2N	8.2	50m	39m	3.30	4.10	2.60	3.40
SMTDRH103R-100N	10	58m	44m	2.90	3.60	2.50	3.20
SMTDRH103R-120N	12	72m	59m	2.80	3.50	2.40	2.90
SMTDRH103R-150N	15	87m	65m	2.75	3.40	2.26	2.75
SMTDRH103R-180N	18	116m	82m	2.42	3.02	2.00	2.20
SMTDRH103R-220N	22	143m	89m	2.25	2.79	1.60	2.00
SMTDRH103R-270N	27	0.17	0.13	1.65	2.07	1.40	1.78
SMTDRH103R-330N	33	0.20	0.15	1.62	2.02	1.35	1.70
SMTDRH103R-390N	39	0.27	0.21	1.45	1.82	1.10	1.39
SMTDRH103R-470N	47	0.30	0.22	1.44	1.80	1.09	1.33
SMTDRH103R-560N	56	0.33	0.25	1.30	1.60	1.00	1.32
SMTDRH103R-680N	68	0.43	0.34	1.15	1.44	0.90	1.11
SMTDRH103R-820N	82	0.49	0.37	1.11	1.39	0.85	1.05
SMTDRH103R-101N	100	0.68	0.53	0.98	1.22	0.73	0.91
SMTDRH103R-121N	120	0.75	0.59	0.90	1.10	0.72	0.88
SMTDRH103R-151N	150	0.87	0.73	0.78	0.98	0.68	0.82
SMTDRH103R-221N	220	1.20	0.83	0.56	0.70	0.64	0.78
SMTDRH103R-331N	330	1.60	1.24	0.48	0.60	0.60	0.70

Typical Performance curves:

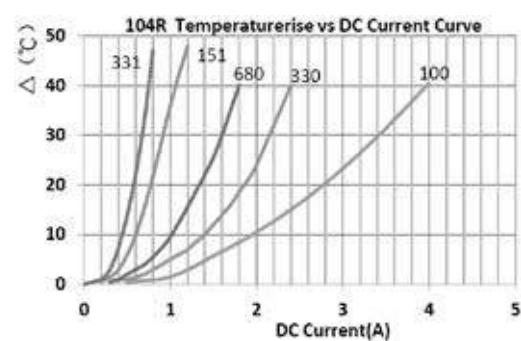
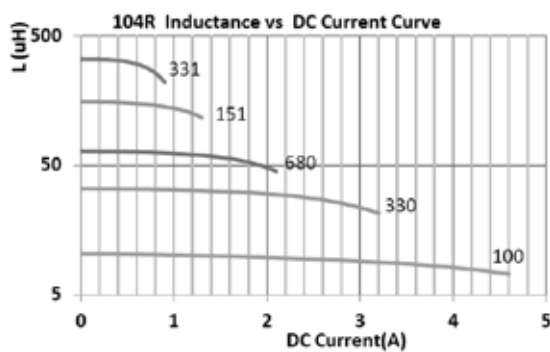




● SMTDRH104R series

Part NO.	L(μ H)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRH104R-1R5N	1.5	8.1m	5.6m	11.30	14.10	6.70	8.40
SMTDRH104R-2R5N	2.5	10m	7.8m	8.35	10.40	6.00	7.50
SMTDRH104R-3R8N	3.8	13m	11m	6.25	7.80	5.40	6.60
SMTDRH104R-5R2N	5.2	22m	16m	5.45	6.80	4.50	5.50
SMTDRH104R-7R0N	7.0	27m	21m	4.80	6.00	3.80	4.80
SMTDRH104R-100N	10.0	35m	27m	3.70	4.60	3.20	4.00
SMTDRH104R-120N	12.0	42m	32m	3.50	4.30	3.10	3.80
SMTDRH104R-150N	15.0	50m	42m	3.40	4.00	2.50	3.10
SMTDRH104R-180N	18.0	62m	46m	3.10	3.85	2.40	3.00
SMTDRH104R-220N	22.0	73m	60m	2.80	3.50	2.30	2.80
SMTDRH104R-270N	27.0	86m	68m	2.50	3.15	2.20	2.70
SMTDRH104R-330N	33.0	110m	87m	2.40	3.00	2.00	2.40
SMTDRH104R-390N	39.0	115m	104m	2.10	2.55	1.90	2.30
SMTDRH104R-470N	47.0	128m	110m	1.90	2.38	1.80	2.20
SMTDRH104R-560N	56.0	180m	130m	1.80	2.25	1.65	2.00
SMTDRH104R-680N	68.0	213m	160m	1.70	2.10	1.50	1.80
SMTDRH104R-820N	82.0	245m	200m	1.40	1.71	1.40	1.70
SMTDRH104R-101N	100.0	304m	230m	1.30	1.58	1.30	1.60
SMTDRH104R-121N	120.0	380m	260m	1.20	1.50	1.15	1.40
SMTDRH104R-151N	150.0	506m	420m	1.11	1.39	0.85	1.05
SMTDRH104R-181N	180.0	640m	540m	0.95	1.18	0.82	1.00
SMTDRH104R-221N	220.0	756m	580m	0.92	1.15	0.78	0.92
SMTDRH104R-271N	270.0	853m	730m	0.74	0.93	0.72	0.85
SMTDRH104R-331N	331.0	1.09	0.96	0.70	0.88	0.65	0.75
SMTDRH104R-391N	390.0	1.15	1.03	0.69	0.86	0.56	0.68

Typical Performance curves:

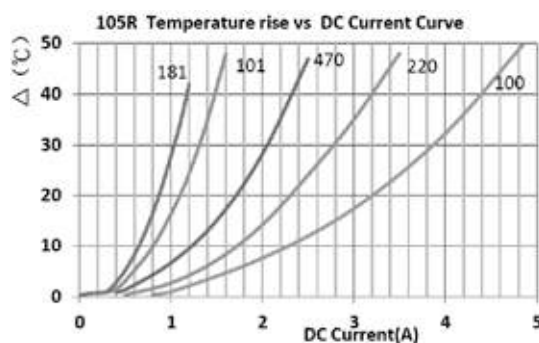
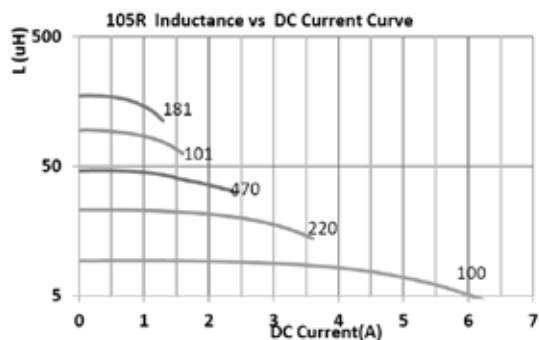




● SMTDRH105R series

Part NO.	L(uH)	DCR(Ω)		I sat (A)		I rms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRH105R-R80N	0.8	4.3m	3.7m	16.0	20.0	7.00	9.00
SMTDRH105R-1R5N	1.5	5.8m	4.8m	11.6	14.5	6.50	8.00
SMTDRH105R-2R2N	2.2	7.2m	6.8m	10.3	12.9	5.80	7.00
SMTDRH105R-3R3N	3.3	10m	7.8m	7.60	9.50	5.40	6.50
SMTDRH105R-4R7N	4.7	12m	11m	7.40	9.20	5.20	6.30
SMTDRH105R-6R8N	6.8	18m	15m	5.60	7.00	5.00	6.05
SMTDRH105R-8R2N	8.2	20m	17m	4.45	5.56	3.60	4.60
SMTDRH105R-100N	10	26m	22m	4.10	5.10	3.50	4.40
SMTDRH105R-120N	12	32m	25m	3.95	4.90	3.20	4.00
SMTDRH105R-150N	15	40m	30m	3.36	4.20	2.90	3.60
SMTDRH105R-180N	18	46m	36m	2.96	3.70	2.80	3.40
SMTDRH105R-220N	22	59m	45m	2.65	3.30	2.60	3.20
SMTDRH105R-270N	27	65m	49m	2.56	3.20	2.50	3.10
SMTDRH105R-330N	33	81m	63m	2.20	2.70	2.10	2.60
SMTDRH105R-390N	39	103m	85m	1.98	2.48	2.00	2.50
SMTDRH105R-470N	47	122m	105m	1.90	2.35	1.90	2.30
SMTDRH105R-560N	56	145m	115m	1.85	2.30	1.78	2.10
SMTDRH105R-680N	68	0.19	0.14	1.61	2.02	1.58	1.90
SMTDRH105R-820N	82	0.22	0.16	1.45	1.80	1.30	1.62
SMTDRH105R-101N	100	0.25	0.21	1.21	1.52	1.20	1.50
SMTDRH105R-121N	120	0.30	0.24	1.12	1.40	1.15	1.45
SMTDRH105R-151N	150	0.35	0.27	1.05	1.32	1.10	1.38
SMTDRH105R-181N	180	0.39	0.35	0.97	1.21	0.98	1.20
SMTDRH105R-221N	220	0.48	0.41	0.86	1.08	0.89	1.10
SMTDRH105R-271N	270	0.63	0.53	0.70	0.88	0.80	0.98
SMTDRH105R-331N	330	0.78	0.62	0.68	0.85	0.72	0.90
SMTDRH105R-391N	390	0.96	0.81	0.62	0.78	0.61	0.78
SMTDRH105R-471N	470	1.22	1.13	0.57	0.71	0.58	0.72
SMTDRH105R-561N	560	1.35	1.21	0.52	0.65	0.55	0.68
SMTDRH105R-681N	680	1.52	1.35	0.47	0.59	0.52	0.62
SMTDRH105R-821N	820	1.69	1.49	0.41	0.51	0.49	0.60
SMTDRH105R-102N	1000	1.946	1.92	0.39	0.49	0.43	0.52

Typical Performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



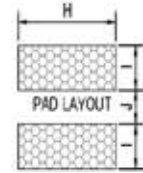
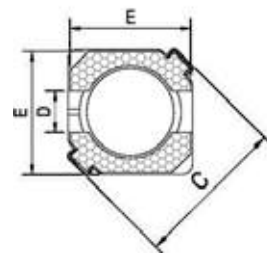
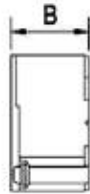
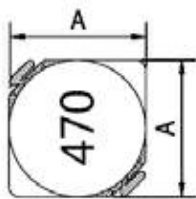
SMTDRRI4D&5D&6D SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters, etc.

Shape and Dimensions: (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
SMTDRRI4D18	4.7±0.3	2.0	6.9
SMTDRRI4D28	4.7±0.3	3.0	6.9
SMTDRRI5D18	5.7±0.3	2.0	8.2
SMTDRRI5D28	5.7±0.3	3.0	8.2
SMTDRRI6D28	6.7±0.3	3.0	9.5
SMTDRRI6D38	6.7±0.3	4.0	9.5

Item	D	E	H	I	J
SMTDRRI4D18	1.5	4.5	5.3	1.9	1.5
SMTDRRI4D28	1.5	4.5	5.3	1.9	1.5
SMTDRRI5D18	2.0	5.5	6.3	2.15	2.0
SMTDRRI5D28	2.0	5.5	6.3	2.15	2.0
SMTDRRI6D28	2.0	6.5	7.3	2.6	2.0
SMTDRRI6D38	2.0	6.5	7.3	2.5	2.0

Features :

- Small size with the electrode attached to the ferrite core directly.
- Available in magnetically shielded.
- Low DC resistance.
- Suitable for high current.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 35% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max ΔT=40°C. (Ta=20°C).
- Operating temperature : -30°C to 105°C.

Product identification :

SMT DRRI5D28 - 220 N

(1) (2) (3) (4)

(1) Type : **Surface Mountable Type.**

(2) Style : **DR Core with RI core.**

5D is 5.7mm square and **28** is about 2.8mm height.

(3) Inductance : **220** for **22** uH.

(4) Inductance tolerance : **N** : ± 30%.

Test equipments :

- L tested by Agilent 4284A Precision LCR meter.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C.



● **SMTDRRI4D18 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI4D18-1R0N	1R0	1.0	100 KHz	45	1.72	1.72
SMTDRRI4D18-2R2N	2R2	2.2	100 KHz	75	1.32	1.32
SMTDRRI4D18-2R7N	2R7	2.7	100 KHz	105	1.28	1.28
SMTDRRI4D18-3R3N	3R3	3.3	100 KHz	110	1.04	1.04
SMTDRRI4D18-3R9N	3R9	3.9	100 KHz	155	0.88	0.88
SMTDRRI4D18-4R7N	4R7	4.7	100 KHz	162	0.84	0.84
SMTDRRI4D18-5R6N	5R6	5.6	100 KHz	170	0.80	0.80
SMTDRRI4D18-6R8N	6R8	6.8	100 KHz	200	0.76	0.76
SMTDRRI4D18-8R2N	8R2	8.2	100 KHz	245	0.68	0.68
SMTDRRI4D18-100N	100	10	100 KHz	200	0.61	0.61
SMTDRRI4D18-120N	120	12	100 KHz	210	0.56	0.56
SMTDRRI4D18-150N	150	15	100 KHz	240	0.50	0.50
SMTDRRI4D18-180N	180	18	100 KHz	338	0.48	0.48
SMTDRRI4D18-220N	220	22	100 KHz	397	0.41	0.41
SMTDRRI4D18-270N	270	27	100 KHz	441	0.35	0.35
SMTDRRI4D18-330N	330	33	100 KHz	694	0.32	0.32
SMTDRRI4D18-390N	390	39	100 KHz	709	0.30	0.30

● **SMTDRRI4D28 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI4D28-1R2N	1R2	1.2	100 KHz	23.6	2.56	2.56
SMTDRRI4D28-1R8N	1R8	1.8	100 KHz	27.5	2.20	2.20
SMTDRRI4D28-2R2N	2R2	2.2	100 KHz	31.3	2.04	2.04
SMTDRRI4D28-2R7N	2R7	2.7	100 KHz	43.3	1.60	1.60
SMTDRRI4D28-3R3N	3R3	3.3	100 KHz	49.2	1.57	1.57
SMTDRRI4D28-3R9N	3R9	3.9	100 KHz	64.8	1.44	1.44
SMTDRRI4D28-4R7N	4R7	4.7	100 KHz	72.0	1.32	1.32
SMTDRRI4D28-5R6N	5R6	5.6	100 KHz	100.9	1.17	1.17
SMTDRRI4D28-6R8N	6R8	6.8	100 KHz	108.9	1.12	1.12
SMTDRRI4D28-8R2N	8R2	8.2	100 KHz	117.5	1.04	1.04
SMTDRRI4D28-100N	100	10	100 KHz	128.3	1.00	1.00
SMTDRRI4D28-120N	120	12	100 KHz	131.6	0.84	0.84
SMTDRRI4D28-150N	150	15	100 KHz	149.0	0.76	0.76
SMTDRRI4D28-180N	180	18	100 KHz	166.0	0.72	0.72
SMTDRRI4D28-220N	220	22	100 KHz	235.0	0.70	0.70
SMTDRRI4D28-270N	270	27	100 KHz	261.0	0.58	0.58
SMTDRRI4D28-330N	330	33	100 KHz	378.0	0.56	0.56
SMTDRRI4D28-390N	390	39	100 KHz	383.7	0.50	0.50
SMTDRRI4D28-470N	470	47	100 KHz	587.0	0.48	0.48
SMTDRRI4D28-560N	560	56	100 KHz	624.5	0.41	0.41
SMTDRRI4D28-680N	680	68	100 KHz	699.0	0.35	0.35
SMTDRRI4D28-820N	820	82	100 KHz	914.8	0.32	0.32
SMTDRRI4D28-101N	101	100	100 KHz	1020	0.29	0.29
SMTDRRI4D28-121N	121	120	100 KHz	1270	0.27	0.27
SMTDRRI4D28-151N	151	150	100 KHz	1350	0.24	0.24
SMTDRRI4D28-181N	181	180	100 KHz	1540	0.22	0.22



● **SMTDRRI5D18 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI5D18-4R1N	4R1	4.1	10 KHz	57	1.95	1.95
SMTDRRI5D18-5R4N	5R4	5.4	10KHz	76	1.60	1.60
SMTDRRI5D18-6R2N	6R2	6.2	10 KHz	96	1.40	1.40
SMTDRRI5D18-8R9N	8R9	8.9	10 KHz	116	1.25	1.25
SMTDRRI5D18-100N	100	10.0	10 KHz	124	1.20	1.20
SMTDRRI5D18-120N	120	12.0	10 KHz	153	1.10	1.10
SMTDRRI5D18-150N	150	15.0	10 KHz	196	0.97	0.97
SMTDRRI5D18-180N	180	18.0	10 KHz	210	0.85	0.85
SMTDRRI5D18-220N	220	22.0	10 KHz	290	0.80	0.80
SMTDRRI5D18-270N	270	27.0	10 KHz	330	0.75	0.75
SMTDRRI5D18-330N	330	33.0	10 KHz	386	0.65	0.65
SMTDRRI5D18-390N	390	39.0	10 KHz	520	0.57	0.57
SMTDRRI5D18-470N	470	47.0	10 KHz	595	0.54	0.54
SMTDRRI5D18-560N	560	56.0	10 KHz	665	0.50	0.50
SMTDRRI5D18-680N	680	68.0	10 KHz	840	0.43	0.43
SMTDRRI5D18-820N	820	82.0	10 KHz	978	0.41	0.41
SMTDRRI5D18-101N	101	100	10 KHz	1200	0.36	0.36

● **SMTDRRI5D28 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI5D28-2R6N	2R6	2.6	10 KHz	18	2.60	2.60
SMTDRRI5D28-3R0N	3R0	3.0	10 KHz	24	2.40	2.40
SMTDRRI5D28-4R2N	4R2	4.2	10 KHz	31	2.20	2.20
SMTDRRI5D28-5R3N	5R3	5.3	10 KHz	38	1.90	1.90
SMTDRRI5D28-6R2N	6R2	6.2	10 KHz	45	1.80	1.80
SMTDRRI5D28-8R2N	8R2	8.2	10 KHz	53	1.60	1.60
SMTDRRI5D28-100N	100	10.0	10 KHz	65	1.30	1.30
SMTDRRI5D28-120N	120	12.0	10 KHz	76	1.20	1.20
SMTDRRI5D28-150N	150	15.0	10 KHz	103	1.10	1.10
SMTDRRI5D28-180N	180	18.0	10 KHz	110	1.00	1.00
SMTDRRI5D28-220N	220	22.0	10 KHz	122	0.90	0.90
SMTDRRI5D28-270N	270	27.0	10 KHz	175	0.85	0.85
SMTDRRI5D28-330N	330	33.0	10 KHz	189	0.75	0.75
SMTDRRI5D28-390N	390	39.0	10 KHz	212	0.70	0.70
SMTDRRI5D28-470N	470	47.0	10 KHz	260	0.62	0.62
SMTDRRI5D28-560N	560	56.0	10 KHz	305	0.58	0.58
SMTDRRI5D28-680N	680	68.0	10 KHz	355	0.52	0.52
SMTDRRI5D28-101N	101	100.0	10 KHz	520	0.42	0.42



● SMTDRRI6D28 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI6D28-3R0N	3R0	3.0	10 KHz	24	3.00	3.00
SMTDRRI6D28-3R9N	3R9	3.9	10 KHz	27	2.60	2.60
SMTDRRI6D28-5R0N	5R0	5.0	10 KHz	31	2.40	2.40
SMTDRRI6D28-6R0N	6R0	6.0	10 KHz	35	2.25	2.25
SMTDRRI6D28-7R3N	7R3	7.3	10 KHz	54	2.10	2.10
SMTDRRI6D28-8R6N	8R6	8.6	10 KHz	58	1.85	1.85
SMTDRRI6D28-100N	100	10.0	10 KHz	65	1.70	1.70
SMTDRRI6D28-120N	120	12.0	10 KHz	70	1.55	1.55
SMTDRRI6D28-150N	150	15.0	10 KHz	84	1.40	1.40
SMTDRRI6D28-180N	180	18.0	10 KHz	95	1.32	1.32
SMTDRRI6D28-220N	220	22.0	10 KHz	128	1.20	1.20
SMTDRRI6D28-270N	270	27.0	10 KHz	142	1.05	1.05
SMTDRRI6D28-330N	330	33.0	10 KHz	165	0.97	0.97
SMTDRRI6D28-390N	390	39.0	10 KHz	210	0.86	0.86
SMTDRRI6D28-470N	470	47.0	10 KHz	238	0.80	0.80
SMTDRRI6D28-560N	560	56.0	10 KHz	277	0.73	0.73
SMTDRRI6D28-680N	680	68.0	10 KHz	304	0.65	0.65
SMTDRRI6D28-820N	820	82.0	10 KHz	390	0.60	0.60
SMTDRRI6D28-101N	101	100	10 KHz	535	0.54	0.54

● SMTDRRI6D38 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max.	I sat (A) Max.	I rms (A) Max.
SMTDRRI6D38-3R3N	3R3	3.3	10 KHz	20	3.50	3.50
SMTDRRI6D38-5R0N	5R0	5.0	10 KHz	24	2.90	2.90
SMTDRRI6D38-6R2N	6R2	6.2	10 KHz	27	2.40	2.40
SMTDRRI6D38-7R4N	7R4	7.4	10 KHz	31	2.30	2.30
SMTDRRI6D38-8R7N	8R7	8.7	10 KHz	34	2.20	2.20
SMTDRRI6D38-100N	100	10.0	10 KHz	38	2.00	2.00
SMTDRRI6D38-120N	120	12.0	10 KHz	53	1.70	1.70
SMTDRRI6D38-150N	150	15.0	10 KHz	57	1.60	1.60
SMTDRRI6D38-180N	180	18.0	10 KHz	92	1.50	1.50
SMTDRRI6D38-220N	220	22.0	10 KHz	96	1.30	1.30
SMTDRRI6D38-270N	270	27.0	10 KHz	109	1.20	1.20
SMTDRRI6D38-330N	330	33.0	10 KHz	124	1.10	1.10
SMTDRRI6D38-390N	390	39.0	10 KHz	138	1.00	1.00
SMTDRRI6D38-470N	470	47.0	10 KHz	155	0.95	0.95
SMTDRRI6D38-560N	560	56.0	10 KHz	202	0.85	0.85
SMTDRRI6D38-680N	680	68.0	10 KHz	234	0.75	0.75
SMTDRRI6D38-820N	820	82.0	10 KHz	324	0.70	0.70
SMTDRRI6D38-101N	101	100	10 KHz	358	0.65	0.65

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI SERIES

SHIELDED SMT POWER INDUCTORS

Applications :

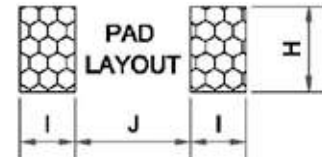
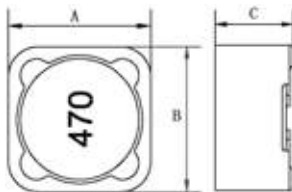
- Power supply for VTRs. LCD televisions.
- Notebook PCs, Portable communication equipment
- DC/DC converters, etc

Features :

- High power , high saturation inductors
- with magnetic shield against radiation
- Directly connected electrode on ferrite core.
- Highly accurate dimensions for automatic mounting



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C Max.
SMTDRRI62B	6.2±0.3	6.6±0.3	3.0
SMTDRRI64B	6.2±0.3	6.6±0.3	5.0
SMTDRRI 73	7.3±0.2	7.3±0.3	3.4
SMTDRRI 74	7.3±0.2	7.3±0.3	4.5
SMTDRRI124	12.0±0.3	12.0±0.3	4.5
SMTDRRI125	12.0±0.3	12.0±0.3	6.0
SMTDRRI127	12.0±0.3	12.0±0.3	8.0
SMTDRRI129	12.0±0.5	12.0±0.5	10.0

Item	H	I	J
SMTDRRI62B	1.9	1.4	4.6
SMTDRRI64B	1.9	1.4	4.6
SMTDRRI73	2.2	1.6	4.8
SMTDRRI74	2.2	1.6	4.8
SMTDRRI124	5.4	2.9	7.0
SMTDRRI125	5.4	2.9	7.0
SMTDRRI127	5.4	2.9	7.0
SMTDRRI129	5.4	2.9	7.0

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 25% lower than its initial value.(Ta=20°C).
- Temperature Rise Current(Irms):The current when temperature of coil increases up to max ΔT=40°C.(Ta=20°C)
- Operating temperature : -30°C to 105°C.

Product Identification :

SMT DRRI 125 - 470 M

(1) (2) (3) (4)

(1)Type : Surface Mountable Type .

(2)Style : DR Core with RI Shield. 125 is size

(3)Inductance : 470 for 47 uH.

(4)Inductance tolerance : M : ±20%.

Measuring Frequency :

- SMTDRRI62B
2.9~5.5uH@ 7.96MHz 0.25V ; 10~1000uH@1kHz 0.25V
- SMTDRRI64B/73/74
10~1000uH@1kHz 0.25V
- SMTDR124
3.9~330uH @ 100KHZ 0.25V

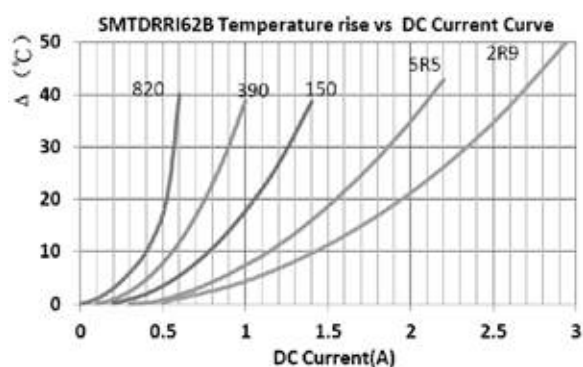
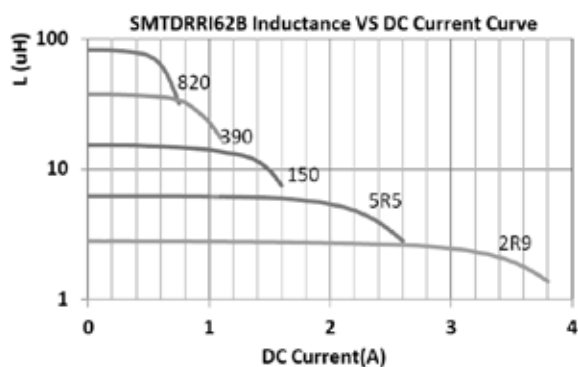
- SMTDR125
1.3~7.5uH@ 7.96MHz 0.25V ; 10~1000uH@1kHz 0.25V
- SMTDR127
1.2~7.6uH@ 100KHZ 0.25V ; 10~1000uH@1kHz 0.25V
- SMTDR129
1.0~7.5uH@ 100KHZ 1.0V ; 10~2200uH@ 1KHZ 0.25V



● SMTDRRI62B series

Part NO.	L(uH)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI62B-2R9N	2.9	40+/-20	68m	49m	2.75	3.40	2.20	2.70
SMTDRRI62B-4R0N	4.0	40+/-20	80m	55m	1.95	2.40	1.80	2.30
SMTDRRI62B-5R5N	5.5	40+/-20	96m	71m	1.80	2.25	1.70	2.15
SMTDRRI62B-100M	10	20	0.15	0.11	1.40	1.70	1.32	1.62
SMTDRRI62B-120M	12	20	0.20	0.12	1.25	1.55	1.22	1.58
SMTDRRI62B-150M	15	20	0.23	0.16	1.15	1.40	1.18	1.40
SMTDRRI62B-180M	18	20	0.27	0.19	1.05	1.30	1.05	1.32
SMTDRRI62B-220M	22	20	0.34	0.25	0.95	1.15	1.00	1.20
SMTDRRI62B-270M	27	20	0.38	0.28	0.85	1.05	0.98	1.18
SMTDRRI62B-330M	33	20	0.45	0.32	0.80	1.00	0.90	1.10
SMTDRRI62B-390M	39	20	0.49	0.35	0.65	0.90	0.84	1.00
SMTDRRI62B-470M	47	20	0.69	0.52	0.62	0.82	0.70	0.90
SMTDRRI62B-560M	56	20	0.78	0.65	0.57	0.71	0.65	0.79
SMTDRRI62B-680M	68	20	1.07	0.84	0.51	0.64	0.60	0.70
SMTDRRI62B-820M	82	20	1.21	0.99	0.48	0.61	0.55	0.60
SMTDRRI62B-101M	100	20	1.39	1.15	0.42	0.53	0.48	0.54
SMTDRRI62B-121M	120	20	1.90	1.40	0.38	0.50	0.41	0.50
SMTDRRI62B-151M	150	20	2.18	1.64	0.38	0.48	0.36	0.45
SMTDRRI62B-181M	180	20	2.77	2.18	0.32	0.40	0.35	0.42
SMTDRRI62B-221M	220	20	3.12	2.47	0.29	0.37	0.34	0.40
SMTDRRI62B-271M	270	20	4.38	3.60	0.26	0.32	0.27	0.34
SMTDRRI62B-331M	330	20	4.94	3.98	0.23	0.29	0.24	0.29
SMTDRRI62B-561M	560	20	6.80	5.69	0.17	0.21	0.21	0.27
SMTDRRI62B-102M	1000	20	12.0	10.0	0.14	0.18	0.18	0.24

Typical Performance curves:

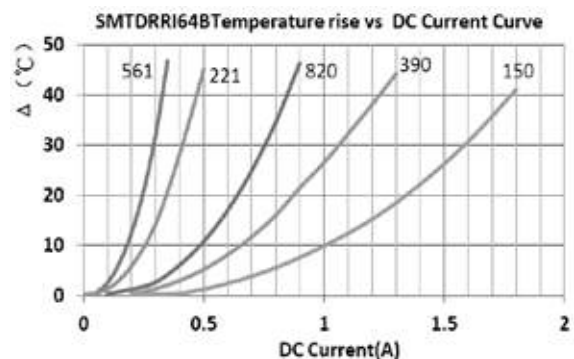
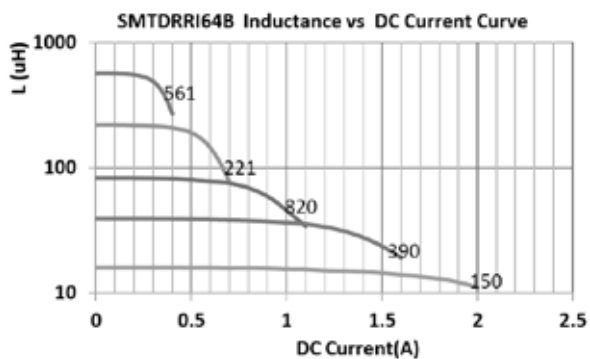




● **SMTDRRI64B series**

Part NO.	L(uH)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI64B-100M	10	20	120m	70m	2.10	2.60	1.96	2.38
SMTDRRI64B-120M	12	20	0.13	0.10	1.85	2.30	1.58	1.84
SMTDRRI64B-150M	15	20	0.18	0.11	1.55	1.90	1.48	1.79
SMTDRRI64B-180M	18	20	0.24	0.12	1.40	1.80	1.40	1.70
SMTDRRI64B-220M	22	20	0.27	0.16	1.35	1.68	1.35	1.60
SMTDRRI64B-270M	27	20	0.30	0.17	1.20	1.50	1.28	1.52
SMTDRRI64B-330M	33	20	0.33	0.21	1.15	1.40	1.14	1.40
SMTDRRI64B-390M	39	20	0.37	0.23	1.08	1.35	0.99	1.22
SMTDRRI64B-470M	47	20	0.52	0.32	0.90	1.10	0.95	1.15
SMTDRRI64B-560M	56	20	0.58	0.35	0.85	1.05	0.94	1.14
SMTDRRI64B-680M	68	20	0.63	0.48	0.80	1.00	0.79	0.95
SMTDRRI64B-820M	82	20	0.71	0.53	0.68	0.85	0.70	0.84
SMTDRRI64B-101M	100	20	1.03	0.58	0.64	0.80	0.69	0.82
SMTDRRI64B-121M	120	20	1.15	0.88	0.60	0.75	0.60	0.75
SMTDRRI64B-151M	150	20	1.68	0.97	0.56	0.70	0.58	0.68
SMTDRRI64B-181M	180	20	1.87	1.09	0.50	0.62	0.50	0.61
SMTDRRI64B-221M	220	20	2.08	1.78	0.42	0.53	0.37	0.46
SMTDRRI64B-271M	270	20	2.37	1.97	0.38	0.48	0.36	0.44
SMTDRRI64B-331M	330	20	2.67	2.22	0.35	0.44	0.34	0.41
SMTDRRI64B-391M	390	20	2.94	2.43	0.31	0.39	0.30	0.38
SMTDRRI64B-471M	470	20	3.93	3.14	0.29	0.37	0.28	0.35
SMTDRRI64B-561M	560	20	5.43	4.29	0.27	0.34	0.27	0.33
SMTDRRI64B-681M	680	20	7.32	4.77	0.25	0.31	0.24	0.30
SMTDRRI64B-821M	820	20	8.24	6.34	0.22	0.28	0.20	0.25
SMTDRRI64B-102M	1000	20	9.26	7.93	0.20	0.25	0.17	0.22

Typical Performance curves:

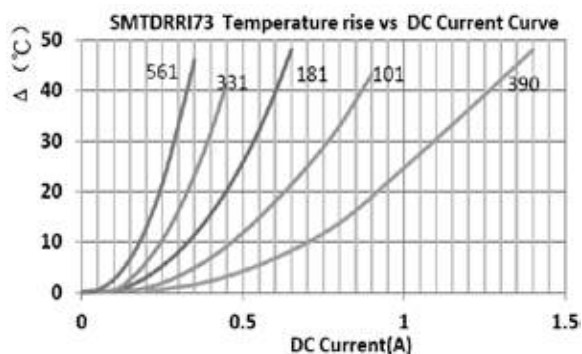
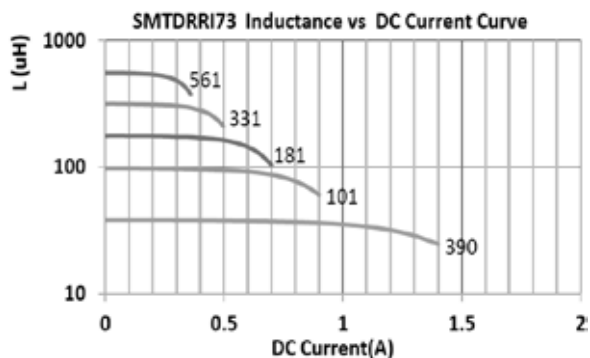




● SMTDRRI73 series

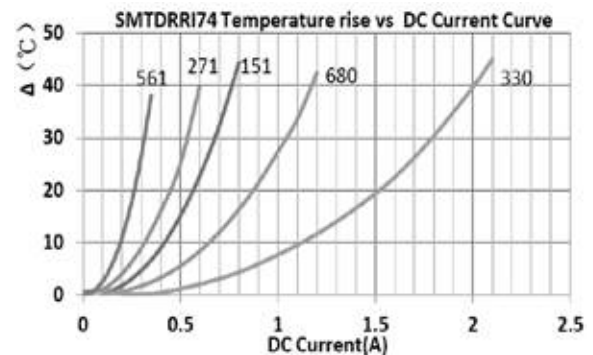
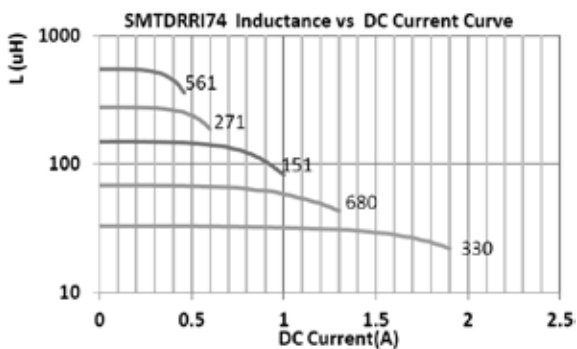
Part NO.	L(μ H)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI73-100M	10	20	72m	57m	2.10	2.60	2.10	2.58
SMTDRRI73-120M	12	20	98m	74m	2.00	2.50	2.00	2.42
SMTDRRI73-150M	15	20	130m	81m	1.60	2.00	1.90	2.38
SMTDRRI73-180M	18	20	0.14	0.12	1.55	1.90	1.70	2.10
SMTDRRI73-220M	22	20	0.19	0.13	1.45	1.80	1.58	1.90
SMTDRRI73-270M	27	20	0.21	0.16	1.20	1.60	1.45	1.75
SMTDRRI73-330M	33	20	0.24	0.17	1.20	1.50	1.38	1.62
SMTDRRI73-390M	39	20	0.32	0.23	1.05	1.30	1.00	1.25
SMTDRRI73-470M	47	20	0.36	0.31	0.96	1.20	0.90	1.20
SMTDRRI73-560M	56	20	0.47	0.35	0.92	1.15	0.85	1.10
SMTDRRI73-680M	68	20	0.52	0.45	0.80	1.00	0.81	1.02
SMTDRRI73-820M	82	20	0.69	0.49	0.76	0.95	0.78	0.95
SMTDRRI73-101M	100	20	0.79	0.56	0.65	0.82	0.70	0.88
SMTDRRI73-121M	120	20	0.89	0.61	0.59	0.74	0.67	0.81
SMTDRRI73-151M	150	20	1.27	0.98	0.53	0.66	0.62	0.64
SMTDRRI73-181M	180	20	1.45	1.14	0.51	0.64	0.49	0.60
SMTDRRI73-221M	220	20	1.65	1.28	0.43	0.54	0.46	0.56
SMTDRRI73-271M	270	20	2.31	1.84	0.39	0.49	0.40	0.50
SMTDRRI73-331M	330	20	2.62	2.23	0.37	0.47	0.37	0.45
SMTDRRI73-391M	390	20	2.94	2.44	0.36	0.45	0.34	0.41
SMTDRRI73-471M	470	20	4.18	3.65	0.29	0.36	0.29	0.36
SMTDRRI73-561M	560	20	4.67	4.13	0.27	0.34	0.26	0.33
SMTDRRI73-681M	680	20	5.73	4.70	0.25	0.31	0.25	0.32
SMTDRRI73-821M	820	20	6.54	5.40	0.23	0.29	0.23	0.28
SMTDRRI73-102M	1000	20	9.44	5.88	0.22	0.27	0.22	0.27

Typical Performance curves:




● SMTDRRI74 series

Part NO.	L(μ H)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI74-100M	10	20	49m	44m	2.35	2.95	2.52	3.24
SMTDRRI74-120M	12	20	58m	50m	2.28	2.85	2.25	2.75
SMTDRRI74-150M	15	20	81m	65m	2.25	2.80	2.00	2.50
SMTDRRI74-180M	18	20	91m	79m	2.00	2.50	1.90	2.38
SMTDRRI74-220M	22	20	110m	83m	1.70	2.10	1.80	2.22
SMTDRRI74-270M	27	20	0.15	0.10	1.45	1.90	1.70	2.10
SMTDRRI74-330M	33	20	0.17	0.12	1.45	1.80	1.64	2.00
SMTDRRI74-390M	39	20	0.23	0.18	1.36	1.70	1.18	1.44
SMTDRRI74-470M	47	20	0.26	0.21	1.21	1.52	1.15	1.40
SMTDRRI74-560M	56	20	0.35	0.27	1.05	1.32	1.08	1.28
SMTDRRI74-680M	68	20	0.38	0.31	0.86	1.08	0.98	1.18
SMTDRRI74-820M	82	20	0.43	0.33	0.84	1.05	0.89	1.09
SMTDRRI74-101M	100	20	0.61	0.50	0.81	1.02	0.78	0.95
SMTDRRI74-121M	120	20	0.66	0.55	0.78	0.98	0.71	0.86
SMTDRRI74-151M	150	20	0.88	0.71	0.76	0.95	0.62	0.78
SMTDRRI74-181M	180	20	0.98	0.81	0.59	0.74	0.61	0.74
SMTDRRI74-221M	220	20	1.17	0.92	0.56	0.70	0.60	0.72
SMTDRRI74-271M	270	20	1.64	1.39	0.45	0.57	0.50	0.60
SMTDRRI74-331M	330	20	1.86	1.58	0.44	0.56	0.41	0.51
SMTDRRI74-391M	390	20	2.85	2.37	0.36	0.45	0.35	0.42
SMTDRRI74-471M	470	20	3.01	2.77	0.36	0.45	0.34	0.41
SMTDRRI74-561M	560	20	3.62	3.07	0.34	0.43	0.29	0.37
SMTDRRI74-681M	680	20	4.63	3.47	0.29	0.37	0.29	0.35
SMTDRRI74-821M	820	20	5.20	3.90	0.28	0.35	0.28	0.34
SMTDRRI74-102M	1000	20	6.00	4.33	0.26	0.33	0.27	0.33

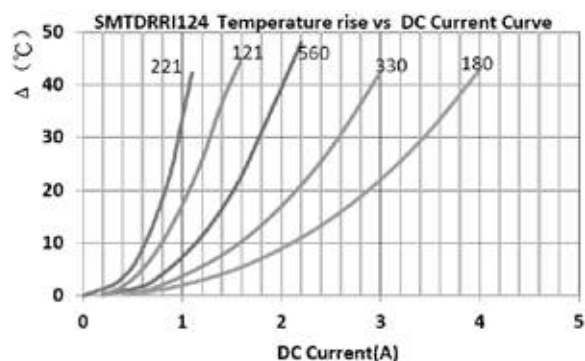
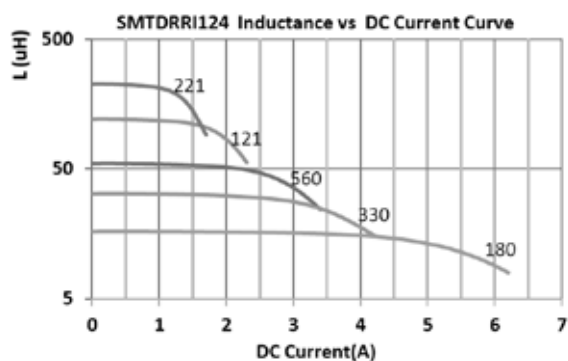
Typical Performance curves:




● SMTDRRI124 series

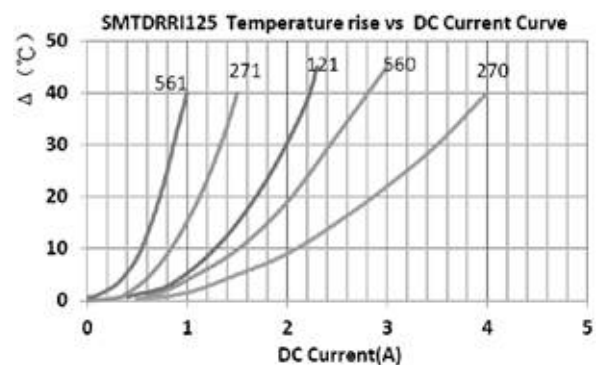
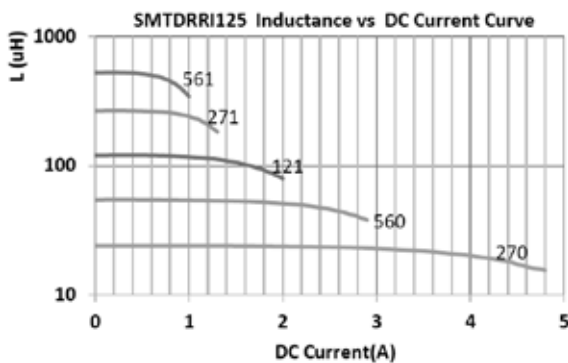
Part NO.	L(uH)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI124-3R9M	3.9	±20	15m	12m	8.40	10.5	5.50	7.00
SMTDRRI124-4R7M	4.7	±20	18m	14m	7.76	9.70	5.00	6.50
SMTDRRI124-6R8M	6.8	±20	23m	18m	5.70	7.10	4.40	5.40
SMTDRRI124-100M	10	±20	28m	24m	4.90	6.10	4.20	5.10
SMTDRRI124-120M	12	±20	38m	30m	4.56	5.70	3.90	4.60
SMTDRRI124-150M	15	±20	50m	39m	4.35	5.40	3.50	4.20
SMTDRRI124-180M	18	±20	57m	43m	4.20	5.20	3.25	3.80
SMTDRRI124-220M	22	±20	66m	57m	3.55	4.40	2.80	3.40
SMTDRRI124-270M	27	±20	80m	74m	3.05	3.80	2.52	3.02
SMTDRRI124-330M	33	±20	97m	78m	2.75	3.40	2.40	2.98
SMTDRRI124-390M	39	±20	132m	110m	2.65	3.30	2.20	2.60
SMTDRRI124-470M	47	±20	0.15	0.12	2.50	3.10	2.00	2.40
SMTDRRI124-560M	56	±20	0.19	0.14	2.15	2.70	1.70	2.00
SMTDRRI124-680M	68	±20	0.22	0.18	2.00	2.50	1.60	1.90
SMTDRRI124-820M	82	±20	0.26	0.20	1.93	2.42	1.50	1.80
SMTDRRI124-101M	100	±20	0.31	0.26	1.56	2.20	1.40	1.70
SMTDRRI124-121M	120	±20	0.38	0.33	1.56	1.95	1.20	1.50
SMTDRRI124-151M	150	±20	0.53	0.46	1.36	1.70	1.00	1.22
SMTDRRI124-181M	180	±20	0.62	0.52	1.27	1.59	0.92	1.12
SMTDRRI124-221M	220	±20	0.70	0.58	1.11	1.39	0.90	1.08
SMTDRRI124-271M	270	±20	0.88	0.73	1.03	1.29	0.85	0.96
SMTDRRI124-331M	330	±20	0.99	0.84	0.85	1.05	0.80	0.95
SMTDRRI124-391M	390	±20	1.25	0.97	0.80	1.00	0.75	0.90
SMTDRRI124-471M	470	±20	1.35	1.06	0.76	0.95	0.70	0.85
SMTDRRI124-102M	1000	±20	3.20	2.62	0.50	0.63	0.50	0.65

Typical Performance curves:



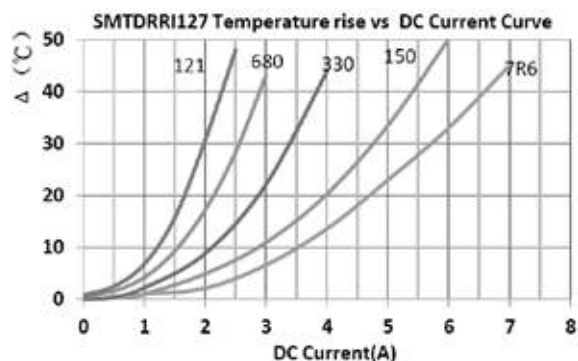
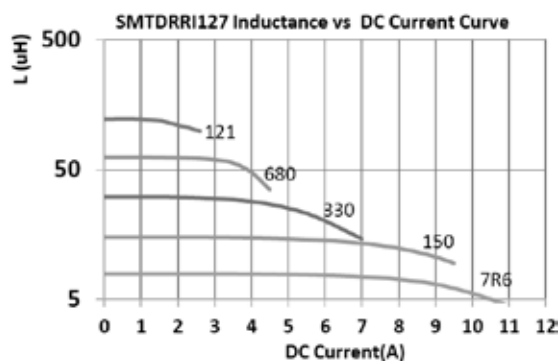

● SMTDRRI125 series

Part NO.	L(uH)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI125-1R3	1.3	+30/-20	12m	7.9m	12.65	15.8	6.00	7.50
SMTDRRI125-2R1	2.1	+30/-20	14m	9.3m	10.80	13.5	5.70	7.00
SMTDRRI125-3R1	3.1	+30/-20	17m	11m	8.80	11.0	5.50	6.80
SMTDRRI125-4R4	4.4	+30/-20	20m	13m	7.60	9.50	5.30	6.60
SMTDRRI125-5R8	5.8	+30/-20	21m	15m	6.90	8.60	5.10	6.40
SMTDRRI125-7R5	7.5	+30/-20	24m	16m	6.00	7.50	5.00	6.10
SMTDRRI125-100	10	± 20	25m	19m	5.30	6.60	4.90	6.00
SMTDRRI125-120	12	± 20	27m	21m	5.15	6.40	4.20	5.20
SMTDRRI125-150	15	± 20	30m	25m	4.35	5.40	4.10	5.00
SMTDRRI125-180	18	± 20	34m	29m	3.95	4.90	3.80	4.80
SMTDRRI125-220	22	± 20	36m	31m	3.55	4.70	3.50	4.30
SMTDRRI125-270	27	± 20	51m	40m	3.55	4.00	3.40	4.00
SMTDRRI125-330	33	± 20	57m	49m	2.86	3.58	3.00	3.60
SMTDRRI125-390	39	± 20	68m	60m	2.65	3.30	2.70	3.26
SMTDRRI125-470	47	± 20	75m	62m	2.56	3.20	2.52	3.10
SMTDRRI125-560	56	± 20	110m	84m	2.25	2.82	2.21	2.78
SMTDRRI125-680	68	± 20	120m	96m	2.05	2.55	2.10	2.60
SMTDRRI125-820	82	± 20	0.14	0.11	1.85	2.30	2.05	2.50
SMTDRRI125-101	100	± 20	0.16	0.12	1.54	1.92	2.02	2.42
SMTDRRI125-121	120	± 20	0.17	0.15	1.45	1.80	1.85	2.22
SMTDRRI125-151	150	± 20	0.23	0.20	1.36	1.70	1.70	2.05
SMTDRRI125-181	180	± 20	0.29	0.23	1.37	1.72	1.52	1.82
SMTDRRI125-221	220	± 20	0.40	0.31	1.16	1.45	1.38	1.62
SMTDRRI125-271	270	± 20	0.46	0.35	0.96	1.20	1.22	1.51
SMTDRRI125-331	330	± 20	0.51	0.41	0.92	1.15	1.10	1.31
SMTDRRI125-391	390	± 20	0.69	0.53	0.88	1.10	0.99	1.20
SMTDRRI125-471	470	± 20	0.77	0.59	0.75	0.94	0.88	1.05
SMTDRRI125-561	560	± 20	0.86	0.68	0.73	0.91	0.80	1.00
SMTDRRI125-681	680	± 20	1.20	0.97	0.29	0.37	0.75	0.90
SMTDRRI125-821	820	± 20	1.34	1.09	0.28	0.35	0.68	0.81
SMTDRRI125-102	1000	± 20	1.53	1.30	0.24	0.30	0.60	0.72

Typical Performance curves:


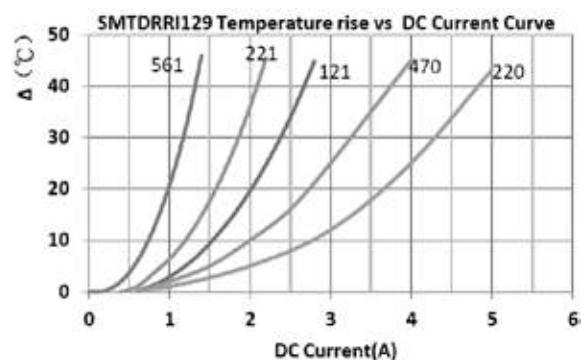
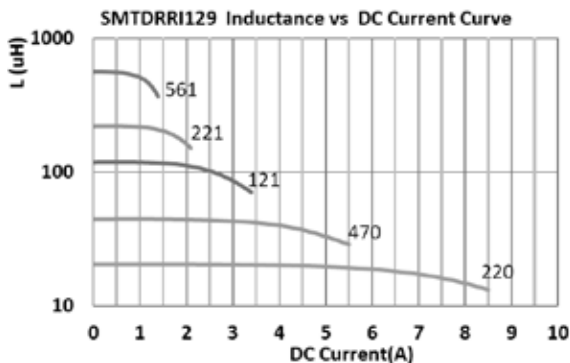
● **SMTDRRI127 series**

Part NO.	L(μ H)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI127-1R2N	1.2	+40/-20	7m	6m	21.0	26.0	9.00	11.0
SMTDRRI127-2R4N	2.4	+40/-20	11.5m	7m	17.0	21.0	8.20	10.2
SMTDRRI127-3R5N	3.5	+40/-20	13.5m	8m	13.0	16.0	6.20	7.60
SMTDRRI127-4R7N	4.7	+40/-20	15.8m	11m	10.0	12.5	5.80	7.20
SMTDRRI127-6R1N	6.1	+40/-20	17.6m	12m	9.50	11.5	5.60	7.00
SMTDRRI127-7R6N	7.6	+40/-20	20.0m	14m	8.70	10.8	5.40	6.60
SMTDRRI127-100M	10	$\pm$ 20	21.6m	15m	7.60	9.50	5.20	6.48
SMTDRRI127-120M	12	$\pm$ 20	24.3m	17m	7.20	9.00	4.80	6.00
SMTDRRI127-150M	15	$\pm$ 20	27.0m	23m	7.00	8.50	4.60	5.60
SMTDRRI127-180M	18	$\pm$ 20	39.2m	27m	5.70	8.10	4.30	5.10
SMTDRRI127-220M	22	$\pm$ 20	43.2m	32m	6.50	8.00	4.20	5.00
SMTDRRI127-270M	27	$\pm$ 20	45.9m	38m	5.40	6.70	3.90	4.50
SMTDRRI127-330M	33	$\pm$ 20	64.8m	56m	4.50	5.50	3.20	3.80
SMTDRRI127-390M	39	$\pm$ 20	72.9m	63m	4.00	5.00	3.00	3.60
SMTDRRI127-470M	47	$\pm$ 20	100m	68m	3.70	4.60	2.75	3.40
SMTDRRI127-560M	56	$\pm$ 20	110m	78m	3.55	4.40	2.70	3.20
SMTDRRI127-680M	68	$\pm$ 20	140m	94m	3.30	4.10	2.40	2.98
SMTDRRI127-820M	82	$\pm$ 20	0.15	0.11	3.05	3.80	2.30	2.70
SMTDRRI127-101M	100	$\pm$ 20	0.22	0.14	2.80	3.50	2.20	2.50
SMTDRRI127-121M	120	$\pm$ 20	0.23	0.15	2.56	3.20	1.80	2.20
SMTDRRI127-151M	150	$\pm$ 20	0.25	0.21	2.20	2.70	1.70	2.00
SMTDRRI127-181M	180	$\pm$ 20	0.32	0.27	2.10	2.60	1.45	1.78
SMTDRRI127-221M	220	$\pm$ 20	0.36	0.30	1.80	2.20	1.42	1.70
SMTDRRI127-271M	270	$\pm$ 20	0.47	0.32	1.70	2.10	1.40	1.64
SMTDRRI127-331M	330	$\pm$ 20	0.52	0.42	1.54	1.92	1.15	1.40
SMTDRRI127-391M	390	$\pm$ 20	0.70	0.45	1.35	1.65	1.10	1.38
SMTDRRI127-471M	470	$\pm$ 20	0.98	0.69	1.22	1.52	0.90	1.25
SMTDRRI127-561M	560	$\pm$ 20	1.07	0.75	1.14	1.42	0.85	1.20
SMTDRRI127-681M	680	$\pm$ 20	1.46	0.84	1.05	1.30	0.81	1.00
SMTDRRI127-821M	820	$\pm$ 20	1.64	1.35	0.95	1.18	0.70	0.90
SMTDRRI127-102M	1000	$\pm$ 20	1.80	1.55	0.82	1.02	0.65	0.76
SMTDRRI127-122M	1200	$\pm$ 20	3.20	2.58	0.76	0.95	0.60	0.70
SMTDRRI127-152M	1500	$\pm$ 20	3.40	2.83	0.72	0.90	0.50	0.65
SMTDRRI127-182M	1800	$\pm$ 20	4.00	3.22	0.60	0.75	0.45	0.50
SMTDRRI127-222M	2200	$\pm$ 20	4.50	3.53	0.56	0.70	0.35	0.45

Typical Performance curves:


● SMTDRRI129 series

Part NO.	L(uH)	Tol.	DCR(Ω)		I sat (A)		I rms (A)	
		%	Max.	Typ.	Max.	Typ.	Max.	Typ.
SMTDRRI129-1R0N	1.0	±30	6.5m	3.6m	26.5	33.0	9.00	12.4
SMTDRRI129-1R8N	1.8	±30	7.5m	4.4m	21.6	27.0	8.00	11.0
SMTDRRI129-2R5N	2.5	±30	9.0m	5.4m	17.5	21.5	7.50	10.7
SMTDRRI129-3R5N	3.5	±30	10.7m	6.3m	16.0	20.0	7.20	10.0
SMTDRRI129-4R7N	4.7	±30	12m	8.6m	13.6	17.0	6.00	8.40
SMTDRRI129-6R8N	6.8	±30	13m	9.7m	10.5	13.0	5.50	7.60
SMTDRRI129-7R5N	7.5	±30	15m	11m	10.0	12.5	5.00	6.90
SMTDRRI129-100N	10	±30	18m	12m	9.00	11.0	4.80	6.50
SMTDRRI129-120M	12	±20	19m	16m	8.50	10.5	4.50	6.40
SMTDRRI129-150M	15	±20	26m	19m	7.20	9.00	4.20	6.10
SMTDRRI129-220M	22	±20	29m	23m	5.95	7.40	4.00	4.80
SMTDRRI129-330M	33	±20	53m	38m	4.80	6.00	3.50	4.40
SMTDRRI129-470M	47	±20	63m	47m	3.95	4.90	3.00	3.80
SMTDRRI129-560M	56	±20	68m	57m	3.76	4.70	2.80	3.50
SMTDRRI129-680M	68	±20	93m	76m	3.68	4.60	2.60	3.30
SMTDRRI129-820M	82	±20	99m	85m	3.40	4.20	2.55	3.10
SMTDRRI129-101M	100	±20	126m	98m	2.56	3.20	2.40	2.80
SMTDRRI129-121M	120	±20	0.15	0.11	2.35	2.90	2.20	2.64
SMTDRRI129-151M	150	±20	0.17	0.12	1.95	2.40	1.81	2.21
SMTDRRI129-181M	180	±20	0.19	0.15	1.76	2.20	1.78	2.18
SMTDRRI129-221M	220	±20	0.25	0.18	1.58	1.98	1.75	2.10
SMTDRRI129-331M	330	±20	0.39	0.26	1.40	1.70	1.41	1.78
SMTDRRI129-471M	470	±20	0.47	0.35	1.00	1.25	1.25	1.52
SMTDRRI129-561M	560	±20	0.65	0.47	1.05	1.28	1.09	1.31
SMTDRRI129-681M	680	±20	0.73	0.58	0.95	1.18	0.95	1.14
SMTDRRI129-821M	820	±20	0.82	0.65	0.80	1.00	0.89	1.08
SMTDRRI129-102M	1000	±20	1.20	0.89	0.75	0.90	0.75	0.91
SMTDRRI129-122M	1200	±20	1.33	1.10	0.65	0.80	0.72	0.89
SMTDRRI129-152M	1500	±20	1.99	1.46	0.60	0.75	0.60	0.71
SMTDRRI129-182M	1800	±20	2.18	1.64	0.57	0.72	0.58	0.68
SMTDRRI129-222M	2200	±20	2.58	1.86	0.40	0.62	0.55	0.65

Typical Performance curves:


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTDRRI SERIES

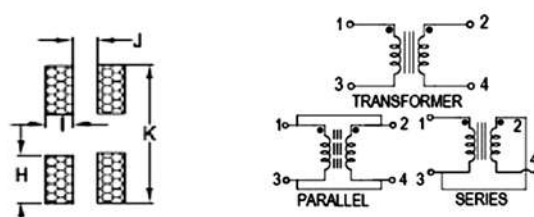
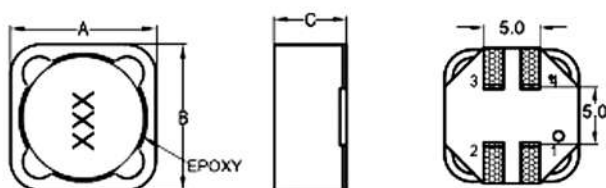
SHIELDED SMT POWER INDUCTORS.

Applications :

- Satellite communication systems.
- TVs and audio equipment.
- Microwave equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A $\pm$ 0.3	B $\pm$ 0.3	C Max.	D	E
SMTDRRI74P	7.3	7.3	4.8	2.5	4.0
SMTDRRI125P	12.0	12.0	6.5	5.0	7.3
SMTDRRI127P	12.0	12.0	8.5	5.0	7.3

Item	I	J	H	K
SMTDRRI74P	1.1	0.8	2.1	7.5
SMTDRRI125P	2.0	1.5	4.0	12.5
SMTDRRI127P	2.0	1.5	4.0	12.5

Features :

- High Q over a wide frequency range.
- With magnetic shield against radiation .
- Directly connected electrode on ferrite core.
- Highly accurate dimensions for automatic mounting.
- Winding to winding isolation 200 Vrms.
- Resistance to soldering heat Max three 10 second reflows at +260°C, parts cooled to room temperature between cycles.
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /85% relative humidity)

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 30% lower than its initial value.(Ta=20°C).
- Temperature Rise (Irms): The current when temperature of coil increases up to Max $\Delta T=40^{\circ}\text{C}$. (Ta=20°C)
- Operating temperature: -40°C to 125°C.

Product identification :

SMT **DRRI74** **P -** **101** **M -** **4P**

1 2 3 4 5 6

- (1).Type : Surface Mount Type.
- (2).Style : L=7.3mm W=7.3mm H=4.5mm.
- (3). Base type : plastify.
- (4).Inductance : 101 for 100 uH.
- (5).Inductance tolerance : K : $\pm 10\%$ M $\pm 20\%$.
- (6).4P : 4 terminals.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.


● SMTDRRI 74P series

PART NO.	L ±20% (uH)	I sat(A) 10%drop Typ.	I sat(A) 20%drop Typ.	I sat(A) 30%drop Typ.	DCR (Ω) Max.	I rms(A) both windings	I rms(A) one windings
SMTDRRI74P-2R5□-4P	2.5	6.00	6.20	6.30	0.036	2.17	3.06
SMTDRRI74P-3R3□-4P	3.3	5.20	5.30	5.40	0.044	2.05	2.89
SMTDRRI74P-4R7□-4P	4.7	4.10	4.30	4.60	0.051	1.74	2.46
SMTDRRI74P-5R6□-4P	5.6	3.90	4.10	4.20	0.063	1.57	2.22
SMTDRRI74P-6R8□-4P	6.8	3.70	3.80	3.90	0.070	1.49	2.10
SMTDRRI74P-8R2□-4P	8.2	3.30	3.40	3.50	0.086	1.44	2.03
SMTDRRI74P-100□-4P	10	2.80	2.90	3.00	0.100	1.24	1.76
SMTDRRI74P-120□-4P	12	2.50	2.60	2.70	0.120	1.14	1.61
SMTDRRI74P-150□-4P	15	2.20	2.30	2.40	0.140	1.09	1.54
SMTDRRI74P-180□-4P	18	2.00	2.20	2.30	0.170	0.95	1.35
SMTDRRI74P-220□-4P	22	1.90	2.00	2.10	0.220	0.84	1.19
SMTDRRI74P-270□-4P	27	1.70	1.80	1.90	0.250	0.79	1.11
SMTDRRI74P-330□-4P	33	1.50	1.60	1.70	0.30	0.76	1.07
SMTDRRI74P-390□-4P	39	1.30	1.40	1.50	0.38	0.64	0.90
SMTDRRI74P-470□-4P	47	1.20	1.30	1.40	0.42	0.61	0.86
SMTDRRI74P-560□-4P	56	1.10	1.20	1.30	0.54	0.58	0.82
SMTDRRI74P-680□-4P	68	1.00	1.10	1.20	0.64	0.51	0.72
SMTDRRI74P-820□-4P	82	0.90	1.00	1.10	0.72	0.48	0.67
SMTDRRI74P-101□-4P	100	0.80	0.92	0.98	0.90	0.45	0.63
SMTDRRI74P-121□-4P	120	0.70	0.80	0.90	1.12	0.39	0.55
SMTDRRI74P-151□-4P	150	0.65	0.76	0.80	1.35	0.34	0.48
SMTDRRI74P-181□-4P	180	0.62	0.66	0.73	1.66	0.32	0.45
SMTDRRI74P-221□-4P	220	0.59	0.62	0.66	2.20	0.30	0.42
SMTDRRI74P-271□-4P	270	0.55	0.57	0.60	2.60	0.25	0.36
SMTDRRI74P-331□-4P	330	0.49	0.52	0.54	3.20	0.24	0.34
SMTDRRI74P-391□-4P	390	0.45	0.47	0.50	4.20	0.23	0.32
SMTDRRI74P-471□-4P	470	0.41	0.43	0.46	4.70	0.20	0.28
SMTDRRI74P-561□-4P	560	0.38	0.40	0.42	5.30	0.19	0.26
SMTDRRI74P-681□-4P	680	0.36	0.37	0.38	7.00	0.18	0.25
SMTDRRI74P-821□-4P	820	0.30	0.32	0.35	7.80	0.15	0.21
SMTDRRI74P-102□-4P	1000	0.27	0.29	0.31	10.8	0.14	0.20

1. Inductance shown for each winding, measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LCR meter or equivalent. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
3. DC current, when applied to one winding, at which the inductance drops the specified amount from its value without current.
4. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
5. Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
6. Electrical specifications at 25°C.



SMTDRRI 74P series

PART NO.	leads connected in parallel				leads connected in series			
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	I rms (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	I rms (A)
SMTDRRI74P-2R5-□4P	2.5	0.018	6.30	4.33	10.0	0.072	3.15	2.17
SMTDRRI74P-3R3-□4P	3.3	0.022	5.40	4.09	13.2	0.088	2.70	2.05
SMTDRRI74P-4R7-□4P	4.7	0.026	4.60	3.48	18.8	0.102	2.30	1.74
SMTDRRI74P-5R6-□4P	5.6	0.032	4.20	3.14	22.4	0.126	2.10	1.57
SMTDRRI74P-6R8-□4P	6.8	0.035	3.90	2.97	27.2	0.140	1.95	1.49
SMTDRRI74P-8R2-□4P	8.2	0.043	3.50	2.87	32.8	0.172	1.75	1.44
SMTDRRI74P-100-□4P	10	0.050	3.00	2.49	40.0	0.20	1.50	1.24
SMTDRRI74P-120-□4P	12	0.060	2.70	2.28	48.0	0.24	1.35	1.14
SMTDRRI74P-150-□4P	15	0.070	2.40	2.18	60.0	0.28	1.20	1.09
SMTDRRI74P-180-□4P	18	0.085	2.30	1.91	72.0	0.34	1.15	0.95
SMTDRRI74P-220-□4P	22	0.110	2.10	1.68	88.0	0.44	1.05	0.84
SMTDRRI74P-270-□4P	27	0.125	1.90	1.57	108	0.50	0.95	0.79
SMTDRRI74P-330-□4P	33	0.150	1.70	1.51	132	0.60	0.85	0.76
SMTDRRI74P-390-□4P	39	0.190	1.50	1.27	156	0.76	0.75	0.64
SMTDRRI74P-470-□4P	47	0.21	1.40	1.22	188	0.84	0.70	0.61
SMTDRRI74P-560-□4P	56	0.27	1.30	1.16	224	1.08	0.65	0.58
SMTDRRI74P-680-□4P	68	0.32	1.20	1.02	272	1.28	0.60	0.51
SMTDRRI74P-820-□4P	82	0.36	1.10	0.95	328	1.44	0.55	0.48
SMTDRRI74P-101-□4P	100	0.45	0.98	0.89	400	1.80	0.49	0.45
SMTDRRI74P-121-□4P	120	0.56	0.90	0.78	480	2.24	0.45	0.39
SMTDRRI74P-151-□4P	150	0.675	0.80	0.68	600	2.70	0.40	0.34
SMTDRRI74P-181-□4P	180	0.83	0.73	0.64	720	3.32	0.36	0.32
SMTDRRI74P-221-□4P	220	1.10	0.66	0.59	880	4.40	0.33	0.30
SMTDRRI74P-271-□4P	270	1.30	0.60	0.51	1080	5.20	0.30	0.25
SMTDRRI74P-331-□4P	330	1.60	0.54	0.48	1320	6.40	0.27	0.24
SMTDRRI74P-391-□4P	390	2.10	0.50	0.45	1560	8.40	0.25	0.23
SMTDRRI74P-471-□4P	470	2.35	0.46	0.40	1880	9.40	0.23	0.20
SMTDRRI74P-561-□4P	560	2.65	0.42	0.37	2240	10.6	0.21	0.19
SMTDRRI74P-681-□4P	680	3.50	0.38	0.35	2720	14.0	0.19	0.18
SMTDRRI74P-821-□4P	820	3.90	0.35	0.30	3280	15.6	0.175	0.15
SMTDRRI74P-102-□4P	1000	5.40	0.31	0.28	4000	21.6	0.155	0.14

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings when connected in parallel. DCR for each winding is twice the value.
4. DC current at which the inductance drops 30% (typ) from its value without current.
5. Current that causes a 40°C temperature rise from 25°C ambient.
6. DCR is for both windings.
7. Electrical specifications at 25°C.
8. Inductance tolerance: 2.5uH~100uH tolerance can be done "M" 120uH~1000uH tolerance can be done "K"



● **SMTDRRI125P series**

PART NO.	L ±20% (μH)	I sat(A) 30%drop Typ.	DCR (Ω) Max.	I rms(A) both windings	I rms(A) one windings
SMTDRRI125P-4R7□-4P	4.7	10.30	0.036	3.16	4.47
SMTDRRI125P-5R6□-4P	5.6	9.66	0.040	3.00	4.24
SMTDRRI125P-6R8□-4P	6.8	9.21	0.048	2.75	3.88
SMTDRRI125P-8R2□-4P	8.2	8.55	0.052	2.63	3.72
SMTDRRI125P-100□-4P	10	7.40	0.060	2.45	3.46
SMTDRRI125P-120□-4P	12	6.86	0.074	2.21	3.12
SMTDRRI125P-150□-4P	15	6.09	0.085	2.06	2.92
SMTDRRI125P-180□-4P	18	5.30	0.097	1.93	2.73
SMTDRRI125P-220□-4P	22	5.01	0.116	1.76	2.49
SMTDRRI125P-270□-4P	27	4.66	0.124	1.70	2.41
SMTDRRI125P-330□-4P	33	4.22	0.134	1.64	2.32
SMTDRRI125P-390□-4P	39	3.80	0.142	1.59	2.25
SMTDRRI125P-470□-4P	47	3.25	0.174	1.44	2.03
SMTDRRI125P-560□-4P	56	3.07	0.198	1.35	1.91
SMTDRRI125P-680□-4P	68	2.83	0.216	1.29	1.83
SMTDRRI125P-820□-4P	82	2.55	0.274	1.15	1.62
SMTDRRI125P-101□-4P	100	2.20	0.322	1.06	1.50
SMTDRRI125P-121□-4P	120	2.05	0.418	0.93	1.31
SMTDRRI125P-151□-4P	150	1.82	0.476	0.87	1.23
SMTDRRI125P-181□-4P	180	1.60	0.536	0.82	1.16
SMTDRRI125P-221□-4P	220	1.51	0.691	0.72	1.02
SMTDRRI125P-271□-4P	270	1.41	0.806	0.67	0.95
SMTDRRI125P-331□-4P	330	1.28	1.09	0.57	0.81
SMTDRRI125P-391□-4P	390	1.16	1.20	0.55	0.77
SMTDRRI125P-471□-4P	470	1.00	1.59	0.48	0.67
SMTDRRI125P-561□-4P	560	0.95	1.81	0.45	0.63
SMTDRRI125P-681□-4P	680	0.88	2.06	0.42	0.59
SMTDRRI125P-821□-4P	820	0.79	2.65	0.37	0.52
SMTDRRI125P-102□-4P	1000	0.69	3.06	0.34	0.49

- Inductance shown for each winding, measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LCR meter or equivalent.
When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
- DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
- DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.
- Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient. .
- Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
- Electrical specifications at 25°C.



● SMTDRRI125P series

PART NO.	leads connected in parallel				leads connected in series			
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	I rms (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	I rms (A)
SMTDRRI125P-4R7□-4P	4.7	0.018	10.30	7.2	18.8	0.072	5.15	3.4
SMTDRRI125P-5R6□-4P	5.6	0.020	9.66	7.0	22.4	0.080	4.83	3.3
SMTDRRI125P-6R8□-4P	6.8	0.024	9.21	6.6	27.2	0.095	4.61	3.2
SMTDRRI125P-8R2□-4P	8.2	0.026	8.55	6.4	32.8	0.104	4.28	3.1
SMTDRRI125P-100□-4P	10	0.030	7.40	5.4	40.0	0.120	3.70	2.8
SMTDRRI125P-120□-4P	12	0.037	6.86	5.2	48.0	0.147	3.43	2.7
SMTDRRI125P-150□-4P	15	0.042	6.09	4.6	60.0	0.170	3.05	2.5
SMTDRRI125P-180□-4P	18	0.048	5.30	4.4	72.0	0.194	2.65	2.2
SMTDRRI125P-220□-4P	22	0.058	5.01	4.2	88.0	0.232	2.51	2.1
SMTDRRI125P-270□-4P	27	0.062	4.66	3.7	108	0.248	2.33	1.9
SMTDRRI125P-330□-4P	33	0.067	4.22	3.6	132	0.268	2.11	1.6
SMTDRRI125P-390□-4P	39	0.071	3.80	3.2	156	0.284	1.90	1.5
SMTDRRI125P-470□-4P	47	0.087	3.25	2.9	188	0.348	1.63	1.4
SMTDRRI125P-560□-4P	56	0.099	3.07	2.7	224	0.396	1.54	1.3
SMTDRRI125P-680□-4P	68	0.108	2.83	2.5	272	0.432	1.42	1.2
SMTDRRI125P-820□-4P	82	0.137	2.55	2.3	328	0.548	1.28	1.1
SMTDRRI125P-101□-4P	100	0.161	2.20	1.9	400	0.642	1.10	1.0
SMTDRRI125P-121□-4P	120	0.209	2.05	1.8	480	0.834	1.03	0.8
SMTDRRI125P-151□-4P	150	0.238	1.82	1.7	600	0.952	0.91	0.78
SMTDRRI125P-181□-4P	180	0.268	1.60	1.6	720	1.072	0.80	0.75
SMTDRRI125P-221□-4P	220	0.346	1.51	1.5	880	1.382	0.76	0.71
SMTDRRI125P-271□-4P	270	0.403	1.41	1.4	1080	1.61	0.71	0.65
SMTDRRI125P-331□-4P	330	0.545	1.28	1.2	1320	2.18	0.64	0.56
SMTDRRI125P-391□-4P	390	0.600	1.16	1.0	1560	2.40	0.58	0.50
SMTDRRI125P-471□-4P	470	0.795	1.00	0.86	1880	3.18	0.50	0.41
SMTDRRI125P-561□-4P	560	0.905	0.95	0.80	2240	3.62	0.48	0.38
SMTDRRI125P-681□-4P	680	1.030	0.88	0.74	2720	4.12	0.44	0.35
SMTDRRI125P-821□-4P	820	1.325	0.79	0.67	3280	5.30	0.40	0.32
SMTDRRI125P-102□-4P	1000	1.530	0.69	0.50	4000	6.12	0.35	0.29

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings when connected in parallel.
4. DCR for each winding is twice the value.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Inductance tolerance: 4.7uH~100uH tolerance can be done "M", 120uH~1000uH tolerance can be done "K"


● SMTDRRI127P series

PART NO.	L ±20% (uH)	I sat(A) 30%drop Typ.	DCR (Ω) Max.	I rms(A) both windings	I rms(A) one windings
SMTDRRI127P-4R7□-4P	4.7	14.9	0.038	3.16	4.47
SMTDRRI127P-5R6□-4P	5.6	13.4	0.046	2.87	4.06
SMTDRRI127P-6R8□-4P	6.8	13.1	0.048	2.81	3.98
SMTDRRI127P-8R2□-4P	8.2	10.8	0.050	2.76	3.90
SMTDRRI127P-100□-4P	10	10.5	0.058	2.56	3.62
SMTDRRI127P-120□-4P	12	9.6	0.062	2.48	3.50
SMTDRRI127P-150□-4P	15	9.1	0.072	2.30	3.25
SMTDRRI127P-180□-4P	18	8.0	0.080	2.18	3.08
SMTDRRI127P-220□-4P	22	6.8	0.096	1.99	2.81
SMTDRRI127P-270□-4P	27	6.5	0.12	1.78	2.52
SMTDRRI127P-330□-4P	33	5.6	0.15	1.59	2.25
SMTDRRI127P-390□-4P	39	5.5	0.16	1.54	2.18
SMTDRRI127P-470□-4P	47	5.2	0.18	1.45	2.05
SMTDRRI127P-560□-4P	56	4.5	0.19	1.41	2.00
SMTDRRI127P-680□-4P	68	4.1	0.21	1.35	1.90
SMTDRRI127P-820□-4P	82	3.8	0.28	1.16	1.65
SMTDRRI127P-101□-4P	100	3.4	0.30	1.13	1.59
SMTDRRI127P-121□-4P	120	3.2	0.41	0.96	1.36
SMTDRRI127P-151□-4P	150	2.8	0.46	0.91	1.29
SMTDRRI127P-181□-4P	180	2.5	0.51	0.86	1.22
SMTDRRI127P-221□-4P	220	2.3	0.69	0.74	1.05
SMTDRRI127P-271□-4P	270	2.1	0.90	0.65	0.92
SMTDRRI127P-331□-4P	330	1.9	1.02	0.61	0.86
SMTDRRI127P-391□-4P	390	1.7	1.12	0.58	0.82
SMTDRRI127P-471□-4P	470	1.6	1.43	0.50	0.70
SMTDRRI127P-561□-4P	560	1.5	1.69	0.47	0.67
SMTDRRI127P-681□-4P	680	1.3	2.29	0.41	0.58
SMTDRRI127P-821□-4P	820	1.2	2.55	0.39	0.55
SMTDRRI127P-102□-4P	1000	1.1	2.83	0.37	0.52

- Inductance shown for each winding, measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LCR meter or equivalent.
When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
- DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
- DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.
- Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
- Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
- Electrical specifications at 25°C.



● SMTDRRI 127P series

PART NO.	leads connected in parallel					leads connected in series				
	L ±20% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)	L ±25% (uH)	DCR (Ω) Max.	I sat(A) 30%drop Typ.	SRF MHz Typ.	I rms (A)
SMTDRRI127P-4R7□-4P	4.7	0.019	14.9	32.0	7.4	18.8	0.076	7.70	12.0	3.6
SMTDRRI127P-5R6□-4P	5.6	0.023	13.4	25.0	7.2	22.4	0.092	6.60	10.4	3.5
SMTDRRI127P-6R8□-4P	6.8	0.024	13.1	24.0	6.9	27.2	0.096	6.40	9.5	3.4
SMTDRRI127P-8R2□-4P	8.2	0.025	10.8	18.0	6.6	32.8	0.100	5.60	7.2	3.3
SMTDRRI127P-100□-4P	10	0.029	10.5	16.5	6.2	40.0	0.116	5.40	6.6	3.2
SMTDRRI127P-120□-4P	12	0.031	9.60	14.5	6.0	48.0	0.124	4.80	5.4	2.9
SMTDRRI127P-150□-4P	15	0.036	9.10	11.8	5.8	60.0	0.144	4.30	5.0	2.7
SMTDRRI127P-180□-4P	18	0.040	8.00	10.5	5.5	72.0	0.158	3.90	3.8	2.5
SMTDRRI127P-220□-4P	22	0.048	6.80	9.0	5.2	88.0	0.19	3.50	3.4	2.2
SMTDRRI127P-270□-4P	27	0.060	6.50	8.4	4.7	108	0.24	3.40	3.2	2.0
SMTDRRI127P-330□-4P	33	0.075	5.60	7.6	4.2	132	0.30	3.10	3.0	1.7
SMTDRRI127P-390□-4P	39	0.080	5.50	6.5	3.6	156	0.32	2.80	2.6	1.6
SMTDRRI127P-470□-4P	47	0.090	5.20	6.0	3.0	188	0.36	2.60	2.1	1.5
SMTDRRI127P-560□-4P	56	0.095	4.50	5.6	2.8	224	0.38	2.40	2.0	1.4
SMTDRRI127P-680□-4P	68	0.105	4.10	5.0	2.6	272	0.42	2.10	1.6	1.3
SMTDRRI127P-820□-4P	82	0.140	3.80	4.1	2.3	328	0.56	1.90	1.3	1.2
SMTDRRI127P-101□-4P	100	0.150	3.40	3.6	2.0	400	0.60	1.70	1.1	1.1
SMTDRRI127P-121□-4P	120	0.205	3.20	3.2	1.9	480	0.82	1.60	1.0	1.0
SMTDRRI127P-151□-4P	150	0.230	2.80	3.0	1.8	600	0.92	1.40	0.82	0.89
SMTDRRI127P-181□-4P	180	0.255	2.50	2.7	1.7	720	1.02	1.30	0.70	0.84
SMTDRRI127P-221□-4P	220	0.345	2.30	2.5	1.6	880	1.38	1.10	0.64	0.75
SMTDRRI127P-271□-4P	270	0.450	2.10	2.1	1.5	1080	1.80	1.00	0.55	0.71
SMTDRRI127P-331□-4P	330	0.510	1.90	2.0	1.3	1320	2.04	0.92	0.47	0.62
SMTDRRI127P-391□-4P	390	0.560	1.70	1.8	1.1	1560	2.24	0.84	0.41	0.53
SMTDRRI127P-471□-4P	470	0.765	1.60	1.6	0.87	1880	3.06	0.80	0.36	0.43
SMTDRRI127P-561□-4P	560	0.845	1.50	1.5	0.83	2240	3.38	0.73	0.31	0.40
SMTDRRI127P-681□-4P	680	1.145	1.30	1.4	0.76	2720	4.58	0.63	0.30	0.36
SMTDRRI127P-821□-4P	820	1.275	1.20	1.3	0.69	3280	5.10	0.58	0.24	0.33
SMTDRRI127P-102□-4P	1000	1.415	1.10	1.1	0.60	4000	5.66	0.56	0.20	0.30

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1Vrms, 0Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings connected in parallel. DCR for each winding is twice the value.
4. DCR for each winding is twice the value.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Inductance tolerance: 4.7uH~100uH tolerance can be done "M", 120uH~1000uH tolerance can be done "K"

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



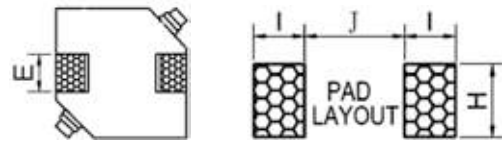
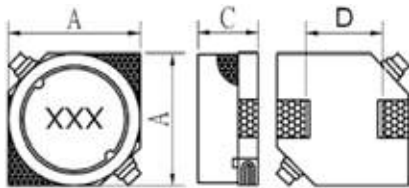
SMTDRS SERIES

SHIELDED SMT POWER INDUCTORS.

Applications :

- Portable telephones.
- Personable computers.
- DC/DC converters, etc.
- Other various electronic appliances.

Shape and Dimensions (Dimensions are in mm) :



Item	A(MAX)	C(MAX)	D
DRS0628	6.2	3.0	3.0
DRS0728	7.2	3.0	4.0
DRS0730	7.2	3.2	4.0
DRS0732	7.2	3.4	4.0
DRS0745	7.2	4.8	4.0
DRS1045	10.4	4.8	6.0
DRS1255	12.8	5.85	8.6
DRS1265	12.8	6.85	8.6
DRS1275	12.8	7.85	8.6

Item	E	H	I	J
DRS0628	2.0	2.2	2.0	3.0
DRS0728	2.0	2.2	2.0	4.0
DRS0730	2.0	2.2	2.0	4.0
DRS0732	2.0	2.2	2.0	4.0
DRS0745	2.0	2.2	2.0	4.0
DRS1045	3.0	3.2	2.5	5.6
DRS1255	3.0	3.2	2.5	8.6
DRS1265	3.0	3.2	2.5	8.6
DRS1275	3.0	3.2	2.5	8.6

Features :

- Compact, low profile with low Rdc and high current.
- With magnetic shield against radiation.
- Flat bottom surface allows for reliable mounting on the board.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% (0628 is 30%) lower than its initial value. (Ta=20°C)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -30°C to 105°C.

Product identification :

SMT DRS0732 - 101 M

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type**.

(2)Style : **DR** Core with Shield. **0732** is size.

(3)Inductance : **101** for **100** uH.

(4)Inductance tolerance : "**M**": $\pm 20\%$ "**N**": $\pm 30\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.(@1kHz 0.5V)
- DCR measured on Chroma16502 Milliohm Meter or equivalent.
- Electrical specifications at 25°C.



● **SMTDRS 0628 / 0728 / 0730 series**

Part No.	L @1kHz (μH)	DCR (Ω) ±20%			Rated Current (A) Max.					
					I sat			I rms		
		0628	0728	0730	0628	0728	0730	0628	0728	0730
3R3M	3.3		0.037	0.023		1.60	1.80		1.60	1.80
4R7M	4.7	0.036	0.045	0.036	1.60	1.50	1.60	2.50	1.50	1.60
6R8M	6.8	0.052	0.059	0.041	1.50	1.30	1.50	2.20	1.30	1.50
100M	10	0.068	0.083	0.053	1.30	1.10	1.30	1.80	1.10	1.30
150M	15	0.100	0.130	0.084	1.00	0.88	1.00	1.40	0.88	1.00
220M	22	0.120	0.180	0.110	0.77	0.75	0.86	1.30	0.75	0.86
330M	33	0.180	0.240	0.160	0.69	0.65	0.65	1.10	0.65	0.65
470M	47	0.270	0.340	0.240	0.59	0.54	0.57	0.92	0.54	0.57
680M	68	0.390		0.310	0.50		0.49	0.78		0.49
101M	100	0.620		0.450	0.42		0.35	0.64		0.35

● **SMTDRS 0732 / 0745 / 1045 series**

Part No.	L @1kHz (μH)	DCR (Ω) ±20%			Rated Current (A) Max.					
					I sat			I rms		
		0732	0745	1045	0732	0745	1045	0732	0745	1045
3R3M	3.3	0.023	0.020		1.90	2.50		1.90	2.30	
4R7M	4.7	0.036	0.030		1.70	2.00		1.70	2.10	
6R8M	6.8	0.041	0.033		1.60	1.70		1.60	1.74	
100M	10	0.053	0.036	0.036	1.40	1.30	3.00	1.40	1.78	2.50
150M	15	0.075	0.052	0.047	1.10	1.10	2.40	1.10	1.53	2.20
220M	22	0.110	0.061	0.059	0.96	0.90	2.10	0.96	1.34	1.90
330M	33	0.160	0.096	0.082	0.75	0.82	1.60	0.75	1.09	1.70
470M	47	0.240	0.125	0.100	0.67	0.75	1.40	0.67	0.92	1.50
680M	68	0.310	0.175	0.140	0.59	0.60	1.20	0.59	0.77	1.30
101M	100	0.450	0.250	0.200	0.45	0.50	1.00	0.45	0.65	1.10
151M	150	0.650	0.340	0.350	0.37	0.40	0.79	0.37	0.55	0.81
221M	220	1.050	0.520	0.470	0.29	0.33	0.65	0.29	0.45	0.70
331M	330	1.670	0.740	0.680	0.22	0.25	0.54	0.22	0.37	0.58
471M	470	2.050	1.050	1.030	0.20	0.22	0.47	0.20	0.31	0.47
681M	680	3.150	1.480	1.600	0.16	0.20	0.38	0.16	0.27	0.38
102M	1000	4.780	2.280	2.800	0.13	0.14	0.32	0.13	0.25	0.29
152M	1500			3.400			0.22			0.26



● **SMTDRS 1255 / 1265 / 1275 series**

Part No.	L @1kHz (μ H)	DCR (m Ω) $\pm$ 20%			Rated Current (Amp) Max.					
					I sat			I rms		
		1255	1265	1275	1255	1265	1275	1255	1265	1275
1R2N	1.2			6.9			13.0			8.2
2R0N	2.0		11.7			10.0			6.2	
2R7N	2.7			9.4			10.0			7.0
3R9N	3.9			10.4			9.0			6.7
4R2N	4.2		15.0			7.3			5.5	
5R6N	5.6			11.6			7.8			6.3
6R0N	6.0	16.4			3.60			4.9		
6R8N	6.8			13.1			7.2			5.9
7R0M	7.0		17.7			5.7			5.0	
100M	10	21.5	20.2	15.6	3.40	5.0	5.5	4.3	4.8	5.4
150M	15	25.9	23.7	23.0	2.80	4.2	4.7	3.9	4.4	5.0
220M	22	33.8	31.6	26.3	2.30	3.5	4.0	3.4	3.8	4.0
330M	33	41.5	40.6	39.5	1.90	2.8	3.2	3.1	3.4	3.4
470M	47	61.8	57.8	52.8	1.60	2.4	2.7	2.5	2.8	3.0
680M	68	83.2	78.7	77.8	1.30	2.0	2.0	2.2	2.4	2.4
101M	100	117	123	125	1.10	1.6	1.9	1.8	1.9	1.9
151M	150	190	273	175	0.88	1.0	1.5	1.4	1.2	1.6
221M	220	270		258	0.72		1.3	1.2		1.3
331M	330	410			0.59			1.0		
471M	470	520			0.49			0.88		
681M	680	760			0.43			0.73		
102M	1000	1120			0.34			0.60		
152M	1500	1730			0.29			0.48		

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTBW104/105 SERIES

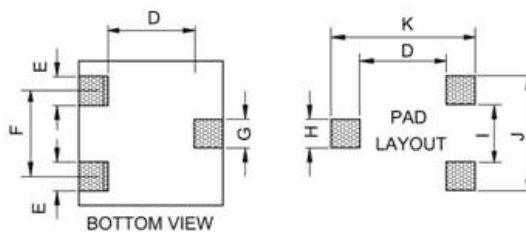
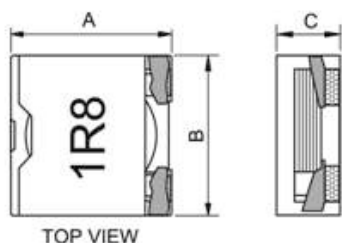
SMT FLAT WIRE COLLS

Applications :

- Notebook /Desktop/server applications.
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
SMTBW104	10.4	10.4	4.5	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0
SMTBW105	10.4	10.4	5.6	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 20%("N" is 30%) lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature: -40°C to 105°C

Product identification :

SMT BW105 S - 1R8 M

(1) (2) (3) (4)

(1)Type :Surface Mountable Type .

(2)Style :Flat wire with **ER** Core and **S** or **H** is used for a hight current type instead of BW105.

(3)Inductance : **1R8** for 1.8 uH.

(4)Inductance tolerance : "**N**": $\pm 30\%$ "**M**": $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



● SMTBW104/105 series

Part No.	Induc L (μH)	DC Resistance (mΩ)Max.					Rated Current (A)Max.				
		104L	104S	105L	105S	105H	104L	104S	105L	105S	105H
R15	0.15					1.7					19.0
R22	0.22		2.2		1.7			18.0		19.0	
R30	0.30					2.4					17.7
R36	0.36	2.2		1.7			18.0		19.0		
R45	0.45		3.7		2.4			13.4		17.7	
R50	0.50					4.1					13.0
R80	0.80	3.7	5.9	2.4	4.1	5.3	13.4	10.2	16.0	13.0	11.2
1R2	1.2					7.5					9.0
1R3	1.3		11.8		5.3			7.3		11.2	
1R4	1.4	5.9		4.1			10.2		12.0		
1R5	1.5					10.5					7.8
1R8	1.8		18.6		7.5			5.4		9.0	
2R0	2.0					12.4					7.4
2R2	2.2	11.8		5.3			7.3		9.6		
2R5	2.5		21.8		10.5			5.0		7.8	
3R0	3.0					23.8					4.9
3R2	3.2	18.6		7.5	12.4		5.4		7.8	7.4	
4R0	4.0				18.0					6.2	
4R3	4.3	21.8		10.5			5.0		6.8		
5R0	5.0				23.8					4.9	
5R7	5.7			12.4					5.8		
7R2	7.2			18.0					5.3		
8R8	8.8			23.8					4.8		

· Note:

· Measuring Frequency :

100KHz , 1V

· Tolerance of Inductance :

SMTBW104L 0.36uH ± 30%(N) ; 0.80uH-4.3uH ± 20%(M).

SMTBW104S 0.22uH ± 30%(N) ; 0.45uH-2.5uH ± 20%(M).

SMTBW105L 0.36~0.80uH ± 30%(N) ; 2.2uH-8.8uH ± 20%(M).

SMTBW105S 0.22uH ± 30%(N) ; 0.45uH-5.0uH ± 20%(M).

SMTBW105H 0.15uH , 0.3± 30%(N) ; 0.50uH-3.0uH ± 20%(M).

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTBW125/134 SERIES

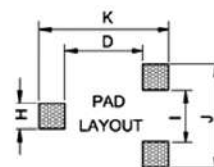
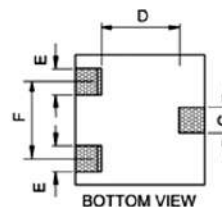
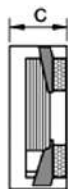
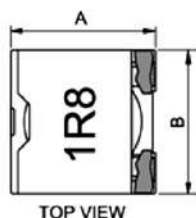
SMT FLAT WIRE COLLS

Applications :

- Notebook /Desktop/server applications.
- Battery Power equipment
- DC/DC converters,
- Power supplier, etc.



Shape and Dimensions :



Item	A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
SMTBW125	12.9	12.9	5.7	8.2	2.6	7.0	2.5	3.0	4.0	10.0	13.5
SMTBW134	13.9	13.9	5.0	9.6	2.6	7.2	2.5	2.6	4.4	10.0	15.0

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: It is either the inductance is 20% ("N" is 30%) lower is than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever lower.
- Operating temperature: -40°C to 105°C .

Product Identification :

SMT BW125 U - 1R8 M

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : Flat wire with **ER** Core and **H** or **U** is used or a big current type instead of **BW125**.

(3)Inductance : **1R8** for **1.8** μH .

(4)Inductance tolerance : "**N**": $\pm 30\%$ "**M**": $\pm 20\%$;

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



● **SMTBW125/134 series**

Part No.	Inductance L (μH)	DC Resistance (mΩ)Max.					Rate Current (A)Max.				
		125	125H	125U	134	134H	125	125H	125U	134	134H
R30	0.30					1.90					18.5
R35	0.35			1.8					18.5		
R40	0.40				1.9					18.5	
R66	0.66					2.5					17.0
R80	0.80			2.5					16.5		
R90	0.90				2.5					17.0	
1R0	1.0		2.5					16.5			
1R2	1.2					3.7					15.0
1R4	1.4			3.4					15.5		
1R5	1.5	2.5					14.0				
1R6	1.6				3.7					15.0	
1R8	1.8		3.4			6.6		15.3			10.5
2R2	2.2			5.4					12.5		
2R5	2.5	3.4			6.6		10.0			10.5	
2R7	2.7					10.8					8.0
2R8	2.8		5.4					12.3			
3R2	3.2			8.0					9.9		
3R6	3.6				10.8	12.0				8.0	7.5
4R0	4.0	8.0	8.0				8.3	9.9			
4R3	4.3			11.4					8.2		
4R8	4.8				12.0	16.3				7.5	7.0
5R6	5.6		11.4	13.5				8.2	7.6		
6R0	6.0	8.0				18.4	6.7				6.5
6R4	6.4				16.3					7.0	
7R2	7.2		13.5					7.6			
8R0	8.0				18.4					6.5	
8R2	8.2	11.4					5.8				
100	10.0	13.5					5.0				

· Note

· Measuring Frequency : 100KHZ , 100mV

· Tolerance of Inductance :

SMTBW125 ± 20%(M); SMTBW125(H) ±20% (M)

SMTBW125U 0.35uH,0.8uH ±30% (N) ; 1.4uH-5.6uH± 20%(M)

SMTBW134 0.4uH±30% (N); 0.9uH-8.0uH± 20%(M)

SMTBW134H 0.3uH,0.66uH ±30% (N); 1.2uH-6.0uH± 20%(M)

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



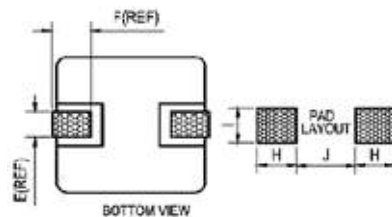
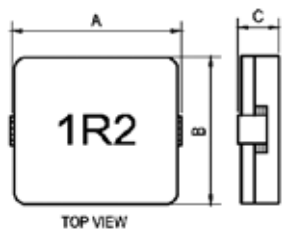
SMTER63/64/65 SERIES

SMT FLAT WIRE COLLS

Applications :

- Computer and portable power devices.
- Energy storage applications.
- DC/DC converters.
- Input – output filter application.

Shape and Dimensions (Dimensions are in mm)



Item	A Max.	B Max.	C Max.
ER63	7.9	7.0	3.0
ER64	7.9	7.0	4.0
ER65	7.9	7.0	5.0

Item	E	F	H	I	J
ER63	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER64	2.5±0.3	1.6±0.2	2.5	4.0	3.0
ER65	2.5±0.3	1.6±0.2	2.5	4.0	3.0

Features :

- Super flux core materials.
- High current.
- Low DCR
- Frequency range up to 2MHz.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% (or 15%) lower than its initial value.(Ta=20°C).
- Temperature Rise Current(I rms): The current when temperature of coil increase up to max.
 $\Delta T=40^{\circ}\text{C}$.(Ta=20°C).
- Operating temperature : -40°C to 125°C.

Product identification :

SMT ER65 - 1R0 M

(1) (2) (3) (4)

(1)Type : **Surface Mountable Type** .

(2)Style : Flat wire with **ER** core.

(3)Inductance : **1R0** for **1.0uH**.

(4)Inductance tolerance : "**M**": ±20%.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C

Part No.	L (uH) ±20%	DCR (mΩ) Max	I sat L Drop 10% (A) Typ.	I sat L Drop 15% (A) Typ.	I rms (A) Max	Height (mm) Max
SMTER63 - R10M	0.10	1.2	22.0	32.0	19.0	3.0
SMTER64 - R22M	0.22	1.8	16.0	24.0	15.0	4.0
SMTER64 - R47M	0.47	2.5	11.0	16.0	13.0	4.0
SMTER65 - R68M	0.68	3.2	10.0	14.0	12.0	5.0
SMTER65 - 1R0M	1.00	4.0	8.5	11.0	11.0	5.0
SMTER65 - 1R5M	1.50	4.5	7.0	9.0	10.0	5.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



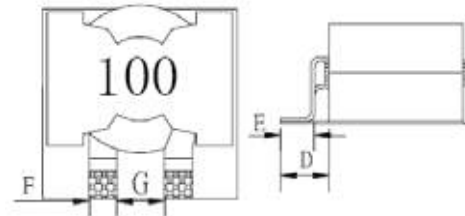
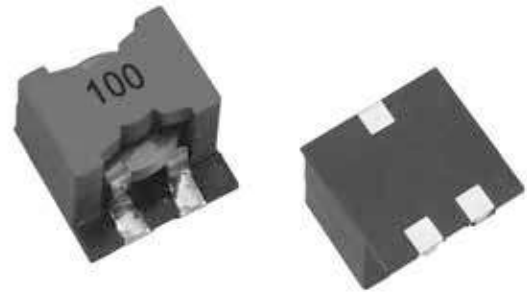
SMTPQ2614 SERIES

SHIELDED SMT POWER INDUCTORS

Applications :

- Desktop/server applications.
- Battery Power equipment.
- DC/DC converters.
- Power supplier, etc.

Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.
SMTPQ2614	27.9	26.9	15.9

Item	D	E	F	G
SMTPQ2614	6.9	3.8	4.0	6.1

Features :

- Clip Plated Type, Low Profile.
- Low DCR.
- High power, High saturation inductors.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10%(M:20%) lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max. $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).
- Operating temperature : -40°C to 105°C.

Product identification :

SMT PQ2614L - 100 M

(1) (2) (3) (4)

(1) Type: **Surface Mountable** Type.

(2) Style: Flat wire with **ER** core and **L** or **H** is used for a big Current type instead of PQ2614.

(3) Inductance : **100** for **10** uH.

(4) Inductance tolerance : **M**: $\pm 20\%$. **K**: $\pm 10\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C.



● **SMTPQ2614 series**

Part No.	Stamp	Inductance L (uH)	Test Freq. (0.1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTPQ2614L-1R5M	1R5	1.5	500 KHz	1.65 (1.5)	100.0	30.0
SMTPQ2614L-2R2M	2R2	2.2	500 KHz	1.65 (1.5)	82.0	30.0
SMTPQ2614L-3R3M	3R3	3.3	500 KHz	1.65 (1.5)	48.0	30.0
SMTPQ2614L-4R7M	4R7	4.7	500 KHz	1.65 (1.5)	33.0	30.0
SMTPQ2614L-6R8M	6R8	6.8	500 KHz	1.65 (1.5)	22.0	30.0
SMTPQ2614L-100K	100	10.0	500 KHz	1.65 (1.5)	13.0	30.0
SMTPQ2614L-150K	150	15.0	500 KHz	1.65 (1.5)	7.5	30.0
SMTPQ2614L-220K	220	22.0	500 KHz	1.65 (1.5)	4.5	30.0
SMTPQ2614L-330K	330	33.0	500 KHz	1.65 (1.5)	2.0	30.0

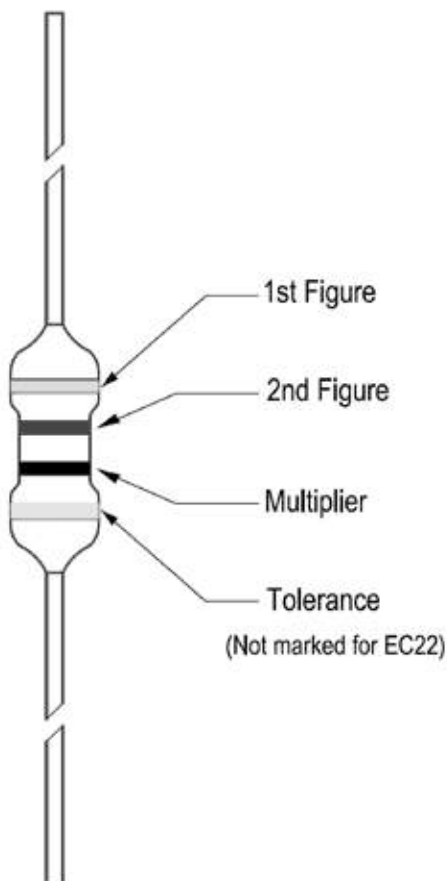
Part No.	Stamp	Inductance L (uH)	Test Freq. (1.0V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
SMTPQ2614H-2R2M	2R2	2.2	500 KHz	2.05 (1.86)	100.0	30.0
SMTPQ2614H-3R3M	3R3	3.3	500 KHz	2.05 (1.86)	62.0	30.0
SMTPQ2614H-4R7M	4R7	4.7	500 KHz	2.05 (1.86)	42.0	30.0
SMTPQ2614H-6R8M	6R8	6.8	500 KHz	2.05 (1.86)	30.0	30.0
SMTPQ2614H-100K	100	10.0	500 KHz	2.05 (1.86)	18.0	30.0
SMTPQ2614H-150K	150	15.0	500 KHz	2.05 (1.86)	11.5	30.0
SMTPQ2614H-220K	220	22.0	500 KHz	2.05 (1.86)	7.0	30.0
SMTPQ2614H-330K	330	33.0	500 KHz	2.05 (1.86)	4.0	30.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



In EC TYPE series color band are marked for identification. These bands indicate inductance value and tolerance. For values below 0.1uH, Gold indicates the decimal point and the next three bands indicate inductance value. There is no tolerance marked for values below 0.1uH.

In EC22 series due to limitation in size, only three color bands indicating inductance value is marked without decimal value and tolerance.



Color	Nominal inductance (uH)			
	First figure	Second figure	Multiplier	Tolerance
Black (Bk)	0		1	±20%
Brown (Bn)	1		10	-
Red (R)	2		100	-
Orange (O)	3		1000	-
Yellow (Y)	4		-	-
Green (Gn)	5		-	-
Blue (Be)	6		-	-
Violet (V)	7		-	-
Gray (Gy)	8		-	-
White (W)	9		-	-
Silver (S)	-		0.01	±10%
Gold (Gd)	-		0.10	±5%
Example	Green	Blue		
56uH			Black	Silver
±10%				



EC SERIES

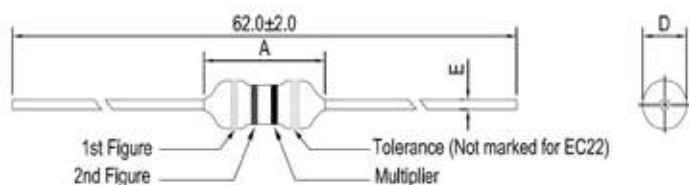
EPOXY COATED.

Applications :

- Televisions, personal computers.
- Radios, telephones.
- Others various electronic products.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max	D Max	E(±0.05)	Item	A Max	D Max	E(±0.05)
EC22	4.80	2.8	0.45	EC38	12.7	5.0	0.65
EC24	7.62	3.0	0.55	EC46	12.0	5.0	0.65
EC36	10.5	4.0	0.65	EC0410	15.0	5.0	0.65

Features :

- Conformal coated inductors.
- Treated with epoxy resin coating makes it high reliability.
- EC24/36/46 with special magnetic core structure, contribute to high Q and high SRF.
- EC38/0410 for power application.
- Tape and reel packaging for automatic insertion.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value.(Ta=20°C)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=20°C . (Ta=20°C).
- Operating temperature ranges: -20 to 80°C .
- Dielectric with standing voltage:250V AC r.m.s.

Product Identification :

EC 24 – 560 K – T5A

(1) (2) (3) (4) (5)

- (1) Type: **Epoxy Coated.**
- (2) Style: **According to core size.**
- (3) Inductance: Example: **560** for **56** uH.
- (4) Tolerance: **“M”**: ±20%; **“K”**: ±10%; **“J”**: ±5%.
- (5) Other information:

“T5,T2,T5A,TF1,TF2”represents
the Packing Method No code: Bulk,
“U, F” represents the shape.

Test equipments :

- L&Q: HP 4285A with HP 42851A(Freq.>75kHz).
- L&Q: HP4284A(Freq.<75kHz).
- L&Q: HP4291B(Freq.@50MHz)
- DCR: Milli-ohm meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at 25°C .



● **EC22W series**

Part No.	L (uH)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code		
							1st	2nd	3rd
EC22W-1R0K	1.0	35	25.2	150	0.8	270	Bn	Bk	Gd
EC22W-1R2K	1.2	40	7.96	110	0.9	260	Bn	R	Gd
EC22W-1R5K	1.5	40	7.96	80	1.0	250	Bn	Gn	Gd
EC22W-1R8K	1.8	40	7.96	60	1.1	240	Bn	Gy	Gd
EC22W-2R2K	2.2	40	7.96	45	1.2	230	R	R	Gd
EC22W-2R7K	2.7	40	7.96	40	1.3	220	R	V	Gd
EC22W-3R3K	3.3	40	7.96	38	1.4	210	O	O	Gd
EC22W-3R9K	3.9	40	7.96	36	1.5	200	O	W	Gd
EC22W-4R7K	4.7	40	7.96	32	1.7	190	Y	V	Gd
EC22W-5R6K	5.6	40	7.96	30	1.9	180	Gn	Be	Gd
EC22W-6R8K	6.8	40	7.96	28	2.0	175	Be	Gy	Gd
EC22W-8R2K	8.2	40	7.96	26	2.2	165	Gy	R	Gd
EC22W-100K	10	40	7.96	24	2.5	160	Bn	Bk	Bk
EC22W-120K	12	40	2.52	22	2.5	150	Bn	R	Bk
EC22W-150K	15	40	2.52	20	2.5	145	Bn	Gn	Bk
EC22W-180K	18	40	2.52	18	3.1	140	Bn	Gy	Bk
EC22W-220K	22	40	2.52	17	3.4	130	R	R	Bk
EC22W-270K	27	40	2.52	16	4.3	80	R	V	Bk
EC22W-330K	33	40	2.52	14	4.7	76	O	O	Bk
EC22W-390K	39	40	2.52	13	5.2	74	O	W	Bk
EC22W-470K	47	40	2.52	12	5.8	70	Y	V	Bk
EC22W-560K	56	40	2.52	11	6.4	68	Gn	Be	Bk
EC22W-680K	68	40	2.52	10	7.2	64	Be	Gy	Bk
EC22W-820K	82	40	2.52	9.5	11	46	Gy	R	Bk
EC22W-101K	100	40	2.52	9.0	12	44	Bn	Bk	Bn
EC22W-121K	120	40	0.796	8.0	13	42	Bn	R	Bn
EC22W-151K	150	40	0.796	6.0	16	39	Bn	Gn	Bn
EC22W-181k	180	40	0.796	5.5	18	37	Bn	Gy	Bn
EC22W-221k	220	40	0.796	4.5	20	35	R	R	Bn
EC22W-271k	270	30	0.796	3.5	20	25	R	V	Bn
EC22W-331K	330	30	0.796	3.0	20	25	O	O	Bn


● EC24 series

Part No.	L (uH)	Q Min.	L.Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC24-1R0K	1.0	65	25.2	180	0.12	700	Bn	Bk	Gd	S
EC24-1R2K	1.2	50	7.96	165	0.18	740	Bn	R	Gd	S
EC24-1R5K	1.5	50	7.96	150	0.20	700	Bn	Gn	Gd	S
EC24-1R8K	1.8	70	7.96	125	0.23	655	Bn	Gy	Gd	S
EC24-2R2K	2.2	50	7.96	110	0.25	630	R	R	Gd	S
EC24-2R7K	2.7	60	7.96	95	0.28	595	R	V	Gd	S
EC24-3R3K	3.3	60	7.96	75	0.30	575	O	O	Gd	S
EC24-3R9K	3.9	60	7.96	65	0.32	555	O	W	Gd	S
EC24-4R7K	4.7	50	7.96	50	0.35	530	Y	V	Gd	S
EC24-5R6K	5.6	50	7.96	40	0.40	500	Gn	Be	Gd	S
EC24-6R8K	6.8	50	7.96	30	0.45	470	Be	Gy	Gd	S
EC24-8R2K	8.2	50	7.96	28	0.55	425	Gy	R	Gd	S
EC24-100K	10	50	7.96	22	0.72	370	Bn	Bk	Bk	S
EC24-120K	12	50	2.52	20	0.80	350	Bn	R	Bk	S
EC24-150K	15	50	2.52	16	0.88	335	Bn	Gn	Bk	S
EC24-180K	18	50	2.52	15	1.00	315	Bn	Gy	Bk	S
EC24-220K	22	60	2.52	13	1.20	285	R	R	Bk	S
EC24-270K	27	60	2.52	11	1.35	270	R	V	Bk	S
EC24-330K	33	50	2.52	10	1.50	255	O	O	Bk	S
EC24-390K	39	50	2.52	9.5	1.70	240	O	W	Bk	S
EC24-470K	47	60	2.52	8.5	2.30	205	Y	V	Bk	S
EC24-560K	56	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
EC24-680K	68	60	2.52	6.5	2.90	185	Be	Gy	Bk	S
EC24-820K	82	55	2.52	6.0	3.20	175	Gy	R	Bk	S
EC24-101K	100	60	2.52	5.5	3.50	165	Bn	Bk	Bn	S
EC24-121K	120	75	0.796	5.4	3.80	160	Bn	R	Bn	S
EC24-151K	150	75	0.796	4.75	4.40	150	Bn	Gn	Bn	S
EC24-181K	180	75	0.796	4.35	5.00	140	Bn	Gy	Bn	S
EC24-221K	220	75	0.796	4.0	5.70	130	R	R	Bn	S
EC24-271K	270	70	0.796	3.7	6.50	120	R	V	Bn	S
EC24-331K	330	70	0.796	3.4	9.50	100	O	O	Bn	S
EC24-391K	390	70	0.796	2.8	10.5	95	O	W	Bn	S
EC24-471K	470	70	0.796	2.55	12.5	90	Y	V	Bn	S
EC24-561K	560	70	0.796	2.35	14.5	85	Gn	Be	Bn	S
EC24-681K	680	70	0.796	2.0	18.0	75	Be	Gy	Bn	S
EC24-821K	820	60	0.796	1.6	23.7	65	Gy	R	Bn	S
EC24-102K	1000	60	0.796	1.2	30.0	60	Bn	Bk	R	S



● **EC36 series**

Part No.	L (uH)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC36-1R0K	1.0	50	25.2	157	0.09	920	Bn	Bk	Gd	S
EC36-1R2K	1.2	50	7.96	144	0.10	880	Bn	R	Gd	S
EC36-1R5K	1.5	55	7.96	131	0.23	830	Bn	Gn	Gd	S
EC36-1R8K	1.8	60	7.96	121	0.25	790	Bn	Gy	Gd	S
EC36-2R2K	2.2	80	7.96	110	0.28	750	R	R	Gd	S
EC36-2R7K	2.7	85	7.96	100	0.30	720	R	V	Gd	S
EC36-3R3K	3.3	90	7.96	94	0.34	670	O	O	Gd	S
EC36-3R9K	3.9	90	7.96	86	0.37	640	O	W	Gd	S
EC36-4R7K	4.7	90	7.96	80	0.39	620	Y	V	Gd	S
EC36-5R6K	5.6	80	7.96	74	0.43	590	Gn	Be	Gd	S
EC36-6R8K	6.8	80	7.96	58	0.48	550	Be	Gy	Gd	S
EC36-8R2K	8.2	85	7.96	53	0.52	530	Gy	R	Gd	S
EC36-100K	10	85	7.96	45	0.58	500	Bn	Bk	Bk	S
EC36-120K	12	75	2.52	30	0.63	480	Bn	R	Bk	S
EC36-150K	15	75	2.52	20	0.72	460	Bn	Gn	Bk	S
EC36-180K	18	70	2.52	14	0.77	430	Bn	Gy	Bk	S
EC36-220K	22	65	2.52	9.9	0.84	410	R	R	Bk	S
EC36-270K	27	65	2.52	7.6	0.94	390	R	V	Bk	S
EC36-330K	33	55	2.52	6.3	1.03	370	O	O	Bk	S
EC36-390K	39	55	2.52	6.3	1.12	350	O	W	Bk	S
EC36-470K	47	45	2.52	6.3	1.22	340	Y	V	Bk	S
EC36-560K	56	45	2.52	6.2	1.34	320	Gn	Be	Bk	S
EC36-680K	68	40	2.52	5.7	1.47	305	Be	Gy	Bk	S
EC36-820K	82	35	2.52	5.3	1.62	290	Gy	R	Bk	S
EC36-101K	100	30	2.52	4.8	1.80	275	Bn	Bk	Bn	S
EC36-121K	120	70	0.796	3.8	3.70	185	Bn	R	Bn	S
EC36-151K	150	80	0.796	3.5	4.20	175	Bn	Gn	Bn	S
EC36-181K	180	80	0.796	3.3	4.60	165	Bn	Gy	Bn	S
EC36-221K	220	70	0.796	3.0	5.10	155	R	R	Bn	S
EC36-271K	270	70	0.796	2.8	5.80	145	R	V	Bn	S
EC36-331K	330	65	0.796	2.6	6.40	137	O	O	Bn	S
EC36-391K	390	65	0.796	2.4	7.00	133	O	W	Bn	S
EC36-471K	470	60	0.796	2.25	7.70	126	Y	V	Bn	S
EC36-561K	560	60	0.796	2.10	8.50	120	Gn	Be	Bn	S
EC36-681K	680	55	0.796	1.95	9.40	113	Be	Gy	Bn	S
EC36-821K	820	55	0.796	1.85	12.0	100	Gy	R	Bn	S
EC36-102K	1000	50	0.252	1.40	17.0	100	Bn	Bk	R	S



● **EC38 series**

Part No.	L (uH)	Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA)Max.	Color code			
							1st	2nd	3rd	4th
EC38-1R0M	1.0	7.96MH	190	0.018	3000	3300	Bn	Bk	Gd	Bk
EC38-1R2M	1.2	7.96MH	170	0.019	2700	3200	Bn	R	Gd	Bk
EC38-1R5M	1.5	7.96MH	160	0.020	2500	3100	Bn	Gn	Gd	Bk
EC38-1R8M	1.8	7.96MH	150	0.023	2100	2900	Bn	Gy	Gd	Bk
EC38-2R2M	2.2	7.96MH	130	0.031	2000	2600	R	R	Gd	Bk
EC38-2R7M	2.7	7.96MH	120	0.033	1900	2500	R	V	Gd	Bk
EC38-3R3M	3.3	7.96MH	110	0.054	1700	1900	O	O	Gd	Bk
EC38-3R9M	3.9	7.96MH	100	0.060	1500	1800	O	W	Gd	Bk
EC38-4R7K	4.7	7.96MH	86	0.068	1400	1700	Y	V	Gd	S
EC38-5R6K	5.6	7.96MH	64	0.074	1300	1600	Gn	Be	Gd	S
EC38-6R8K	6.8	7.96MH	44	0.080	1200	1600	Be	Gy	Gd	S
EC38-8R2K	8.2	7.96MH	32	0.087	1100	1500	Gy	R	Gd	S
EC38-100K	10	1kHz	25	0.095	970	1500	Bn	Bk	Bk	S
EC38-120K	12	1kHz	17	0.11	880	1400	Bn	R	Bk	S
EC38-150K	15	1kHz	13	0.15	790	1200	Bn	Gn	Bk	S
EC38-180K	18	1kHz	10	0.16	710	1100	Bn	Gy	Bk	S
EC38-220K	22	1kHz	8.40	0.19	640	1000	R	R	Bk	S
EC38-270K	27	1kHz	8.00	0.22	580	950	R	V	Bk	S
EC38-330K	33	1kHz	7.60	0.24	530	910	O	O	Bk	S
EC38-390K	39	1kHz	7.10	0.26	480	880	O	W	Bk	S
EC38-470K	47	1kHz	6.00	0.35	430	760	Y	V	Bk	S
EC38-560K	56	1kHz	5.80	0.47	400	650	Gn	Be	Bk	S
EC38-680K	68	1kHz	4.30	0.53	370	610	Be	Gy	Bk	S
EC38-820K	82	1kHz	4.10	0.60	330	580	Gy	R	Bk	S
EC38-101K	100	1kHz	3.90	0.67	300	550	Bn	Bk	Bn	S
EC38-121K	120	1kHz	3.60	0.90	270	470	Bn	R	Bn	S
EC38-151K	150	1kHz	3.20	1.20	250	410	Bn	Gn	Bn	S
EC38-181K	180	1kHz	2.80	1.40	220	380	Bn	Gy	Bn	S
EC38-221K	220	1kHz	2.30	1.90	200	320	R	R	Bn	S
EC38-271K	270	1kHz	2.10	2.10	180	310	R	V	Bn	S
EC38-331K	330	1kHz	1.90	2.40	170	290	O	O	Bn	S
EC38-391K	390	1kHz	1.70	3.00	150	260	O	W	Bn	S
EC38-471K	470	1kHz	1.40	3.40	140	240	Y	V	Bn	S
EC38-561K	560	1kHz	1.30	4.70	130	210	Gn	Be	Bn	S
EC38-681K	680	1kHz	1.20	6.40	110	180	Be	Gy	Bn	S
EC38-821K	820	1kHz	1.10	7.10	100	170	Gy	R	Bn	S
EC38-102K	1000	1kHz	1.00	7.90	95	160	Bn	Bk	R	S
EC38-122K	1200	1kHz	0.94	9.00	87	150	Bn	R	R	S
EC38-152K	1500	1kHz	0.76	12.0	78	130	Bn	Gn	R	S
EC38-182K	1800	1kHz	0.72	14.0	71	120	Bn	Gy	R	S
EC38-222K	2200	1kHz	0.64	19.0	64	100	R	R	R	S
EC38-272K	2700	1kHz	0.56	25.0	58	90	R	V	R	S
EC38-332K	3300	1kHz	0.53	29.0	52	83	O	O	R	S
EC38-392K	3900	1kHz	0.48	34.0	48	77	O	W	R	S
EC38-472K	4700	1kHz	0.45	37.0	44	74	Y	V	R	S
EC38-562K	5600	1kHz	0.40	50.0	40	63	Gn	Be	R	S
EC38-682K	6800	1kHz	0.36	58.0	36	59	Be	Gy	R	S
EC38-822K	8200	1kHz	0.29	68.0	33	54	Gy	R	R	S
EC38-103K	10000	1kHz	0.27	75.0	30	52	Bn	Bk	O	S



● **EC46 series**

Part No.	L @1kHz (mH)	Q Min.	Q Test Freq. KHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC46-122K	1.2	80	252	1.30	9	110	Bn	R	R	S
EC46-152K	1.5	80	252	1.20	10	100	Bn	Gn	R	S
EC46-182K	1.8	80	252	1.20	11	90	Bn	Gy	R	S
EC46-222K	2.2	80	252	1.10	14	80	R	R	R	S
EC46-272K	2.7	80	252	0.85	18	75	R	V	R	S
EC46-332K	3.3	80	252	0.74	22	65	O	O	R	S
EC46-392K	3.9	80	252	0.70	26	60	O	W	R	S
EC46-472K	4.7	80	252	0.66	30	55	Y	V	R	S
EC46-562K	5.6	70	252	0.64	34	50	Gn	Be	R	S
EC46-682K	6.8	70	252	0.58	45	45	Be	Gy	R	S
EC46-822K	8.2	50	252	0.50	60	40	Gy	R	R	S
EC46-103K	10	50	79.6	0.48	70	38	Bn	Bk	O	S
EC46-123K	12	50	79.6	0.46	82	35	Bn	R	O	S
EC46-153K	15	50	79.6	0.40	89	32	Bn	Gn	O	S
EC46-183K	18	40	79.6	0.37	140	28	Bn	Gy	O	S
EC46-223K	22	40	79.6	0.33	170	25	R	R	O	S
EC46-253K	25	40	79.6	0.28	185	24	R	Gn	O	S
EC46-273K	27	40	79.6	0.26	210	23	R	V	O	S
EC46-303K	30	40	79.6	0.25	240	22	O	Bk	O	S
EC46-333K	33	40	79.6	0.24	250	20	O	O	O	S



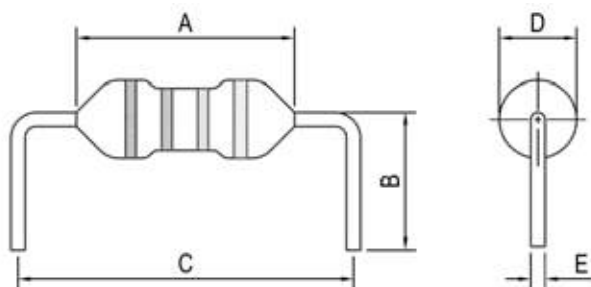
• EC0410 series

Part No.	L (uH)	Q Min.	L.Q TestFreq MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA) Max.	Color code			
								1st	2nd	3rd	4th
EC0410-1R0M	1.0	10	7.96	300	0.022	5600	3800	Bn	Bk	Gd	Bk
EC0410-1R2M	1.2	10	7.96	260	0.024	5500	3700	Bn	R	Gd	Bk
EC0410-1R5M	1.5	10	7.96	250	0.026	5000	3600	Bn	Gn	Gd	Bk
EC0410-1R8M	1.8	10	7.96	240	0.029	4700	3100	Bn	Gy	Gd	Bk
EC0410-2R2M	2.2	10	7.96	220	0.031	4500	2900	R	R	Gd	Bk
EC0410-2R7M	2.7	10	7.96	195	0.034	4000	2700	R	V	Gd	Bk
EC0410-3R3M	3.3	10	7.96	155	0.038	3400	2600	O	O	Gd	Bk
EC0410-3R9M	3.9	10	7.96	115	0.040	3100	2500	O	W	Gd	Bk
EC0410-4R7K	4.7	10	7.96	85	0.044	2800	2400	Y	V	Gd	S
EC0410-5R6K	5.6	10	7.96	55	0.048	2600	2100	Gn	Be	Gd	S
EC0410-6R8K	6.8	10	7.96	50	0.051	2400	2000	Be	Gy	Gd	S
EC0410-8R2K	8.2	10	7.96	38	0.056	2200	1950	Gy	R	Gd	S
EC0410-100K	10	10	7.96	24	0.062	2100	1900	Bn	Bk	Bk	S
EC0410-120K	12	10	2.52	18	0.076	1800	1800	Bn	R	Bk	S
EC0410-150K	15	10	2.52	16	0.088	1700	1700	Bn	Gn	Bk	S
EC0410-180K	18	10	2.52	15	0.11	1600	1600	Bn	Gy	Bk	S
EC0410-220K	22	10	2.52	14	0.13	1400	1550	R	R	Bk	S
EC0410-270K	27	10	2.52	13	0.14	1300	1300	R	V	Bk	S
EC0410-330K	33	10	2.52	11	0.20	1200	1200	O	O	Bk	S
EC0410-390K	39	10	2.52	10	0.22	1100	1000	O	W	Bk	S
EC0410-430K	43	10	2.52	9.5	0.28	1000	950	Y	O	Bk	S
EC0410-470K	47	10	2.52	9.5	0.28	1000	950	Y	V	Bk	S
EC0410-560K	56	10	2.52	8.0	0.30	900	900	Gn	Be	Bk	S
EC0410-680K	68	10	2.52	7.5	0.34	800	800	Be	Gy	Bk	S
EC0410-820K	82	10	2.52	7.0	0.385	700	750	Gy	R	Bk	S
EC0410-101K	100	10	2.52	6.5	0.480	700	700	Bn	Bk	Bn	S
EC0410-121K	120	15	0.796	5.0	0.595	600	600	Bn	R	Bn	S
EC0410-151K	150	15	0.796	4.5	0.90	550	500	Bn	Gn	Bn	S
EC0410-181K	180	15	0.796	4.0	1.10	500	400	Bn	Gy	Bn	S
EC0410-221K	220	15	0.796	3.8	1.25	440	390	R	R	Bn	S
EC0410-271K	270	15	0.796	3.5	1.85	420	330	R	V	Bn	S
EC0410-331K	330	15	0.796	3.0	2.10	380	310	O	O	Bn	S
EC0410-391K	390	15	0.796	2.8	2.28	340	300	O	W	Bn	S
EC0410-471K	470	15	0.796	2.5	3.22	320	280	Y	V	Bn	S
EC0410-561K	560	15	0.796	2.2	3.85	290	270	Gn	Be	Bn	S
EC0410-681K	680	15	0.796	2.1	4.0	260	240	Be	Gy	Bn	S
EC0410-821K	820	15	0.796	2.0	5.0	250	230	Gy	R	Bn	S
EC0410-102K	1000	15	0.796	1.8	5.8	240	190	Bn	Bk	R	S
EC0410-122K	1200	15	0.252	1.6	7.1	200	180	Bn	R	R	S
EC0410-152K	1500	15	0.252	1.5	7.8	190	170	Bn	Gn	R	S
EC0410-472K	4700	15	0.252	0.7	30	120	100	Y	V	R	S

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



U Shape and Size : (unit: mm)



Product Identification :

EC36-□□□-U□X□

(1) (2) (3)

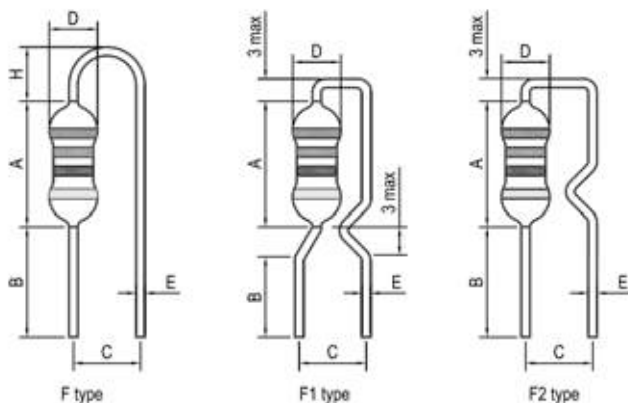
(1) Inductance and tolerance.

(2) Lead pitch (size C).

(3) Lead length (size B).

Type	A	B	C	D	E
EC22W-□□□-U□X□	4.8 Max	4.0 Min	6 ~ 15	2.8 Max	0.45
EC24-□□□-U□X□	8.0 Max	4.0 Min	10 ~ 20	3.0 Max	0.55
EC36-□□□-U□X□	11.0 Max	4.0 Min	12.5 ~ 20	4.0 Max	0.65
EC38-□□□-U□X□	12.7 Max	4.0 Min	15 ~ 20	5.0 Max	0.65
EC46-□□□-U□X□	12.0 Max	4.0 Min	12.5 ~ 20	5.0 Max	0.65
EC0410-□□□-U□X□	15.0 Max	4.0 Min	17.5 ~ 25	5.0 Max	0.65

F Shape and Size : (unit: mm)



Product Identification :

EC36 -□□□ - F□

(1) (2)

(1) Inductance and tolerance.

(2) Forming shape.

Type	A	B	C	D	E	H
EC22W-□□□-F / F1 / F2	4.8 Max	4.0 Min	5.0 Ref	2.8 Max	0.45	3.0 Max
EC24-□□□-F / F1 / F2	8.0 Max	4.0 Min	5.0 Ref	3.0 Max	0.55	3.0 Max
EC36-□□□-F / F2	11.0 Max	4.0 Min	5.0 Ref	4.0 Max	0.65	4.0 Max
EC38-□□□-F / F2	12.7 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	4.0 Max
EC46-□□□-F / F2	12.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	4.0 Max
EC0410-□□□-F / F2	15.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	5.0 Max



FC SERIES

BASIC MODEL HIGH CURRENT CHOKE

Shape and Dimensions (Dimensions are in mm) :



Fig1:standard type

Fig2

Item	A Max.	D Max.	C typ.	C1 typ.
FC0205	6.0	3.5	3.5	3.5
FC0310	11.0	5.0	7.5	5.0
FC0415	16.0	5.5	12.5	6.0
FC0520	21.0	7.0	15.0	8.0
FC0630	31.0	9.5	25.0	10.0

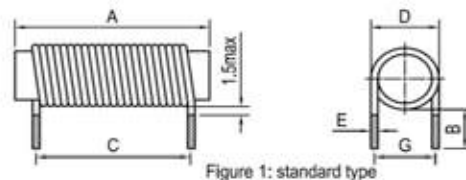


Figure 1: standard type

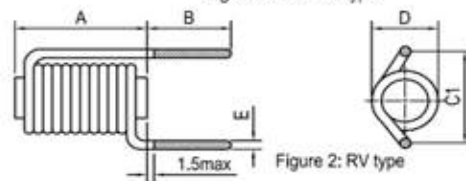


Figure 2: RV type

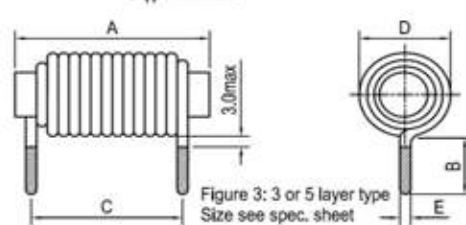


Figure 3: 3 or 5 layer type
Size see spec. sheet

Applications :

- Power supplies .
- Power amplifiers .
- Noise filter for Switching regulators .
- SCR and Triac circuits .

Features :

- High saturation current .
- General purpose inductors .
- Low cost design .
- Tin plated leads .
- Varnish coated or UL tube.

Characteristics :

- Rated Current : It is either the inductance is 20% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=25^{\circ}\text{C}$ ($T_a=20$)
Whichever lower.
- Operating temperature : -20°C to 80°C .

Product Identification :

FC 0520 - 100 K - 8RV - UL

(1) (2) (3) (4) (5) (6)

- (1) Type : **Basic model high current choke** .
- (2) Style : Core **D=5 mm** **L=20 mm** .
- (3) Inductance : Example : **100** for **10 uH**
- (4) Inductance tolerance : **K** : $\pm 10\%$; **M** : $\pm 20\%$.
- (5) Shape: **8RV** indicate PIN's length is 8mm and **Right wound** and **Vertical structure**; No code is normal type.
- (6) Sleeve:"**UL**": UL Tube,black; No code: no sleeve.

Test equipment and test steup :

L: LCR meter, @1kHz/0.25V, 25°C .

DCR: Milli-ohm meter.

- Electrical specifications at 25°C .



● **FC0205 / 0310 / 0415 / 0520 / 0630 series**

Part No.	L @1KHz (uH)	DCR (Ω) Max	Rated Current (A) Max.	SRF (MHz) Min.	Wire Size (mm)	No. of Turns Ref.	Net Weight g/pcs
FC0205-1R0K	1.0	0.040	0.56	200	0.30	11.5	0.150
FC0205-1R2K	1.2	0.040	0.56	180	0.30	12.5	0.165
FC0310-1R8K	1.8	0.026	1.90	160	0.55	11.5	0.700
FC0310-2R2K	2.2	0.028	1.57	150	0.50	13.5	0.714
FC0310-2R7K	2.7	0.030	1.57	140	0.50	15.5	0.729
FC0310-3R3K	3.3	0.035	1.27	135	0.45	17.5	0.686
FC0310-3R9K	3.9	0.050	1.00	110	0.40	18.5	0.634
FC0310-4R7K	4.7	0.070	0.76	90	0.35	19.5	0.575

Part No.	L @1KHz (uH)	DCR (Ω) Max	Reatd Current (A)Max.	SRF (MHz) Min.	Wire Size (mm)	No. of Turns Ref.	Net Weight g/pcs
FC0415-4R7K	4.7	0.024	2.26	90	0.60	17.5	1.60
FC0415-5R6K	5.6	0.030	1.90	80	0.55	18.5	1.40
FC0415-6R8K	6.8	0.040	1.57	80	0.50	18.5	1.40
FC0415-8R2K	8.2	0.060	1.27	80	0.45	21.5	1.32
FC0415-100K	10	0.080	1.00	70	0.40	24.5	1.20
FC0520-100K	10	0.040	2.65	60	0.65	22.5	3.10
FC0520-120K	12	0.044	2.26	55	0.60	23.5	2.98
FC0520-150K	15	0.060	1.90	45	0.55	27.5	2.97
FC0520-180K	18	0.080	1.57	40	0.50	29.5	2.87
FC0520-220K	22	0.100	1.27	38	0.45	32.5	2.73
FC0520-270K	27	0.150	1.00	36	0.40	36.5	2.63
FC0630-4R7K	4.7	0.005	16.08	85	1.60	12.5	10.2
FC0630-5R6K	5.6	0.005	16.08	80	1.60	14.5	11.0
FC0630-6R8K	6.8	0.008	10.61	75	1.30	15.5	8.68
FC0630-8R2K	8.2	0.009	9.04	67	1.20	16.5	8.35
FC0630-100K	10	0.010	9.04	64	1.20	19.5	8.80
FC0630-120K	12	0.018	6.28	57	1.00	20.5	7.43
FC0630-150K	15	0.023	5.08	53	0.90	23.5	7.23
FC0630-180K	18	0.030	4.02	49	0.80	24.5	6.70
FC0630-220K	22	0.045	3.07	44	0.70	27.5	6.24
FC0630-270K	27	0.050	3.07	42	0.70	31.5	6.40
FC0630-330K	33	0.060	2.65	36	0.65	35.5	6.53
FC0630-390K	39	0.080	2.26	34	0.60	40.5	6.23
FC0630-470K	47	0.110	1.90	32	0.55	44.5	6.22
FC0630-560K	56	0.140	1.57	30	0.50	46.5	5.80



● **FC series**

Part No.	L @1KHz (uH)	DCR (Ω) Max	SRF (MHz) Min.	Rated Current (A)Max.	Dimensions (mm)			
					A Max.	D Max.	C ±2.0	E ±0.10
FC0820-5R0N- 3A	5.0	0.015	40	3.0	22.23	15.88	12.70	1.0
FC1025- 100N- 3A	10	0.081	25	3.0	28.58	15.88	17.45	1.0
FC0820-270N- 3A	27	0.035	8	3.0	22.23	20.62	11.10	1.0
FC0525-500N- 3A	50	0.050	5	3.0	28.58	20.62	19.05	1.0
FC0828- 101N- 3A	100	0.065	2.5	3.0	28.58	20.62	23.80	1.0
FC0832- 151N- 3A	150	0.075	2	3.0	34.93	20.62	26.97	1.0
FC0840-251N- 3A	250	0.090	1	3.0	41.28	20.62	33.32	1.0
FC1020- 5R0N -5A	5.0	0.012	30	5.0	22.23	16.62	19.05	1.3
FC0828- 100N- 5A	10	0.015	20	5.0	28.53	16.62	25.40	1.3
FC0820-270N- 5A	27	0.025	7	5.0	22.23	22.23	14.27	1.3
FC1025-500N- 5A	50	0.030	4	5.0	28.53	22.23	19.05	1.3
FC0828-680N- 5A	68	0.035	3.5	5.0	28.53	22.23	22.23	1.3
FC1032- 101N- 5A	100	0.050	2.5	5.0	34.93	22.23	25.40	1.3
FC1040- 151N- 5A	150	0.060	2	5.0	41.28	22.23	31.75	1.3
FC1025-5R0N-10A	5.0	0.010	30	10	28.53	17.45	20.62	1.6
FC1032- 100N- 10A	10	0.012	20	10	34.93	17.45	30.94	1.6
FC1825-270N- 10A	27	0.018	7	10	28.53	23.80	17.45	1.6
FC0832-500N- 10A	50	0.025	4	10	34.93	23.80	23.80	1.6
FC1032-680N- 10A	68	0.027	3.5	10	34.93	23.80	28.53	1.6
FC1040- 101N- 10A	100	0.030	2.5	10	41.28	23.80	33.32	1.6
FC1032-5R0N- 15A	5.0	0.008	30	15	34.93	18.42	23.80	2.0
FC1040- 100N- 15A	10	0.010	20	15	42.85	18.42	38.10	2.0
FC0828-270N- 15A	27	0.015	7	15	34.93	25.40	23.80	2.0
FC1035-500N- 15A	50	0.020	4	15	41.28	25.40	28.53	2.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



PK SERIES

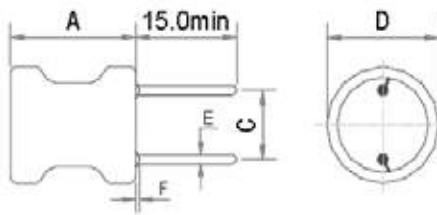
PEAKING COILS.

Applications:

- TVs and Audio equipment.
- Telecommunication devices.
- Personal computer.
- Switching Power Supply.
- Other noise filter.



Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	C	D Max.	E±0.05
PK0406	8.0	2.0±0.5	5.5	0.55
PK0608	11.0	2.5±0.5	7.5	0.65
PK0707	9.5	5.0±1.0	8.5	0.65
PK0807	9.5	5.0±1.0	10.0	0.65
PK0810	13.0	5.0±1.0	10.0	0.65

Item	A Max.	C	D Max.	E±0.05
PK1010	13.0	5.0±1.0	12.0	0.80
PK1012	15.0	6.0±1.0	12.0	0.80
PK1018	21.0	6.0±1.0	12.0	0.80
PK1213	16.0	7.5±1.0	14.0	0.80

Features :

- Low cost.
- Wide range of inductance.
- Small mounting space required.
- 0406 type with excellent characteristics for high Q.
- The other types with low DCR, high current, best for the power supply line.
- Tape packaging for auto-insertion.

Characteristics :

- Rated Current : It is either the inductance is 10% lower its than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20$) Whichever lower.
- Operating temperature : -20 to 85°C .

Product Identification :

PK 0608 – 503 K – UL – TF

(1) (2) (3) (4) (5) (6)

- (1) Type: **Peaking coils.**
- (2) Style : Core size, **OD=6 mm , L=8 mm.**
- (3) Inductance: **“503”** for **50 mH.**
- (4) Tolerance: **“J”**: $\pm 5\%$; **“K”**: $\pm 10\%$; **“M”**: $\pm 20\%$.
- (5) Sleeve: UL tube, Black, 125°C ; No code: NO sleeve
- (6) Taping Mode: **TF** Taping; No code: bulk

Test equipments :

- L&Q: HP 4285A or HP 4284A.
- DCR: Chroma16502 Milliohm Meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at 25°C .


• PK0406 series

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0406-1R0M-□□	1.0	100	7.96MHz	120	0.035	2000
PK0406-1R2M-□□	1.2	100	7.96MHz	120	0.058	1950
PK0406-1R5M-□□	1.5	100	7.96MHz	120	0.075	1900
PK0406-1R8M-□□	1.8	100	7.96MHz	120	0.110	1800
PK0406-2R2M-□□	2.2	100	7.96MHz	100	0.120	1750
PK0406-2R7M-□□	2.7	100	7.96MHz	80	0.125	1680
PK0406-3R3M-□□	3.3	100	7.96MHz	75	0.130	1500
PK0406-3R9K-□□	3.9	100	7.96MHz	70	0.135	1450
PK0406-4R7K-□□	4.7	100	7.96MHz	50	0.140	1320
PK0406-5R6K-□□	5.6	100	7.96MHz	45	0.145	1230
PK0406-6R8K-□□	6.8	100	7.96MHz	30	0.15	1150
PK0406-8R2K-□□	8.2	100	7.96MHz	22	0.16	1100
PK0406-100K-□□	10	80	2.52MHz	20	0.23	1000
PK0406-120K-□□	12	80	2.52MHz	17	0.24	970
PK0406-150K-□□	15	80	2.52MHz	16	0.25	920
PK0406-180K-□□	18	80	2.52MHz	12	0.33	860
PK0406-220K-□□	22	80	2.52MHz	10	0.45	800
PK0406-270K-□□	27	80	2.52MHz	9.5	0.50	710
PK0406-330K-□□	33	80	2.52MHz	8.7	0.70	660
PK0406-390K-□□	39	70	2.52MHz	8.2	0.74	600
PK0406-470K-□□	47	70	2.52MHz	7.8	0.76	550
PK0406-560K-□□	56	50	2.52MHz	7.6	0.80	500
PK0406-680K-□□	68	50	2.52MHz	6.8	0.90	470
PK0406-820K-□□	82	50	2.52MHz	6.0	0.95	430
PK0406-101K-□□	100	45	796kHz	6.0	1.0	400
PK0406-121K-□□	120	45	796kHz	5.5	1.1	370
PK0406-151K-□□	150	65	796kHz	4.2	1.3	350
PK0406-181k-□□	180	65	796kHz	3.6	1.5	320
PK0406-221k-□□	220	65	796kHz	2.8	1.8	300
PK0406-271k-□□	270	50	796kHz	2.4	1.9	275
PK0406-331K-□□	330	50	796kHz	2.2	2.2	250
PK0406-391K-□□	390	50	796kHz	2.0	2.7	220
PK0406-471K-□□	470	50	796kHz	1.7	3.6	200
PK0406-561K-□□	560	50	796kHz	1.5	4.2	190
PK0406-681K-□□	680	50	796kHz	1.3	4.6	170
PK0406-821K-□□	820	50	796kHz	1.1	5.7	155
PK0406-102K-□□	1000	90	252kHz	1.0	6.7	150
PK0406-122K-□□	1200	90	252kHz	0.9	8.2	140
PK0406-152K-□□	1500	80	252kHz	0.8	13	120
PK0406-182K-□□	1800	80	252kHz	0.8	15	110
PK0406-222K-□□	2200	80	252kHz	0.8	17	100
PK0406-272K-□□	2700	80	252kHz	0.8	19	90
PK0406-332K-□□	3300	70	252kHz	0.7	26	83
PK0406-392K-□□	3900	70	252kHz	0.65	30	76
PK0406-472K-□□	4700	65	252kHz		45	70
PK0406-562K-□□	5600	65	252kHz		48	62
PK0406-682K-□□	6800	65	252kHz		56	56
PK0406-822K-□□	8200	65	252kHz		62	52
PK0406-103K-□□	10000	45	79.6kHz		72	47
PK0406-153K-□□	15000	45	79.6kHz		120	35
PK0406-223K-□□	22000	45	79.6kHz		160	24
PK0406-253K-□□	25000	45	79.6kHz		180	20



● **PK0608 series**

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0608-3R3K-□□	3.3	20	7.96MHz	0.016	3500
PK0608-4R7K-□□	4.7	20	7.96MHz	0.020	3000
PK0608-6R8K-□□	6.8	20	7.96MHz	0.022	2500
PK0608-100K-□□	10	30	2.52MHz	0.039	2000
PK0608-150K-□□	15	30	2.52MHz	0.045	1700
PK0608-220K-□□	22	30	2.52MHz	0.062	1400
PK0608-330K-□□	33	30	2.52MHz	0.10	1100
PK0608-470K-□□	47	30	2.52MHz	0.15	950
PK0608-680K-□□	68	30	2.52MHz	0.22	800
PK0608-101K-□□	100	20	796kHz	0.35	650
PK0608-151K-□□	150	20	796kHz	0.43	540
PK0608-221K-□□	220	20	796kHz	0.90	440
PK0608-331K-□□	330	20	796kHz	1.50	360
PK0608-471K-□□	470	20	796kHz	1.80	300
PK0608-681K-□□	680	20	796kHz	2.50	250
PK0608-102K-□□	1000	100	252kHz	3.20	200
PK0608-122K-□□	1200	70	252kHz	3.5	180
PK0608-152K-□□	1500	70	252kHz	4.5	170
PK0608-182K-□□	1800	70	252kHz	5.0	155
PK0608-222K-□□	2200	70	252kHz	6.8	140
PK0608-272K-□□	2700	70	252kHz	7.2	125
PK0608-332K-□□	3300	70	252kHz	10.5	115
PK0608-392K-□□	3900	70	252kHz	11.7	105
PK0608-472K-□□	4700	70	252kHz	13.6	95
PK0608-562K-□□	5600	70	252kHz	16.6	85
PK0608-682K-□□	6800	70	252kHz	19.6	80
PK0608-822K-□□	8200	70	252kHz	25.2	70
PK0608-103K-□□	10000	70	79.6kHz	29.5	65
PK0608-123K-□□	12000	50	79.6kHz	33.8	60
PK0608-153K-□□	15000	50	79.6kHz	45.4	55
PK0608-183K-□□	18000	50	79.6kHz	50.4	50
PK0608-223K-□□	22000	50	79.6kHz	80.0	45
PK0608-303K-□□	30000	50	79.6kHz	91.5	40
PK0608-333K-□□	33000	50	79.6kHz	98.5	35
PK0608-393K-□□	39000	50	79.6kHz	140	32
PK0608-473K-□□	47000	50	79.6kHz	160	30
PK0608-503K-□□	50000	50	79.6kHz	170	29
PK0608-563K-□□	56000	50	79.6kHz	250	28
PK0608-683K-□□	68000	50	79.6kHz	282	25
PK0608-823K-□□	82000	50	79.6kHz	312	23
PK0608-104K-□□	100000	30	25.2kHz	380	20
PK0608-124K-□□	120000	30	25.2kHz	430	18
PK0608-154K-□□	150000	30	25.2kHz	520	16



● **PK0707 / 0807 series**

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK0707-1R0M-□□	1.0	10	7.96MHz	70	0.006	6.6	5.0
PK0707-1R5M-□□	1.5	10	7.96MHz	56	0.008	5.4	4.3
PK0707-2R2M-□□	2.2	10	7.96MHz	45	0.011	4.0	3.7
PK0707-3R3M-□□	3.3	10	7.96MHz	36	0.018	3.6	2.9
PK0707-4R7M-□□	4.7	10	7.96MHz	29	0.022	3.1	2.6
PK0707-6R8M-□□	6.8	10	7.96MHz	24	0.028	2.5	2.3
PK0707-100K-□□	10	20	2.52MHz	19	0.043	2.1	1.9
PK0707-150K-□□	15	20	2.52MHz	15	0.056	1.7	1.6
PK0707-220K-□□	22	20	2.52MHz	12	0.086	1.4	1.3
PK0707-330K-□□	33	20	2.52MHz	9.4	0.14	1.1	1.0
PK0707-470K-□□	47	20	2.52MHz	7.6	0.17	0.96	0.94
PK0707-680K-□□	68	20	2.52MHz	6.2	0.28	0.79	0.73
PK0707-101K-□□	100	20	796KHz	5.0	0.33	0.66	0.67
PK0707-151K-□□	150	20	796KHz	4.0	0.56	0.53	0.52
PK0707-221K-□□	220	20	796KHz	3.2	0.72	0.44	0.46
PK0707-331K-□□	330	20	796KHz	2.5	1.10	0.36	0.37
PK0707-471K-□□	470	20	796KHz	2.0	1.70	0.30	0.30
PK0707-681K-□□	680	20	796KHz	1.7	2.30	0.25	0.26
PK0707-102K-□□	1000	70	252KHz	1.3	4.30	0.20	0.19
PK0707-152K-□□	1500	50	252KHz	1.3	5.00	0.17	0.16
PK0807-2R2M-□□	2.2	10	7.96MHz	60	0.011	5.5	4.0
PK0807-3R3M-□□	3.3	10	7.96MHz	38	0.013	3.8	3.4
PK0807-4R7M-□□	4.7	10	7.96MHz	30	0.017	3.7	3.0
PK0807-6R8M-□□	6.8	10	7.96MHz	24	0.023	2.8	2.6
PK0807-100K-□□	10	20	2.52MHz	19	0.031	2.5	2.2
PK0807-150K-□□	15	20	2.52MHz	15	0.042	2.0	1.9
PK0807-220K-□□	22	20	2.52MHz	12	0.070	1.6	1.5
PK0807-330K-□□	33	20	2.52MHz	10	0.092	1.3	1.2
PK0807-470K-□□	47	20	2.52MHz	8.2	0.130	1.1	1.0
PK0807-680K-□□	68	20	2.52MHz	6.6	0.160	0.91	0.97
PK0807-101K-□□	100	15	796KHz	5.4	0.230	0.75	0.81
PK0807-151K-□□	150	15	796KHz	4.3	0.400	0.61	0.61
PK0807-221K-□□	220	15	796KHz	3.5	0.530	0.50	0.53
PK0807-331K-□□	330	15	796KHz	2.8	0.780	0.41	0.44
PK0807-471K-□□	470	10	796KHz	2.3	1.0	0.34	0.39
PK0807-681K-□□	680	10	796KHz	1.9	1.5	0.28	0.32
PK0807-102K-□□	1000	20	252KHz	1.5	2.2	0.23	0.26
PK0807-152K-□□	1500	30	252KHz	1.2	3.5	0.18	0.21

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.
 Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.



• **PK0810 TYPE**

Part No.	L @1kHz (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Ref.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0810-3R3M-□□	3.3	30	7.96MHz	65	0.012	5000
PK0810-3R9K-□□	3.9	30	7.96MHz	55	0.014	4600
PK0810-4R7K-□□	4.7	30	7.96MHz	45	0.016	4300
PK0810-5R6K-□□	5.6	30	7.96MHz	38	0.020	3900
PK0810-6R8K-□□	6.8	30	7.96MHz	27	0.022	3700
PK0810-8R2K-□□	8.2	30	7.96MHz	21	0.024	3500
PK0810-100K-□□	10	50	2.52MHz	17	0.025	3200
PK0810-120K-□□	12	50	2.52MHz	15	0.027	3000
PK0810-150K-□□	15	50	2.52MHz	13	0.033	2800
PK0810-180K-□□	18	50	2.52MHz	12	0.039	2600
PK0810-220K-□□	22	50	2.52MHz	11	0.047	2400
PK0810-270K-□□	27	50	2.52MHz	10	0.052	2100
PK0810-330K-□□	33	50	2.52MHz	8.5	0.075	1900
PK0810-390K-□□	39	40	2.52MHz	7.7	0.082	1700
PK0810-470K-□□	47	40	2.52MHz	6.7	0.10	1500
PK0810-560K-□□	56	40	2.52MHz	6.4	0.15	1300
PK0810-680K-□□	68	30	2.52MHz	5.8	0.18	1200
PK0810-820K-□□	82	30	2.52MHz	5.2	0.20	1100
PK0810-101K-□□	100	30	796kHz	4.4	0.20	900
PK0810-121K-□□	120	30	796kHz	4.2	0.22	800
PK0810-151K-□□	150	30	796kHz	3.7	0.24	720
PK0810-181K-□□	180	30	796kHz	3.5	0.28	650
PK0810-221K-□□	220	20	796kHz	3.3	0.35	600
PK0810-271K-□□	270	20	796kHz	2.9	0.40	550
PK0810-331K-□□	330	20	796kHz	2.6	0.47	500
PK0810-391K-□□	390	20	796kHz	2.4	0.68	460
PK0810-471K-□□	470	20	796kHz	2.2	0.80	420
PK0810-561K-□□	560	20	796kHz	2.0	1.0	380
PK0810-681K-□□	680	20	796kHz	1.8	1.2	350
PK0810-821K-□□	820	20	796kHz	1.7	1.5	310
PK0810-102K-□□	1000	40	252kHz	1.5	1.8	280
PK0810-122K-□□	1200	40	252kHz	1.4	2.0	250
PK0810-152K-□□	1500	40	252kHz	1.3	2.4	230
PK0810-182K-□□	1800	40	252kHz	1.1	2.8	210
PK0810-222K-□□	2200	40	252kHz	1.0	3.3	190
PK0810-272K-□□	2700	40	252kHz	0.88	5.0	170
PK0810-332K-□□	3300	40	252kHz	0.78	5.6	150
PK0810-392K-□□	3900	40	252kHz	0.72	6.2	140
PK0810-472K-□□	4700	40	252kHz	0.65	7.0	130
PK0810-562K-□□	5600	40	252kHz	0.58	9.1	120
PK0810-682K-□□	6800	40	252kHz	0.55	10	110
PK0810-822K-□□	8200	20	252kHz	0.50	15	100
PK0810-103K-□□	10000	20	79.6kHz	0.42	24	90
PK0810-473K-□□	47000	60	79.6kHz	0.20	80	40
PK0810-104K-□□	100000	20	79.6kHz	0.14	180	28



● **PK1010 / 1012 series**

Part No.	L @1kHz (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1010-3R3M-□□	3.3	10	7.96MHz	36	0.010	8.8	5.9
PK1010-4R7M-□□	4.7	10	7.96MHz	28	0.015	7.2	4.8
PK1010-6R8M-□□	6.8	10	7.96MHz	18	0.016	6.1	4.6
PK1010-100M-□□	10	20	2.52MHz	16	0.025	5.0	3.7
PK1010-150M-□□	15	20	2.52MHz	12	0.029	4.2	3.4
PK1010-220K-□□	22	20	2.52MHz	9.5	0.040	3.4	2.9
PK1010-330K-□□	33	30	2.52MHz	7.0	0.062	2.8	2.3
PK1010-470K-□□	47	30	2.52MHz	5.8	0.075	2.3	2.1
PK1010-680K-□□	68	20	2.52MHz	4.7	0.13	1.9	1.6
PK1010-101K-□□	100	20	796kHz	3.8	0.16	1.6	1.4
PK1010-151K-□□	150	20	796kHz	3.1	0.26	1.3	1.1
PK1010-221K-□□	220	20	796kHz	2.5	0.33	1.1	1.0
PK1010-331K-□□	330	20	796kHz	2.0	0.52	0.88	0.82
PK1010-471K-□□	470	10	796kHz	1.6	0.66	0.75	0.72
PK1010-681K-□□	680	10	796kHz	1.3	1.1	0.61	0.56
PK1010-102K-□□	1000	20	252kHz	1.1	1.4	0.51	0.50
PK1010-152K-□□	1500	30	252kHz	0.82	2.4	0.43	0.38
PK1010-222K-□□	2200	20	252kHz	0.76	3.2	0.35	0.33
PK1010-332K-□□	3300	30	252kHz	0.64	4.9	0.28	0.26
PK1010-472K-□□	4700	30	252kHz	0.54	7.6	0.24	0.21
PK1010-682K-□□	6800	30	252kHz	0.45	9.8	0.20	0.18
PK1010-103K-□□	10000	30	79.6kHz	0.38	18	0.17	0.14
PK1010-153K-□□	15000	50	79.6kHz	0.29	24	0.13	0.12
PK1012-103K-□□	10000	100	79.6kHz	0.35	12	0.18	0.17
PK1012-123K-□□	12000	100	79.6kHz	0.31	13	0.16	0.16
PK1012-153K-□□	15000	100	79.6kHz	0.28	18	0.14	0.14
PK1012-183K-□□	18000	80	79.6kHz	0.26	25	0.13	0.12
PK1012-223K-□□	22000	80	79.6kHz	0.22	30	0.12	0.11
PK1012-273K-□□	27000	80	79.6kHz	0.20	35	0.11	0.10
PK1012-333K-□□	33000	60	79.6kHz	0.19	40	0.10	0.090
PK1012-393K-□□	39000	60	79.6kHz	0.17	50	0.090	0.080
PK1012-473K-□□	47000	60	79.6kHz	0.15	50	0.080	0.075
PK1012-563K-□□	56000	40	79.6kHz	0.13	65	0.075	0.070
PK1012-683K-□□	68000	40	79.6kHz	0.12	70	0.070	0.065
PK1012-823K-□□	82000	30	79.6kHz	0.10	100	0.060	0.055
PK1012-104K-□□	100000	30	79.6kHz	0.10	135	0.055	0.045

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.



● **PK1018 series**

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1018-4R7K-□□	4.7	0.008	10.0	6.0
PK1018-6R8K-□□	6.8	0.011	8.0	5.5
PK1018-100K-□□	10	0.017	7.0	4.5
PK1018-150K-□□	15	0.022	5.5	4.0
PK1018-220K-□□	22	0.026	4.5	3.7
PK1018-330K-□□	33	0.032	3.8	3.3
PK1018-470K-□□	47	0.035	3.2	3.0
PK1018-680K-□□	68	0.047	2.6	2.6
PK1018-101K-□□	100	0.090	2.2	2.0
PK1018-151K-□□	150	0.129	1.8	1.6
PK1018-221K-□□	220	0.162	1.5	1.5
PK1018-331K-□□	330	0.212	1.2	1.2
PK1018-471K-□□	470	0.380	1.0	1.0
PK1018-681K-□□	680	0.548	0.84	0.84
PK1018-102K-□□	1000	0.844	0.66	0.66
PK1018-152K-□□	1500	1.18	0.55	0.55
PK1018-222K-□□	2200	2.00	0.46	0.44
PK1018-332K-□□	3300	2.53	0.38	0.38
PK1018-472K-□□	4700	3.19	0.32	0.32
PK1018-682K-□□	6800	5.69	0.26	0.25
PK1018-103K-□□	10000	7.30	0.22	0.22
PK1018-153K-□□	15000	10.5	0.18	0.18
PK1018-223K-□□	22000	21.8	0.14	0.13
PK1018-333K-□□	33000	25.7	0.12	0.12
PK1018-473K-□□	47000	36.1	0.10	0.10
PK1018-683K-□□	68000	57.3	0.08	0.08
PK1018-104K-□□	100000	89.7	0.06	0.06

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.
 Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.



• PK1213 series

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1213-100M-□□	10	0.023	8.0	5.1
PK1213-150K-□□	15	0.028	6.5	4.5
PK1213-220K-□□	22	0.035	5.5	4.2
PK1213-330K-□□	33	0.043	4.5	3.7
PK1213-470K-□□	47	0.052	3.6	3.4
PK1213-680K-□□	68	0.068	3.1	3.0
PK1213-101K-□□	100	0.097	2.6	2.5
PK1213-151K-□□	150	0.14	2.1	2.1
PK1213-221K-□□	220	0.20	1.7	1.7
PK1213-331K-□□	330	0.30	1.4	1.4
PK1213-471K-□□	470	0.43	1.1	1.1
PK1213-681K-□□	680	0.61	0.95	0.99
PK1213-102K-□□	1000	1.00	0.78	0.78
PK1213-152K-□□	1500	1.30	0.64	0.68
PK1213-222K-□□	2200	2.00	0.53	0.55
PK1213-332K-□□	3300	3.10	0.43	0.44
PK1213-472K-□□	4700	4.40	0.36	0.37
PK1213-682K-□□	6800	6.50	0.30	0.30
PK1213-103K-□□	10000	10.0	0.24	0.24

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20℃.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



PKS SERIES

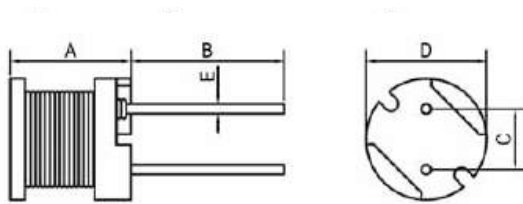
PEAKING COILS.

Applications :

- Television, VCD, DVD.
- Personal computer.
- Switching Power Supplies.
- Telecommunication devices.



Shape and Dimension(unit:mm):



Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKS0605	5.2	4.0	4.0	6.5	0.50
PKS0606	6.5	4.0	4.0	6.5	0.50
PKS0805	5.5	5.0	5.0	8.3	0.65

Item	A Max.	B±1.0	C±0.5	D Max.	E±0.05
PKS0807	7.5	5.0	5.0	8.3	0.65
PKS0809	9.5	5.0	5.0	8.3	0.65

Features :

- Low cost power inductor.
- Low DC Resistance and high current.
- Best for the power supply line.
- Also have sleeve(UL tube) wrapped to protect the winding.
- Except PKS4W, tape packaging for auto-insertion.

Characteristics:

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20$) Whichever lower.
- Operating temperature : -20 to 85°C .

Product Identification :

PKS 0807 - 101 K - TF

(1) (2) (3) (4) (5)

- (1) Type: Peaking coils.
- (2) Style: Core size, OD=8.3mm max, Ht=7.5mm max.
- (3) Inductance: 101 for 100uH.
- (4) Inductance tolerance: K: $\pm 10\%$, M: $\pm 20\%$.
- (5) Packing: "TF": Tape; No code: Bulk.

Test equipment:

- L : HP4284A or HP4285A LCR meter.
- DCR: Millil-ohm meter.
- Electrical specifications at 25°C .



● **PKS 0605 / 0606 / 0805 / 0807 / 0809 series**

Part No.	L (uH)	DCR(Ω)Max.					Rated Current (A) Max.				
		PKS 0605	PKS 0606	PKS 0805	PKS 0807	PKS 0809	PKS 0605	PKS 0606	PKS 0805	PKS 0807	PKS 0809
100M	10			0.07	0.05	0.04			2.50	2.90	2.60
120M	12			0.08	0.06	0.04			2.40	2.50	2.60
150M	15			0.09	0.07	0.05			2.10	2.20	2.10
180M	18			0.10	0.08	0.05			2.00	1.90	2.00
220K	22	0.18	0.11	0.12	0.09	0.06	0.90	1.27	1.70	1.80	1.70
270K	27	0.21	0.14	0.14	0.11	0.06	0.81	1.14	1.60	1.70	1.60
330K	33	0.27	0.17	0.17	0.13	0.07	0.74	1.03	1.40	1.50	1.40
390K	39	0.29	0.19	0.21	0.14	0.08	0.68	0.95	1.30	1.30	1.40
470K	47	0.34	0.23	0.24	0.15	0.10	0.62	0.87	1.20	1.30	1.30
560K	56	0.42	0.26	0.31	0.18	0.11	0.57	0.80	1.10	1.20	1.20
680K	68	0.48	0.28	0.34	0.20	0.14	0.51	0.72	1.00	1.10	1.10
820K	82	0.55	0.39	0.40	0.24	0.16	0.47	0.66	0.93	1.00	1.00
101K	100	0.68	0.43	0.52	0.28	0.19	0.42	0.59	0.81	0.89	0.90
121K	120	0.77	0.54	0.59	0.36	0.22	0.39	0.54	0.76	0.81	0.82
151K	150	0.95	0.64	0.71	0.42	0.27	0.35	0.48	0.67	0.72	0.74
181K	180	1.15	0.74	0.89	0.57	0.31	0.32	0.44	0.62	0.66	0.71
221K	220	1.30	0.96	1.04	0.63	0.38	0.29	0.40	0.54	0.57	0.64
271K	270	1.55	1.12	1.28	0.88	0.53	0.26	0.36	0.49	0.51	0.57
331K	330	2.18	1.48	1.60	1.05	0.61	0.23	0.33	0.44	0.46	0.51
391K	390	2.47	1.66	1.67	1.17	0.69	0.21	0.30	0.41	0.44	0.48
471K	470	2.92	1.91	2.55	1.34	0.89	0.20	0.28	0.38	0.41	0.43
561K	560	3.97	2.31	2.83	1.72	1.01	0.18	0.25	0.35	0.36	0.40
681K	680	4.57	2.67	3.25	1.96	1.18	0.16	0.23	0.32	0.33	0.35
821K	820	5.28	3.10	3.82	2.56	1.57	0.15	0.21	0.31	0.30	0.32
102K	1000	7.06	4.45	5.28	2.94	1.84	0.13	0.19	0.25	0.27	0.30
122K	1200			6.03	4.04	2.10			0.23	0.24	0.27
152K	1500			7.15	4.70	2.80			0.21	0.22	0.23
182K	1800			8.26	5.05	3.21			0.20	0.20	0.21
222K	2200			11.1	6.25	4.21			0.18	0.18	0.19
272K	2700			13.1	8.72	4.94			0.16	0.16	0.17
332K	3300			15.9	10.6	6.16			0.14	0.15	0.15
392K	3900			18.0	14.2	6.84			0.13	0.14	0.14
472K	4700			23.9	16.7	7.89			0.12	0.12	0.13
562K	5600			26.8	18.7	11.5			0.11	0.11	0.12
682K	6800			36.0	21.8	13.2			0.098	0.10	0.11
822K	8200			46.5	28.7	15.2			0.088	0.093	0.10
103K	10000			55.7	33.0	22.0			0.081	0.084	0.089
123K	12000					25.0					0.073
153K	15000					29.1					0.068
183K	18000					38.9					0.066
223K	22000					44.9					0.059
273K	27000					55.7					0.052
333K	33000					64.2					0.048
393K	39000					74.2					0.042
473K	47000					96.4					0.038

NOTE : Measuring Frequency: 10uH~82uH @ 2.52MHz 0.25V , 100uH~47mH @ 1kHz 0.5V

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



MF SERIES

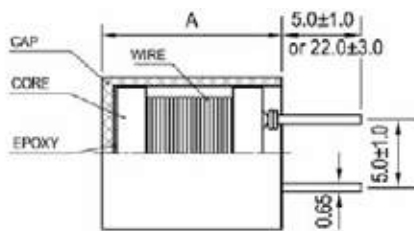
FILTER CHOKE WITH MOLDED CAP.

Applications :

- Televisions, VCD,DVD.
- Personal computer.
- Switching Power Supply.
- Telecommunication devices.



Shape and Dimensions (Dimensions are in mm) :



Item	A±0.3	D
MF0709	9.5	7.8 ±0.3
MF0809	9.5	8.8 +0.6/-0
MF1112	12.2	11.2 ±0.3

Features :

- Encapsulated in a resin housing which adds to the stability of the mounted part on a PCB.
- Low DC Resistance and high current.
- Best for the power supply line applications.
- High dimensional accuracy.
- Meets UL 94V-0 flammability standard.
- Tape packaging for auto-insertion.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 20% lower than its initial value. (Ta=20°C). (MF1112 are 10%)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=25°C. (Ta=20°C).
- Operating temperature ranges: -20 to 80°C.

Product Identification :

MF 1112 - 472 K - TF

(1) (2) (3) (4) (5)

(1) Type: **F**ilter chokes with **M**olded cap.

(2) Style: **O**utside size.

(3) Inductance: "**472**" for **4700**uH.

(4) Inductance tolerance : **J**: ± 5%, **K**: ± 10%, **M**: ± 20%

(5) Packing: "**TF**": Tape; No code: Bulk.

Test equipments :

- L: HP4284A Precision LCR meter @1kHz 0.25V
- Q: HP4285A Precision LCR meter.
- DCR : Millil-ohm meter
- SRF : HM9461 L-SRF meter or equivalent.
- Electrical specifications at 25 °C



● **MF0709/ 0809 series**

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF Ref. (MHz)	DCR (Ω) Max.	Rated current(A) Max.	
						I sat.	I rm
MF0709-1R0M	1.0	10	7.96MHz	70	0.006	6.6	5.0
MF0709-1R5M	1.5	10	7.96MHz	56	0.008	5.4	4.3
MF0709-2R2M	2.2	10	7.96MHz	45	0.011	4.0	3.7
MF0709-3R3M	3.3	10	7.96MHz	36	0.018	3.6	2.9
MF0709-4R7M	4.7	10	7.96MHz	29	0.022	3.1	2.6
MF0709-6R8M	6.8	10	7.96MHz	7.6	0.17	0.96	0.94
MF0709-100K	10	20	2.52MHz	6.2	0.28	0.79	0.73
MF0709-150K	15	20	2.52MHz	5.0	0.33	0.66	0.67
MF0709-220K	22	20	2.52MHz	4.0	0.56	0.53	0.52
MF0709-330K	33	20	2.52MHz	3.2	0.72	0.44	0.46
MF0709-470K	47	20	2.52MHz	7.6	0.17	0.96	0.94
MF0709-680K	68	20	2.52MHz	6.2	0.28	0.79	0.73
MF0709-101K	100	20	796KHz	5.0	0.33	0.66	0.67
MF0709-151K	150	20	796KHz	4.0	0.56	0.53	0.52
MF0709-221K	220	20	796KHz	3.2	0.72	0.44	0.46
MF0709-331K	330	20	796KHz	2.5	1.1	0.36	0.37
MF0709-471K	470	20	796KHz	2.0	1.7	0.30	0.30
MF0709-681K	680	20	796KHz	1.7	2.3	0.25	0.26
MF0709102K	1000	70	252KHz	1.3	4.3	0.20	0.19
MF0709-152K	1500	50	252KHz	1.3	5.0	0.17	0.16
MF0809-2R2M	2.2	10	7.96MHz	60	0.011	5.5	4.0
MF0809-3R3M	3.3	10	7.96MHz	38	0.013	3.8	3.4
MF0809-4R7M	4.7	10	7.96MHz	30	0.017	3.7	3.0
MF0809-6R8M	6.8	10	7.96MHz	24	0.023	2.8	2.6
MF0809-100K	10	20	2.52MHz	19	0.031	2.5	2.2
MF0809-150K	15	20	2.52MHz	15	0.042	2.0	1.9
MF0809-220K	22	20	2.52MHz	12	0.070	1.6	1.5
MF0809-330K	33	20	2.52MHz	10	0.092	1.3	1.2
MF0809-470K	47	20	2.52MHz	8.2	0.13	1.1	1.0
MF0809-680K	68	20	2.52MHz	6.6	0.16	0.91	0.97
MF0809-101K	100	15	796KHz	5.4	0.23	0.75	0.81
MF0809-151K	150	15	796KHz	4.3	0.40	0.60	0.61
MF0809-221K	220	15	796KHz	3.5	0.53	0.50	0.53
MF0809-331K	330	15	796KHz	2.8	0.78	0.41	0.44
MF0809-471K	470	10	796KHz	2.3	1.0	0.34	0.39
MF0809-681K	680	10	796KHz	1.9	1.5	0.28	0.32
MF0809-102K	1000	20	252KHz	1.5	2.2	0.23	0.26
MF0809-152K	1500	30	252KHz	1.2	3.5	0.18	0.21



● **MF1112 series**

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF Ref. (MHz)	DCR (Ω) Max.	Rated current (A) Max.	
						I sat	I rms
MF1112-3R3M	3.3	10	7.96MHz	36	0.010	8.8	5.9
MF1112-4R7M	4.7	10	7.96MHz	28	0.015	7.2	4.8
MF1112-6R8M	6.8	10	7.96MHz	18	0.016	6.1	4.6
MF1112-100M	10	20	2.52MHz	16	0.025	5.0	3.7
MF1112-150M	15	20	2.52MHz	12	0.029	4.2	3.4
MF1112-220K	22	20	2.52MHz	9.5	0.040	3.4	2.9
MF1112-330K	33	30	2.52MHz	7.0	0.062	2.8	2.3
MF1112-470K	47	30	2.52MHz	5.8	0.075	2.3	2.1
MF1112-680K	68	20	2.52MHz	4.7	0.13	1.9	1.6
MF1112-101K	100	20	796KHz	3.8	0.16	1.6	1.4
MF1112-151K	150	20	796KHz	3.1	0.26	1.3	1.1
MF1112-221K	220	20	796KHz	2.5	0.33	1.1	1.0
MF1112-331K	330	20	796KHz	2.0	0.52	0.88	0.82
MF1112-471K	470	10	796KHz	1.6	0.66	0.75	0.72
MF1112-681K	680	10	796KHz	1.3	1.1	0.61	0.56
MF1112-102J	1000	20	252KHz	1.1	1.4	0.51	0.50
MF1112-152J	1500	30	252KHz	0.82	2.4	0.43	0.38
MF1112-222J	2200	20	252KHz	0.76	3.2	0.35	0.33
MF1112-332J	3300	30	252KHz	0.64	4.9	0.28	0.26
MF1112-472J	4700	30	252KHz	0.54	7.6	0.24	0.21
MF1112-682J	6800	30	252KHz	0.45	9.8	0.20	0.18
MF1112-103J	10000	30	79.6KHz	0.38	18	0.17	0.14
MF1112-153J	15000	50	79.6KHz	0.29	24	0.13	0.12

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



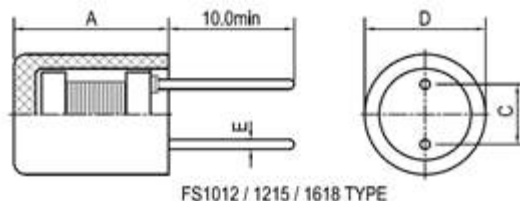
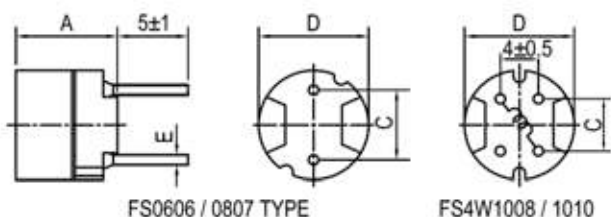
FS SERIES

FERRITE SHIELDED.

Applications:

- Video cameras
- Portable VCRs
- Audio equipments
- Other circuits of consideration against radiation

Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	D Max.	C	E typ.
FS0606	6.5	6.5	4.0±0.5	0.55
FS0807	7.5	8.3	5.0±0.5	0.65
FS4W1008	8.5	10.5	5.0±0.5	0.65
FS4W1010	10.5	10.5	5.0±0.5	0.65
FS1012	13.5	11.0	5.0±1.0	0.80
FS1215	17.0	13.4	5.0±1.0	0.80
FS1618	19.2	17.0	7.5±1.0	0.80

Features :

- No inductive interference
- FS0606/0807/1008/1010/1215/1618 are high power inductors
- FS1012/FSB1014 are excellent Q frequency characteristics and high self-resonant frequency.
- S0606/0807/1012 Taped for auto-insertion.
- RoHS compliant.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20$)
Whichever lower.
- Operating temperature: -20°C to 85°C .

Product Identification:

FS 1012 - 223 K - TF

(1) (2) (3) (4) (5)

- (1) Type : Ferrite **S**hielded.
 (2) Style : core size, OD=10,L=12.
 (3) Inductance : **223** for **22**mH .
 (4) Inductance tolerance :
K: $\pm 10\%$; **L**:15%; **M**: $\pm 20\%$;
 (5) Packing : TF: Tape; No code: Bulk .

Test equipment :

- L: LCR meter.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



● **FS0606 / 0807 / 4W1008 / 4W1010 series**

Part No.	L (uH)	Test Freq.	DCR (Ω) Max.				Rated Current (mA) Max.			
			FS0606	FS0807	FS4W 1008	FS4W 1010	FS0606	FS0807	FS4W 1008	FS4W 1010
100L	10	2.52MHz			0.05	0.023			2800	3510
120L	12	2.52MHz			0.06	0.024			2500	3240
150L	15	2.52MHz			0.07	0.036			2300	2880
180L	18	2.52MHz			0.08	0.039			2100	2610
220L	22	2.52MHz	0.13	0.08	0.09	0.042	960	1600	2000	2340
270L	27	2.52MHz	0.18	0.10	0.10	0.045	870	1400	1760	2160
330L	33	2.52MHz	0.21	0.14	0.11	0.057	780	1300	1600	1890
390L	39	2.52MHz	0.26	0.15	0.12	0.076	720	1200	1380	1800
470L	47	2.52MHz	0.29	0.17	0.14	0.100	660	1100	1280	1620
560K	56	2.52MHz	0.33	0.19	0.15	0.110	600	990	1200	1440
680K	68	2.52MHz	0.36	0.21	0.16	0.150	550	890	1000	1350
820K	82	2.52MHz	0.39	0.27	0.18	0.160	500	810	960	1260
101K	100	1KHz	0.54	0.32	0.20	0.190	450	740	920	1080
121K	120	1KHz	0.62	0.36	0.24	0.210	410	670	800	990
151K	150	1KHz	0.72	0.51	0.35	0.230	370	600	730	900
181K	180	1KHz	0.88	0.57	0.40	0.260	340	550	640	820
221K	220	1KHz	0.99	0.76	0.54	0.290	300	500	610	740
271K	270	1KHz	1.52	0.86	0.76	0.360	270	450	560	670
331K	330	1KHz	1.69	0.97	0.86	0.510	250	410	500	610
391K	390	1KHz	1.85	1.28	0.93	0.690	230	370	440	550
471K	470	1KHz	2.85	1.44	1.23	0.980	210	340	410	510
561K	560	1KHz	3.21	1.61	1.34	1.100	190	310	380	460
681K	680	1KHz	3.60	2.07	1.53	1.200	170	280	340	420
821K	820	1KHz	4.87	2.33	2.10	1.300	160	260	320	380
102K	1000	1KHz	5.65	2.72	2.30	1.500	140	230	280	350
122K	1200	1KHz		3.98				210		
152K	1500	1KHz		4.50				190		
182K	1800	1KHz		6.81				170		
222K	2200	1KHz		7.56				160		
272K	2700	1KHz		8.54				140		
332K	3300	1KHz		9.74				130		
392K	3900	1KHz		12.9				120		
472K	4700	1KHz		14.7				110		
562K	5600	1KHz		20.4				99		
682K	6800	1KHz		23.0				89		
822K	8200	1KHz		30.6				81		
103K	10000	1KHz		35.0				74		



● **FS1012 series**

Part No.	L (mH) @1KHz	Q Min.	Q Test Freq.	DCR (Ω) Max.	Rated Current (mA) Max.
FS1012 -122K	1.2	50	252 kHz	1.2	200
FS1012 -152K	1.5	50	252 kHz	1.5	200
FS1012 -182K	1.8	50	252 kHz	1.6	200
FS1012 -222K	2.2	50	252 kHz	1.8	200
FS1012 -272K	2.7	40	252 kHz	1.9	200
FS1012 -332K	3.3	40	252 kHz	2.3	200
FS1012 -392K	3.9	40	252 kHz	2.5	200
FS1012 -472K	4.7	40	252 kHz	3.7	140
FS1012 -502K	5.0	40	252 kHz	3.8	140
FS1012 -562K	5.6	40	252 kHz	4.0	140
FS1012 -682K	6.8	40	252 kHz	4.2	140
FS1012 -822K	8.2	40	252 kHz	5.3	140
FS1012 -103K	10	100	79.6 kHz	7.3	100
FS1012 -123K	12	100	79.6 kHz	8.3	100
FS1012 -153K	15	100	79.6 kHz	11.0	90
FS1012 -183K	18	100	79.6 kHz	13.6	75
FS1012 -223K	22	100	79.6 kHz	15.4	75
FS1012 -273K	27	100	79.6 kHz	17.9	75
FS1012 -333K	33	100	79.6 kHz	23.3	60
FS1012 -393K	39	100	79.6 kHz	25.9	60
FS1012 -473K	47	80	79.6 kHz	30.4	60
FS1012 -503K	50	80	79.6 kHz	37.8	50
FS1012 -563K	56	80	79.6 kHz	39.1	50
FS1012 -683K	68	50	79.6 kHz	40	50
FS1012 -823K	82	50	79.6 kHz	47	40
FS1012 -104K	100	120	25.2 kHz	50	40
FS1012 -124K	120	100	25.2 kHz	91	30
FS1012 -154K	150	90	25.2 kHz	140	20
FS1012 -184K	180	90	25.2 kHz	164	20
FS1012 -224K	220	90	25.2 kHz	182	20
FS1012 -274K	270	90	25.2 kHz	200	20
FS1012 -334K	330	80	25.2 kHz	275	15
FS1012 -394K	390	80	25.2 kHz	300	15
FS1012 -474K	470	80	25.2 kHz	345	15
FS1012 -564K	560	60	25.2 kHz	520	8.4
FS1012 -684K	680	60	25.2 kHz	590	8.4
FS1012 -824K	820	50	25.2 kHz	675	8.4
FS1012 -105K	1000	50	25.2 kHz	770	8.4
FS1012 -125K	1200	50	25.2 kHz	845	8.4



● **FS1215 / 1618 series**

Part No.	L (uH) @1KHz	DCR (Ω) Max.		I sat (A) Max. ¹		I rms (A) Max. ²	
		FS1215	FS1618	FS1215	FS1618	FS1215	FS1618
100L	10	0.015	0.020	5.0	7.0	3.61	5.20
150L	15	0.017	0.022	4.0	6.0	3.16	4.90
180L	18	0.020	0.025	3.7	5.2	2.81	4.70
220L	22	0.021	0.028	3.3	4.9	2.44	4.50
270L	27	0.023	0.032	3.0	4.3	2.12	4.30
330L	33	0.024	0.033	2.7	3.9	1.80	4.10
390L	39	0.027	0.036	2.5	3.7	1.64	3.90
470L	47	0.032	0.038	2.3	3.4	1.57	3.60
560L	56	0.045	0.042	2.1	3.1	1.39	3.50
680L	68	0.060	0.046	1.9	2.9	1.26	3.40
820L	82	0.070	0.049	1.7	2.8	1.18	3.10
101L	100	0.09	0.053	1.5	2.5	1.14	2.90
151L	150	0.11	0.077	1.0	2.0	0.82	2.30
181L	180	0.12	0.10	0.90	1.8	0.73	2.10
221L	220	0.14	0.14	0.82	1.6	0.61	1.70
271L	270	0.16	0.20	0.74	1.4	0.54	1.50
331L	330	0.17	0.27	0.68	1.3	0.52	1.40
391L	390	0.32	0.41	0.62	1.2	0.48	1.10
471L	470	0.35	0.46	0.56	1.1	0.44	1.00
561L	560	0.39	0.51	0.52	1.0	0.40	0.98
681L	680	0.44	0.56	0.46	0.90	0.38	0.94
821L	820	0.56	0.63	0.42	0.83	0.28	0.90
102L	1000	0.68	0.69	0.38	0.75	0.27	0.86
122L	1200	0.78		0.35		0.26	
152L	1500	1.10		0.31		0.23	
182L	1800	1.20		0.28		0.21	
222L	2200	1.30		0.25		0.18	

NOTE :

- 1.Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value.(Ta=20℃)
- 2.Temperature Rise Current(I rms): The current when temperature of coil increase up to max.ΔT=20℃.(Ta=20℃)

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMDCHGR SERIES

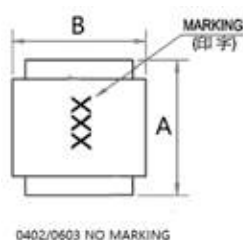
MINIATURE SMD CHIP INDUCTORS

Applications :

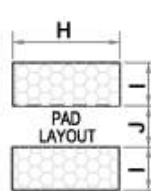
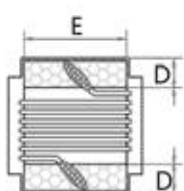
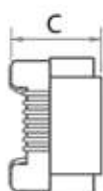
- Pagers, Cordless phone.
- High Freq. Communication Products.
- GPS(Global Position System).



Shape and Dimensions (Dimensions are in mm) :



0402/0603 NO MARKING



Item	A Max	B Max	C Max	D	E	Item	H	I	J
0402F	1.19	0.70	0.66	0.25	0.51	0402F	0.66	0.36	0.46
0603F	1.80	1.12	1.02	0.38	0.76	0603F	1.02	0.64	0.64
0805F	2.30	1.73	1.52	0.51	1.27	0805F	1.78	1.02	0.76
1008F	2.92	2.79	2.10	0.51	2.03	1008F	2.54	1.02	1.27

Features :

- Miniature SMD chip inductors designed especially for the need of high frequency applications.
- The ceramic construction delivers the highest possible SRF's and Q values.
- The non-magnetic coilform also assures the utmost In thermal stability, predictability, and batch consistency.
- Their ferrite core inductors have lower DCR and higher current ratings. The inductance values from 1.2 to 10uH.

Characteristics :

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T = 15^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Operating temp: -40°C to 125°C

Product Identification :

SMD CH G R 1008F - 47N J
 (1) (2) (3) (4) (5) (6) (7)

- (1) Type : Surface Mount Devices.
- (2) Material: CH : Ceramic.
- (3) Terminal G : with Gold wraparound.
- (4) Packaging R : Tape and Reel.
- (5) Dimension: L=0.1 Inch W=0.08 Inch.
- (6) Inductance : 47N for 47 nH.
- (7) Inductance tolerance :
 G: $\pm 2\%$; J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$.

Test equipments :

- L&Q&SRF: Agilent E4991A RF Impedance analyzer. with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



● **SMDCHGR0402F series**

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0402F-1N0□	1.0	10	13	250	10000	0.045	1360
SMDCHGR0402F-1N9□	1.9	10	16	250	6000	0.070	1040
SMDCHGR0402F-2N0□	2.0	10	18	250	6000	0.070	1040
SMDCHGR0402F-2N2□	2.2	10	18	250	6000	0.070	960
SMDCHGR0402F-2N4□	2.4	10	16	250	6000	0.080	790
SMDCHGR0402F-2N7□	2.7	10	15	250	6000	0.120	640
SMDCHGR0402F-3N3□	3.3	5, 10	20	250	6000	0.066	840
SMDCHGR0402F-3N9□	3.9	2, 5, 10	20	250	6000	0.066	840
SMDCHGR0402F-4N3□	4.3	2, 5, 10	20	250	6000	0.091	700
SMDCHGR0402F-4N7□	4.7	2, 5, 10	18	250	4500	0.200	640
SMDCHGR0402F-5N1□	5.1	2, 5, 10	18	250	4800	0.083	800
SMDCHGR0402F-5N6□	5.6	2, 5, 10	20	250	4800	0.083	760
SMDCHGR0402F-6N2□	6.2	2, 5, 10	23	250	4800	0.083	760
SMDCHGR0402F-6N8□	6.8	2, 5, 10	23	250	4800	0.260	680
SMDCHGR0402F-7N5□	7.5	2, 5, 10	23	250	4800	0.100	680
SMDCHGR0402F-8N2□	8.2	2, 5, 10	25	250	4400	0.100	630
SMDCHGR0402F-8N7□	8.7	2, 5, 10	25	250	4100	0.200	480
SMDCHGR0402F-9N0□	9.0	2, 5, 10	25	250	4100	0.100	680
SMDCHGR0402F-9N5□	9.5	2, 5, 10	25	250	4000	0.200	480
SMDCHGR0402F-10N□	10	2, 5, 10	25	250	3900	0.200	480
SMDCHGR0402F-11N□	11	2, 5, 10	25	250	3680	0.120	640
SMDCHGR0402F-12N□	12	2, 5, 10	25	250	3600	0.120	640
SMDCHGR0402F-15N□	15	2, 5, 10	25	250	3280	0.300	560
SMDCHGR0402F-16N□	16	2, 5, 10	25	250	3100	0.220	560
SMDCHGR0402F-18N□	18	2, 5, 10	25	250	3100	0.230	420
SMDCHGR0402F-20N□	20	2, 5, 10	25	250	3000	0.250	420
SMDCHGR0402F-24N□	24	2, 5, 10	25	250	2700	0.300	400
SMDCHGR0402F-27N□	27	2, 5, 10	24	250	2480	0.520	280
SMDCHGR0402F-30N□	30	2, 5, 10	25	250	2350	0.500	400
SMDCHGR0402F-33N□	33	2, 5, 10	24	250	2350	0.650	350
SMDCHGR0402F-39N□	39	2, 5, 10	25	250	2100	0.750	200
SMDCHGR0402F-43N□	43	2, 5, 10	25	250	2030	0.810	100
SMDCHGR0402F-51N□	51	2, 5, 10	25	250	1750	0.820	100
SMDCHGR0402F-56N□	56	2, 5, 10	25	250	1750	0.970	100
SMDCHGR0402F-68N□	68	2, 5, 10	25	250	1620	1.120	100
SMDCHGR0402F-82N□	82	2, 5, 10	25	250	1260	1.70	50
SMDCHGR0402F-R10□	100	2, 5, 10	25	250	1160	2.00	30



● **SMDCHGR0603F series**

Part No.	Inductance L (nH)	Tolerance (±%)	Q Min.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0603F-1N6□	1.6	10	18	250	12500	0.040	700
SMDCHGR0603F-1N8□	1.8	10	16	250	12500	0.045	700
SMDCHGR0603F-2N0□	2.0	10	12	250	10000	0.090	700
SMDCHGR0603F-2N2□	2.2	10	12	250	10000	0.090	700
SMDCHGR0603F-3N3□	3.3	10	20	250	5900	0.075	700
SMDCHGR0603F-3N6□	3.6	2, 5, 10	22	250	5900	0.075	700
SMDCHGR0603F-3N9□	3.9	2, 5, 10	22	250	5900	0.080	700
SMDCHGR0603F-4N7□	4.7	2, 5, 10	20	250	5800	0.116	700
SMDCHGR0603F-5N1□	5.1	2, 5, 10	20	250	5700	0.120	700
SMDCHGR0603F-6N2□	6.2	2, 5, 10	27	250	5700	0.110	700
SMDCHGR0603F-6N8□	6.8	2, 5, 10	27	250	5700	0.110	700
SMDCHGR0603F-7N5□	7.5	2, 5, 10	28	250	4800	0.110	700
SMDCHGR0603F-8N2□	8.2	2, 5, 10	28	250	4700	0.120	700
SMDCHGR0603F-9N1□	9.1	2, 5, 10	26	250	4500	0.150	700
SMDCHGR0603F-9N5□	9.5	2, 5, 10	26	250	4500	0.150	700
SMDCHGR0603F-10N□	10	2, 5, 10	31	250	4500	0.130	700
SMDCHGR0603F-12N□	12	2, 5, 10	35	250	4000	0.130	700
SMDCHGR0603F-15N□	15	2, 5, 10	30	250	4000	0.150	700
SMDCHGR0603F-18N□	18	2, 5, 10	34	250	3300	0.160	700
SMDCHGR0603F-22N□	22	2, 5, 10	38	250	3000	0.190	700
SMDCHGR0603F-27N□	27	2, 5, 10	36	250	2800	0.220	600
SMDCHGR0603F-30N□	30	2, 5, 10	37	250	2250	0.220	600
SMDCHGR0603F-33N□	33	2, 5, 10	36	250	2300	0.220	600
SMDCHGR0603F-36N□	36	2, 5, 10	36	250	2080	0.250	600
SMDCHGR0603F-39N□	39	2, 5, 10	40	250	2200	0.250	600
SMDCHGR0603F-47N□	47	2, 5, 10	36	200	2000	0.280	600
SMDCHGR0603F-56N□	56	2, 5, 10	36	200	1900	0.280	600
SMDCHGR0603F-68N□	68	2, 5, 10	36	200	1700	0.340	600
SMDCHGR0603F-82N□	82	2, 5, 10	34	150	1700	0.55	400
SMDCHGR0603F-91N□	91	2, 5, 10	30	150	1400	0.63	400
SMDCHGR0603F-R10□	100	2, 5, 10	30	150	1400	0.63	400
SMDCHGR0603F-R12□	120	2, 5, 10	32	150	1300	0.73	300
SMDCHGR0603F-R15□	150	2, 5, 10	28	150	990	0.80	280
SMDCHGR0603F-R16□	160	2, 5, 10	25	100	990	1.25	250
SMDCHGR0603F-R18□	180	2, 5, 10	25	100	990	1.45	240
SMDCHGR0603F-R20□	200	2, 5, 10	25	100	900	1.55	200
SMDCHGR0603F-R22□	220	2, 5, 10	25	100	900	2.10	200
SMDCHGR0603F-R27□	270	2, 5, 10	24	100	900	2.30	170
SMDCHGR0603F-R30□	300	2, 5, 10	24	100	1000	3.00	100
SMDCHGR0603F-R33□	330	2, 5, 10	25	100	900	3.89	100
SMDCHGR0603F-R39□	390	2, 5, 10	25	100	800	4.35	100



● **SMDCHGR0805F series**

Part No.	Inductance L(nH) Test freq. (MHz)	Toleranc (±%)	Q MIN Test freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR0805F-2N2□	2.2/250	10	50/1500	8500	0.030	800
SMDCHGR0805F-2N7□	2.7/250	10	50/1500	8000	0.045	800
SMDCHGR0805F-3N3□	3.3/250	10	35/1500	7900	0.090	600
SMDCHGR0805F-4N7□	4.7/250	10	40/1000	6000	0.050	600
SMDCHGR0805F-5N1□	5.1/250	2, 5, 10	50/1000	580	0.050	600
SMDCHGR0805F-5N6□	5.6/250	2, 5, 10	50/1000	5500	0.065	600
SMDCHGR0805F-6N8□	6.8/250	2, 5, 10	50/1000	5500	0.110	600
SMDCHGR0805F-7N5□	7.5/2500	2, 5, 10	35/1000	4700	0.150	600
SMDCHGR0805F-8N2□	8.2/250	2, 5, 10	35/1000	4700	0.200	600
SMDCHGR0805F-10N□	10/250	2, 5, 10	50/500	4200	0.150	600
SMDCHGR0805F-10N□	12/250	2, 5, 10	50/500	4000	0.150	600
SMDCHGR0805F-15N□	15/250	2, 5, 10	45/500	3400	0.170	600
SMDCHGR0805F-18N□	18/250	2, 5, 10	55/500	3300	0.200	600
SMDCHGR0805F-20N□	20/250	2, 5, 10	55/500	2800	0.220	500
SMDCHGR0805F-22N□	22/250	2, 5, 10	55/500	2600	0.220	500
SMDCHGR0805F-27N□	27/250	2, 5, 10	55/500	2500	0.250	500
SMDCHGR0805F-30N□	30/250	2, 5, 10	55/500	2100	0.260	500
SMDCHGR0805F-33N□	33/250	2, 5, 10	55/500	2040	0.270	500
SMDCHGR0805F-36N□	36/250	2, 5, 10	55/500	2000	0.280	500
SMDCHGR0805F-39N□	39/250	2, 5, 10	55/500	2000	0.290	500
SMDCHGR0805F-47N□	47/200	2, 5, 10	55/500	1650	0.310	500
SMDCHGR0805F-51N□	51/200	2, 5, 10	55/500	1600	0.340	500
SMDCHGR0805F-56N□	56/200	2, 5, 10	55/500	1550	0.340	500
SMDCHGR0805F-68N□	68/200	2, 5, 10	55/500	1450	0.380	500
SMDCHGR0805F-75N□	75/200	2, 5, 10	55/500	1400	0.400	400
SMDCHGR0805F-82N□	82/150	2, 5, 10	55/500	1300	0.420	400
SMDCHGR0805F-91N□	91/150	2, 5, 10	50/500	1100	0.460	400
SMDCHGR0805F-R10□	100/150	2, 5, 10	50/500	1200	0.460	400
SMDCHGR0805F-R12□	120/150	2, 5, 10	45/250	1100	0.510	400
SMDCHGR0805F-R15□	150/100	2, 5, 10	45/250	920	0.560	400
SMDCHGR0805F-R18□	150/100	2, 5, 10	45/250	870	0.640	400
SMDCHGR0805F-R22□	220/100	2, 5, 10	40/250	850	1.050	400
SMDCHGR0805F-R27□	270/100	2, 5, 10	40/250	650	1.100	350
SMDCHGR0805F-R33□	330/100	2, 5, 10	40/250	600	1.400	310
SMDCHGR0805F-R36□	360/100	2, 5, 10	40/250	560	1.500	290
SMDCHGR0805F-R47□	470/50	5, 10	33/100	375	2.00	250
SMDCHGR0805F-R56□	560/25	5, 10	23/50	340	2.00	230
SMDCHGR0805F-R68□	680/25	5, 10	23/50	300	2.10	190
SMDCHGR0805F-R82□	820/25	5, 10	23/50	250	2.14	180
SMDCHGR0805F-1R0□	1000/25	5, 10	20/50	200	2.40	170
SMDCHGR0805F-1R5□	1500/7.9	5, 10	18/50	170	2.80	160
SMDCHGR0805F-1R8□	1800/7.9	5, 10	18/50	140	3.80	150
SMDCHGR0805F-2R2□	2200/7.9	5, 10	16/7.9	50	4.20	150



SMDCHGR1008F series

Part No.	Inductance L(nH) Test freq. (MHz)	Toleranc (±%)	Q MIN Test freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max
SMDCHGR1008F-3N9□	3.9/50	5, 10	50/1500	6000	0.035	1000
SMDCHGR1008F-4N7□	4.7/50	5, 10	50/1500	6000	0.045	1000
SMDCHGR1008F-5N6□	5.6/50	5, 10	30/1000	6000	0.18	1000
SMDCHGR1008F-10N□	10/50	2, 5, 10	50/500	4100	0.08	1000
SMDCHGR1008F-12N□	12/50	2, 5, 10	50/500	3300	0.09	1000
SMDCHGR1008F-15N□	15/50	2, 5, 10	45/500	2500	0.15	1000
SMDCHGR1008F-18N□	18/50	2, 5, 10	50/350	2500	0.11	1000
SMDCHGR1008F-22N□	22/50	2, 5, 10	55/350	2400	0.12	1000
SMDCHGR1008F-27N□	27/50	2, 5, 10	55/350	1600	0.13	1000
SMDCHGR1008F-33N□	33/50	2, 5, 10	60/350	1600	0.14	1000
SMDCHGR1008F-36N□	36/50	2, 5, 10	60/350	1550	0.14	1000
SMDCHGR1008F-39N□	39/50	2, 5, 10	60/350	1500	0.15	1000
SMDCHGR1008F-47N□	47/50	2, 5, 10	65/350	1500	0.16	1000
SMDCHGR1008F-56N□	56/50	2, 5, 10	65/350	1100	0.18	1000
SMDCHGR1008F-68N□	68/50	2, 5, 10	65/350	1000	0.20	1000
SMDCHGR1008F-82N□	82/50	2, 5, 10	60/350	1000	0.22	1000
SMDCHGR1008F-91N□	91/50	2, 5, 10	60/350	1000	0.30	1000
SMDCHGR1008F-R10□	100/25	2, 5, 10	60/350	1000	0.56	650
SMDCHGR1008F-R12□	120/25	2, 5, 10	60/350	950	0.63	650
SMDCHGR1008F-R15□	150/25	2, 5, 10	45/100	800	0.70	580
SMDCHGR1008F-R18□	180/25	2, 5, 10	45/100	640	0.77	620
SMDCHGR1008F-R22□	220/25	2, 5, 10	45/100	620	0.84	500
SMDCHGR1008F-R27□	270/25	2, 5, 10	45/100	600	0.91	500
SMDCHGR1008F-R33□	330/25	2, 5, 10	45/100	500	1.05	450
SMDCHGR1008F-R36□	360/25	2, 5, 10	45/100	480	1.10	450
SMDCHGR1008F-R39□	390/25	2, 5, 10	45/100	480	1.12	450
SMDCHGR1008F-R47□	470/25	2, 5, 10	45/100	450	1.19	450
SMDCHGR1008F-R56□	560/25	2, 5, 10	45/100	415	1.33	400
SMDCHGR1008F-R68□	680/25	2, 5, 10	45/100	375	1.47	400
SMDCHGR1008F-R82□	820/25	2, 5, 10	45/100	250	1.61	400
SMDCHGR1008F-1R0□	1000/25	2, 5, 10	35/50	210	1.75	370
SMDCHGR1008F-1R5□	1500/7.9	2, 5, 10	28/50	180	2.30	330
SMDCHGR1008F-1R8□	1800/7.9	2, 5, 10	28/50	160	2.60	300
SMDCHGR1008F-2R2□	2200/7.9	2, 5, 10	20/50	90	2.80	280
SMDCHGR1008F-2R7□	2700/7.9	2, 5, 10	22/25	80	3.20	280
SMDCHGR1008F-3R3□	3300/7.9	2, 5, 10	22/25	70	3.40	280
SMDCHGR1008F-3R9□	3900/7.9	2, 5, 10	16/25	60	3.60	260
SMDCHGR1008F-4R3□	4300/7.9	2, 5, 10	18/25	60	3.80	260
SMDCHGR1008F-4R7□	4700/7.9	5, 10	18/25	60	4.00	260
SMDCHGR1008F-5R6□	5600/7.9	5, 10	18/7.9	55	7.60	240
SMDCHGR1008F-6R8□	6800/7.9	5, 10	18/7.9	50	8.20	200
SMDCHGR1008F-8R2□	8200/7.9	5, 10	18/7.9	40	8.20	170
SMDCHGR1008F-100□	10000/7.9	5, 10	20/7.9	40	9.10	160

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

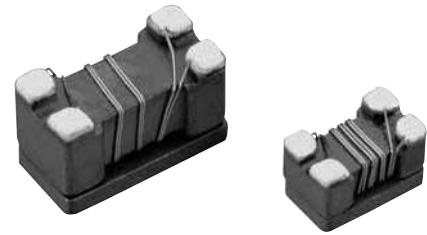


SMDWCM SERIES

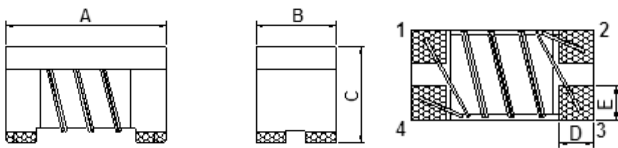
WIRE WOUND TYPE COMMON MODE FILTER.

Applications:

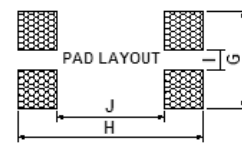
- Interface:LVDS for LCD,USB2.0, IEEE1394.
- Notebooks.personal computers and peripherals.



Shape and Dimensions (Dimensions are in mm) :



Item	A ± 0.2	B ± 0.2	C ± 0.2	D	E
2012	2.00	1.20	1.20	0.45	0.40
3216	3.20	1.60	1.90	0.60	0.60



Item	G	H	I	J
2012	1.20	2.60	0.40	0.80
3216	1.60	3.70	0.40	1.60

Features :

- High common mode impedance at high frequency.
- effects excellent noise suppression performance.
- Realizes small size and low profile.

Characteristics :

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T = 30^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Rated voltage: DC 50V.
- Dielectric strength:125VDC (1minute between lines).
- Insulation resistance :10M Ω Min(100VDC,between Lines) .
- Operating Temperature : -25 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$.

Product Identification :

SMD WCM 2012 S - 900 - 2P

(1) (2) (3) (4) (5) (6)

- (1) Type : Surface Mount Devices.
- (2) Style : Wire Wound Type Common Mode Filter.
- (3) Dimension : L=2.05mm, W=1.25mm.
- (4) Design Code.
- (5) Impedance : 900 for 90 Ω .
- (6) 2P : 2 Lines.

Test equipments :

- Impedance : Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR : Milli-ohm meter.
- Electrical specifications at 25 $^{\circ}\text{C}$.



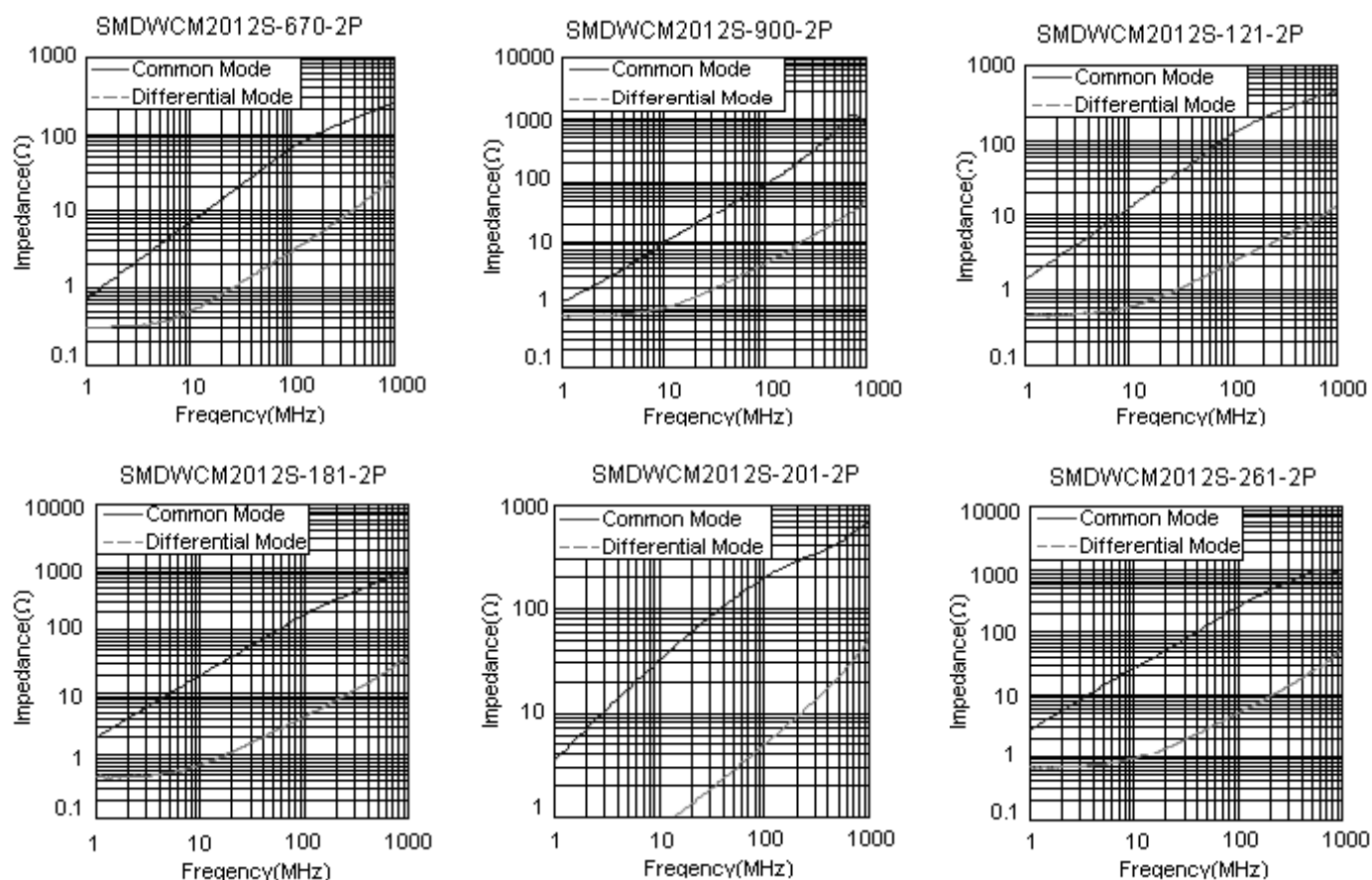
● SMDWCM2012S series

Part No.	Impedance @100MHz (Ω) ± 25%	DCR (Ω) Max.	Rated Current (mA) Max.
SMDWCM2012S-670-2P	67	0.25	400
SMDWCM2012S-900-2P	90	0.35	330
SMDWCM2012S-121-2P	120	0.30	370
SMDWCM2012S-181-2P	180	0.35	330
SMDWCM2012S-201-2P	200	0.35	330
SMDWCM2012S-261-2P	260	0.40	300
SMDWCM2012S-371-2P	370	0.40	280

● SMDWCM3216S series

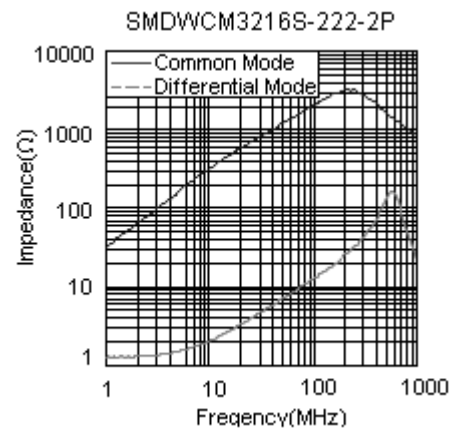
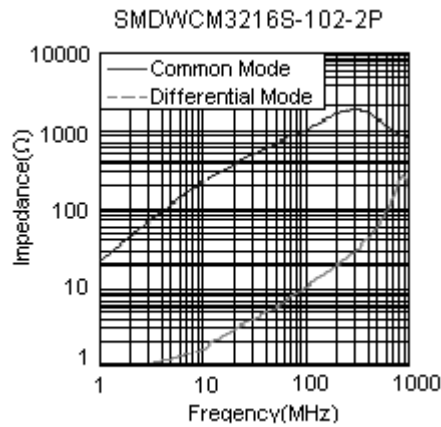
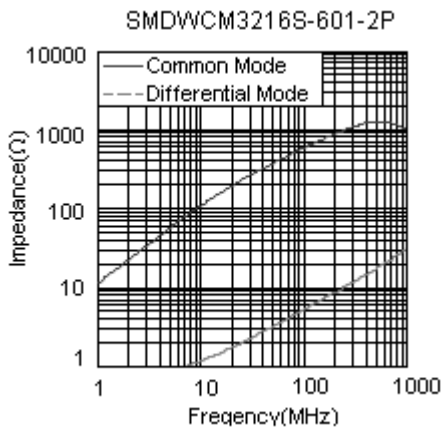
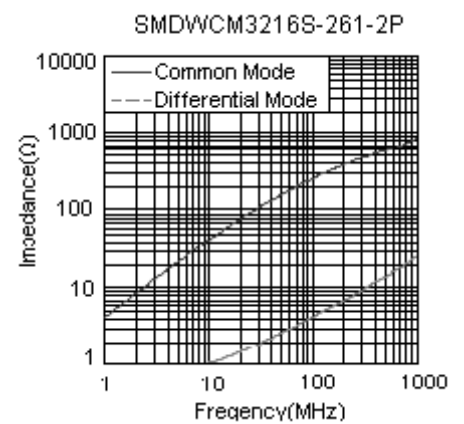
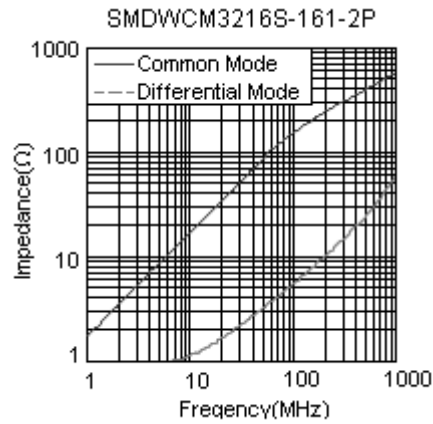
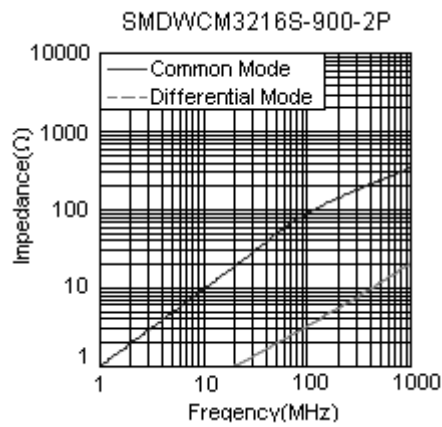
SMDWCM3216S-900-2P	90	0.30	370
SMDWCM3216S-161-2P	160	0.40	340
SMDWCM3216S-261-2P	260	0.50	310
SMDWCM3216S-601-2P	600	0.80	260
SMDWCM3216S-102-2P	1000	1.00	230
SMDWCM3216S-222-2P	2200	1.20	200

Typical performance curves:





Typical performance curves :



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTLF3922P SERIES

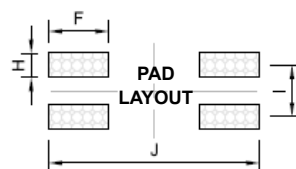
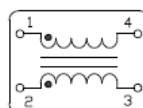
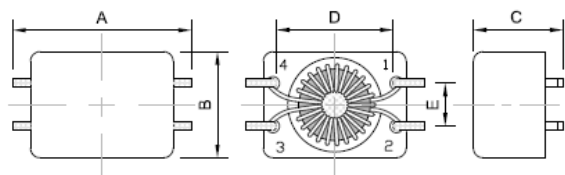
SIGNAL AND DC COMMON-MODE CHOKES COILS.

Applications :

- Signal line
- Digital communication equipment



Shape and Dimensions (Dimensions are in mm) :



Item	A Max	B Max	C Max	D
SMTLF3922P	9.5	6.0	4.9	5.5

Item	E	F	H	I	J
SMTLF3922P	2.5	3.0	1.2	2.5	10.5

Features :

- compact design
- High rated currents, reduced components height.
- Ideal inductors for DC-DC conversion.
- Available on tape and reel for auto surface mounting.

Characteristics :

- Rated Current: The current when temperature of coil Increase up to max. $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Operating temperature : -25°C to 105°C .

Product identification :

SMT LF 3922P - 101 N

(1) (2) (3) (4) (5)

- (1)Type : **Surface Mountable Type** .
- (2) Series :Common mode Line Filter.
- (3) Dimensions :**3922P** is size.
- (4) Inductance: **101** for 100uH
- (5)Inductance tolerance : "**N**" : $\pm 30\%$

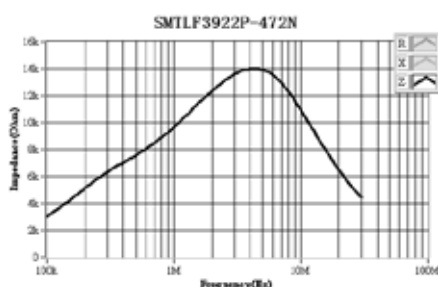
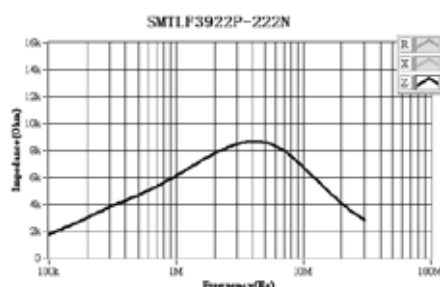
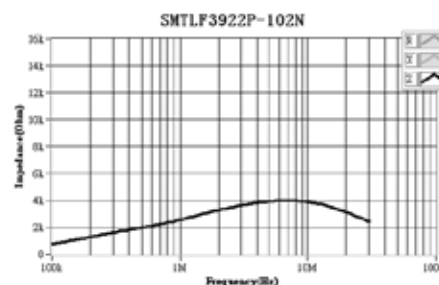
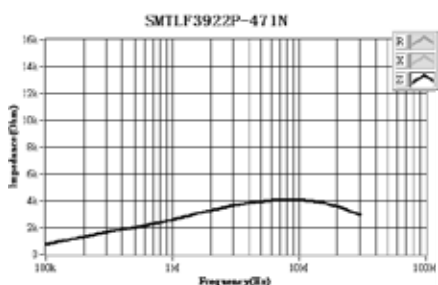
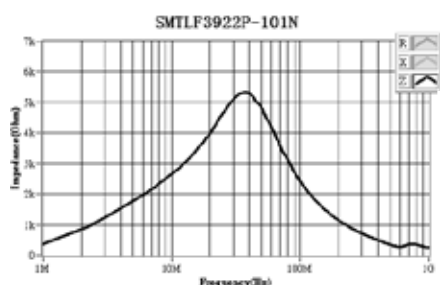
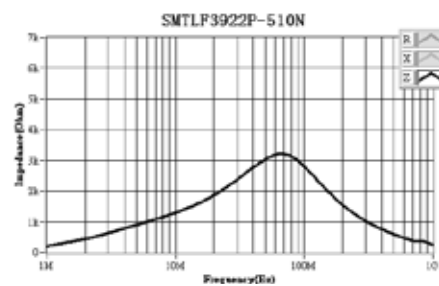
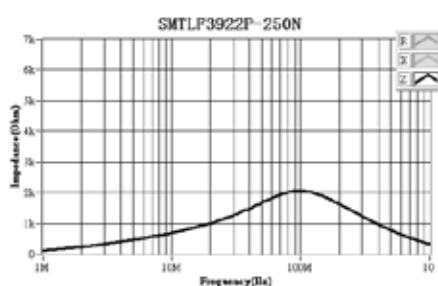
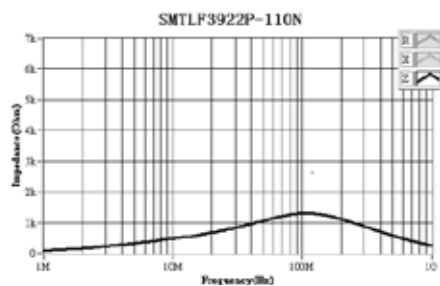
Test equipments :

- L: Agilent E4980 Precision LCR Meter
- DCR: Milli-ohm meter
- Impedance: Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture
- Electrical specifications at 25°C .

● SMTLF3922P series

Part No.	Inductance L (μ H)	Tolerance ($\pm\%$)	Leakage (nH) Typ	Test Freq. KHz	DCR (m Ω) Max.	Rated Current (mA) Max.
SMTLF3922P-110N	11	30	50	100	120	700
SMTLF3922P-250N	25	30	60	100	130	700
SMTLF3922P-510N	51	30	70	100	160	600
SMTLF3922P-101N	100	30	100	100	230	500
SMTLF3922P-471N	470	30	100	100	200	500
SMTLF3922P-102N	1000	+50/-30	70	100	280	500
SMTLF3922P-222N	2200	+50/-30	120	100	480	400
SMTLF3922P-472N	4700	+50/-30	200	100	700	200

Typical performance curves:



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

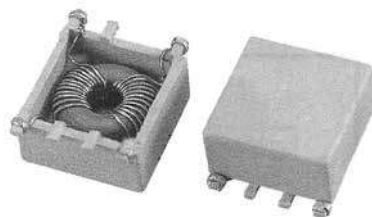


SMTLF632 SERIES

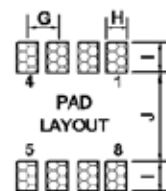
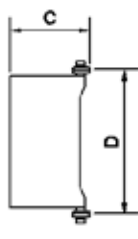
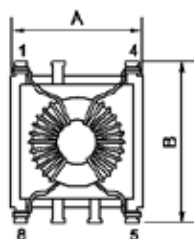
SMT COMMON MODE FILTER.

Applications :

- EMI filters.
- Personal computers.
- Communication equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
SMTLF632	9.1	11.2	5.6	10.0

Item	I	J	G	H
SMTLF632	2.54	7.6	2.54	1.8

Features :

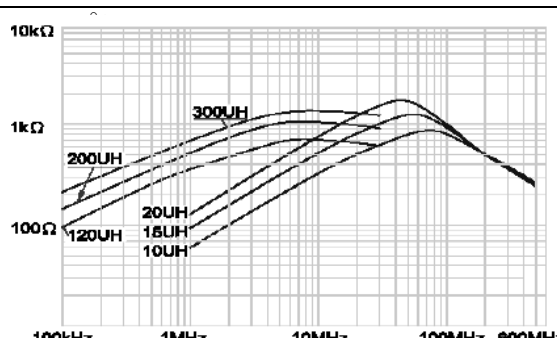
- Compact design.
- Single layer winding for minimum capacitance.
- Meets UL 94V-0 flammability standard.
- Available on tape and reel for auto surface mounting.
- In addition to the standard values shown, 3L can custom engineer parts for specific applications.
- Rated Current : The current when temperature of coil increase up to max. $\Delta T = 40^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)

Product identification :

S M T L F 6 3 2 - 120UH

(1) (2) (3) (4)

- (1) Type : **S**urface **M**ountable Type.
- (2) Style : Common mode **L**ine **F**ilter.
- (3) Core size : **OD**=6.0mm, **ID**=3.0mm, **Ht**=2.0mm.
- (4) Inductance : **120uH**.
- Operating temp. : -25°C to 105°C

Part No.	L1=L2 (uH) $\pm 30\%$	DCR (m Ω) Max.	Rated Current (A)	Impedance to Frequency curve
SMTLF632-10UH	10	25	2.5	 Impedance tested by HP4285A or HP4291B.
SMTLF632-15UH	15	40	2.0	
SMTLF632-20UH	20	70	1.5	
SMTLF632-120UH	120	25	2.5	
SMTLF632-200UH	200	40	2.0	
SMTLF632-300UH	300	70	1.5	

L tested by HP4284A Precision LCR meter @10kHz 10mV, DCR tested by Milli-ohm meter.

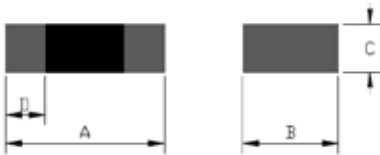
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMB SERIES

MULTILAYER FERRITE CHIP BEADS.

Shape and Dimensions(Dimensions are in mm):

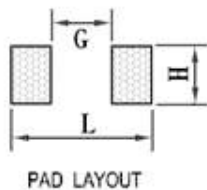


TYPE	A	B	C	D
100505	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10
160808	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.50±0.30

Dimensions Conversion :

Code	Dimension in mm	EIA
100505	1.0X0.5X0.5	0402
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805

Recommended Pattern :



TYPE	G	L	H
100505	0.4	1.2 ~ 1.4	0.5
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Operating Temperature: -55°C ~ 125°C .

Product Identification :

SMB – 160808 – E 2 – 121 A
 (1) (2) (3) (4) (5) (6)

- (1) Product Code
- (2) Dimensions (in mm)
- (3) Design Code
- (4) Material
- (5) Impedance
- (6) Identification for Series

Classifications :

● SMB A-Series Chip Beads

The A-series is designed for general purpose applications. This series covers a wide range of impedance characteristics.

● SMB P-Series Chip Beads

The P-series is designed for high current applications. These chips are suitable for filtering noise near power lines and can match currents to a maximum of 6A DC.

Test equipments :

Z By Agilent E4991A RF Impedance Analyzer with HP16197A Test Fixture.

DCR By milli-ohm meter.

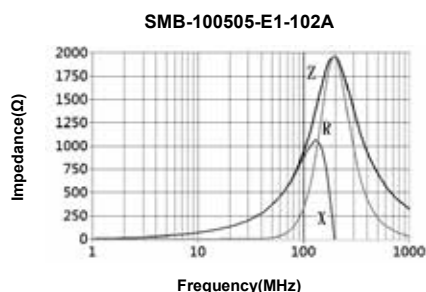
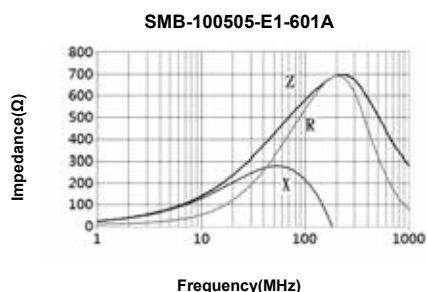
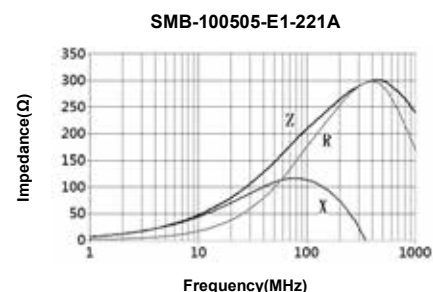
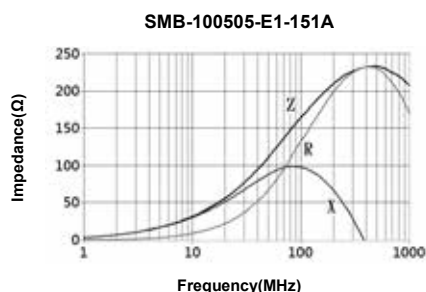
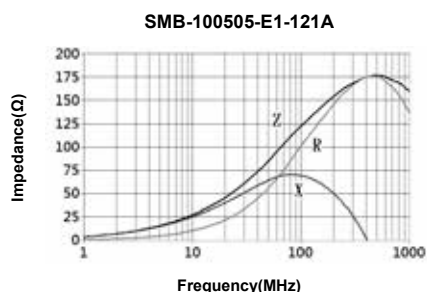
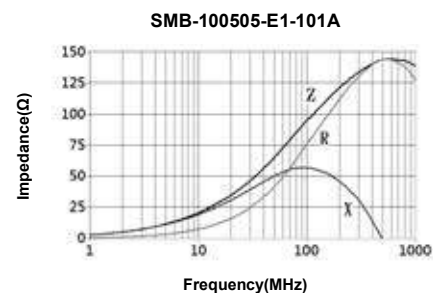
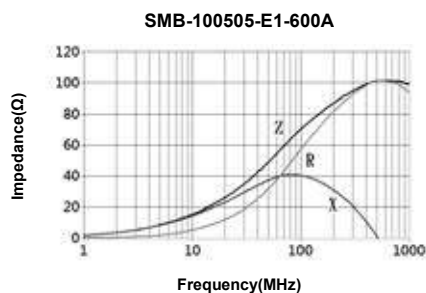
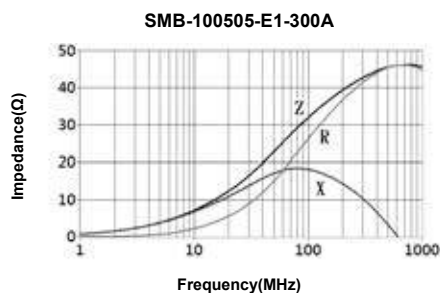


● **SMB- A series (General Circuit Application)**

【SMB-100505 A type】

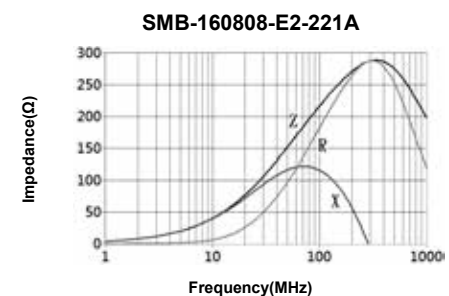
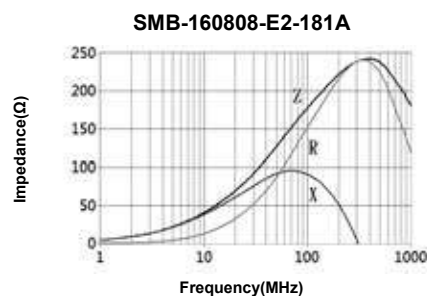
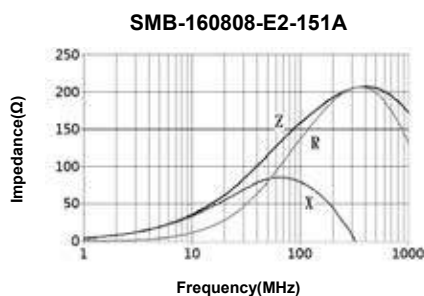
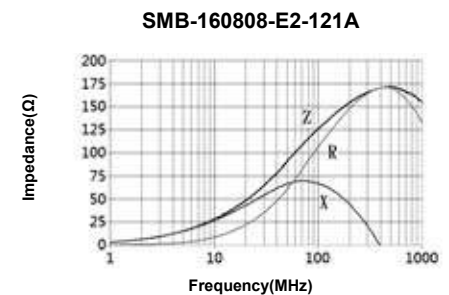
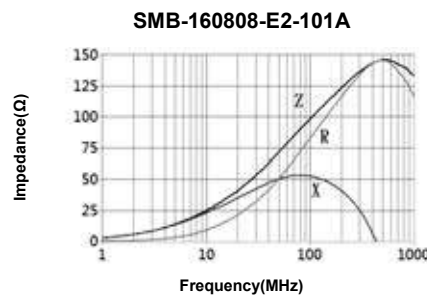
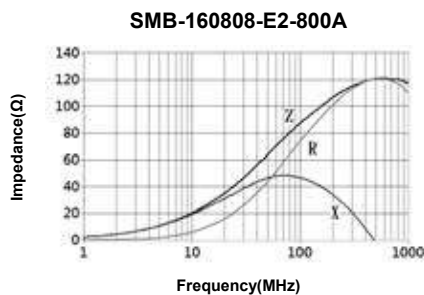
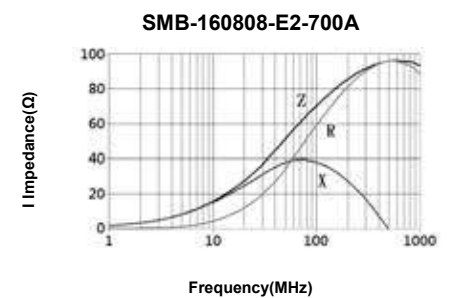
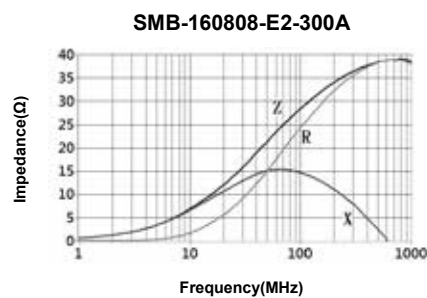
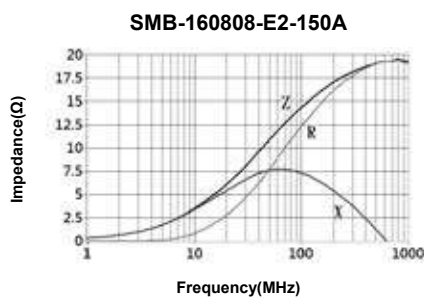
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-100505-E1-300A	30 $\pm$ 25%	0.20	500
SMB-100505-E1-600A	60 $\pm$ 25%	0.20	500
SMB-100505-E1-101A	100 $\pm$ 25%	0.25	500
SMB-100505-E1-121A	120 $\pm$ 25%	0.25	500
SMB-100505-E1-151A	150 $\pm$ 25%	0.40	400
SMB-100505-E1-221A	220 $\pm$ 25%	0.40	400
SMB-100505-E1-601A	600 $\pm$ 25%	0.60	300
SMB-100505-E1-102A	1000 $\pm$ 25%	0.95	200

Typical performance curves :




【SMB-160808 A type】

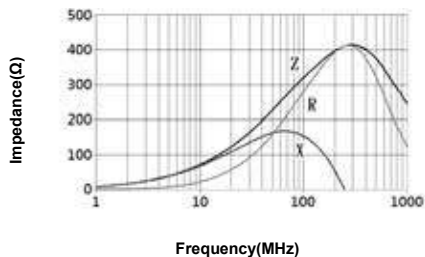
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-150A	15 $\pm$ 25%	0.08	500
SMB-160808-E2-300A	30 $\pm$ 25%	0.10	400
SMB-160808-E2-700A	70 $\pm$ 25%	0.15	400
SMB-160808-E2-800A	80 $\pm$ 25%	0.15	400
SMB-160808-E2-101A	100 $\pm$ 25%	0.20	400
SMB-160808-E2-121A	120 $\pm$ 25%	0.25	400
SMB-160808-E2-151A	150 $\pm$ 25%	0.25	300
SMB-160808-E2-181A	180 $\pm$ 25%	0.30	300
SMB-160808-E2-221A	220 $\pm$ 25%	0.30	300
SMB-160808-E2-301A	300 $\pm$ 25%	0.40	300
SMB-160808-E2-501A	500 $\pm$ 25%	0.50	300
SMB-160808-E2-601A	600 $\pm$ 25%	0.50	300
SMB-160808-E2-801A	800 $\pm$ 25%	0.60	300
SMB-160808-E2-102A	1000 $\pm$ 25%	0.60	300
SMB-160808-E2-122A	1200 $\pm$ 25%	0.60	300
SMB-160808-E2-152A	1500 $\pm$ 25%	0.60	300

Typical electrical curves :


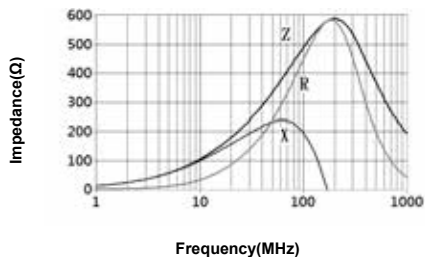


Typical electrical curves :

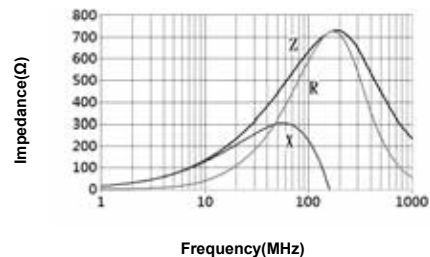
SMB-160808-E2-301A



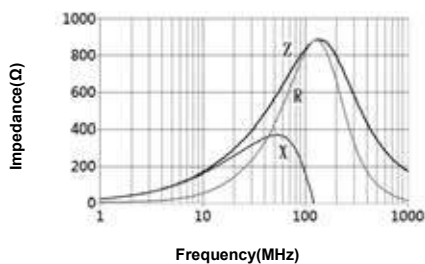
SMB-160808-E2-501A



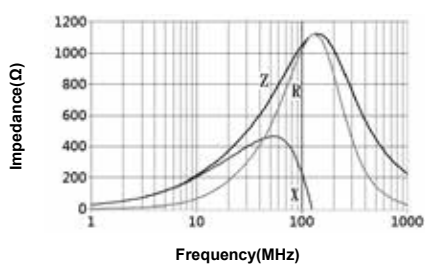
SMB-160808-E2-601A



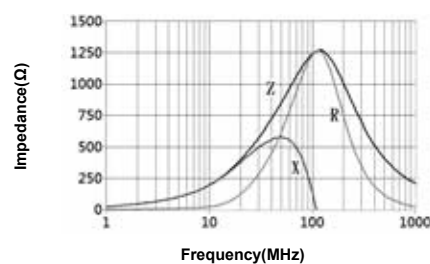
SMB-160808-E2-801A



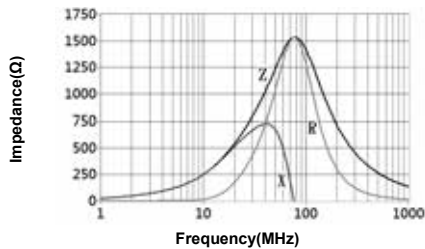
SMB-160808-E2-102A



SMB-160808-E2-122A

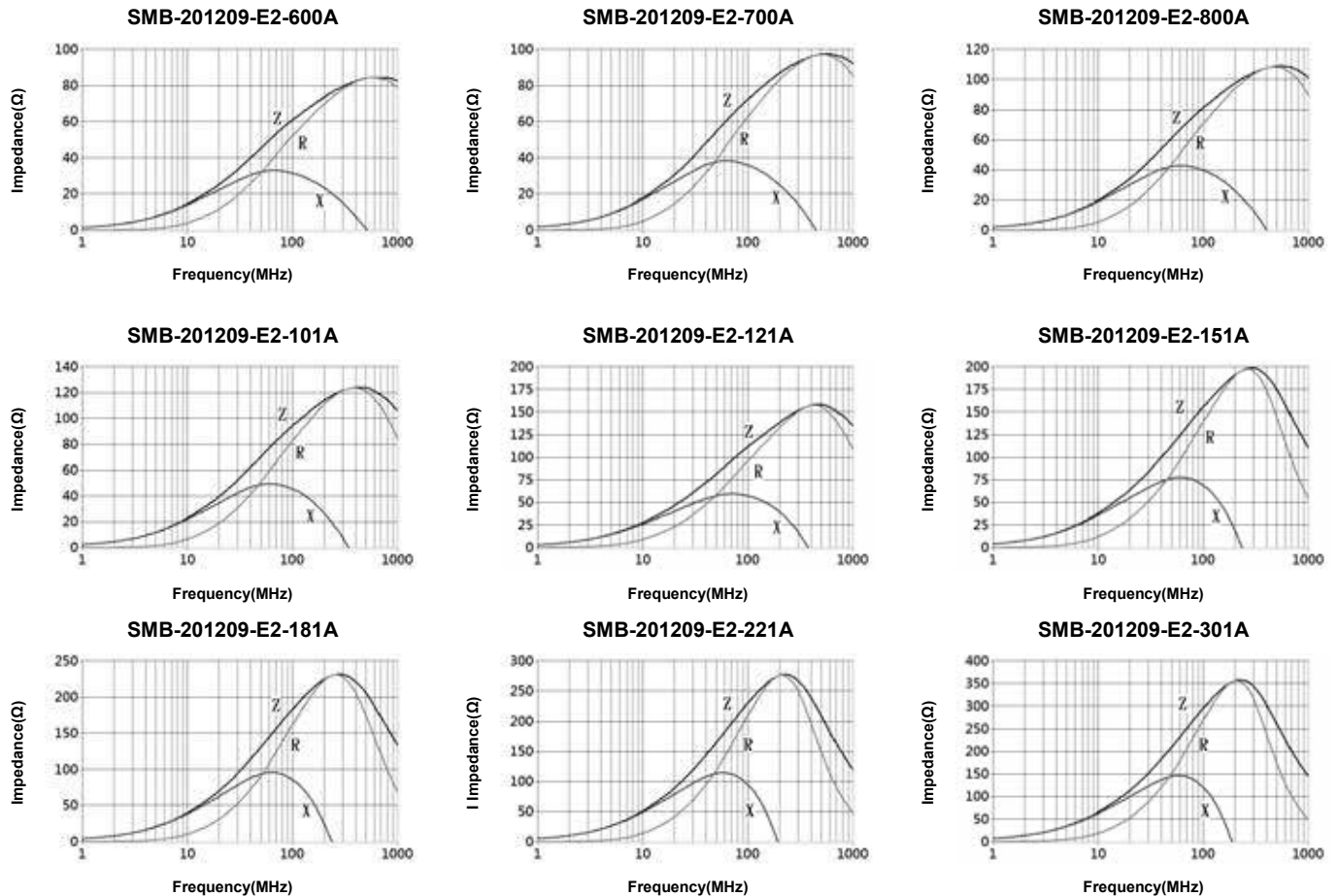


SMB-160808-E2-152A




【SMB-201209 A type】

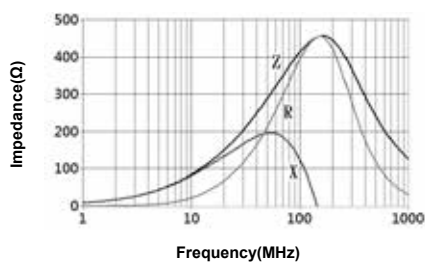
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-600A	60 $\pm$ 25%	0.15	500
SMB-201209-E2-700A	70 $\pm$ 25%	0.15	500
SMB-201209-E2-800A	80 $\pm$ 25%	0.15	500
SMB-201209-E2-101A	100 $\pm$ 25%	0.25	300
SMB-201209-E2-121A	120 $\pm$ 25%	0.25	300
SMB-201209-E2-151A	150 $\pm$ 25%	0.25	300
SMB-201209-E2-181A	180 $\pm$ 25%	0.30	300
SMB-201209-E2-221A	220 $\pm$ 25%	0.30	300
SMB-201209-E2-301A	300 $\pm$ 25%	0.30	300
SMB-201209-E2-401A	400 $\pm$ 25%	0.30	300
SMB-201209-E2-471A	470 $\pm$ 25%	0.40	300
SMB-201209-E2-501A	500 $\pm$ 25%	0.40	300
SMB-201209-E2-601A	600 $\pm$ 25%	0.40	300
SMB-201209-E2-681A	680 $\pm$ 25%	0.40	300
SMB-201209-E2-102A	1000 $\pm$ 25%	0.50	200
SMB-201209-E2-122A	1200 $\pm$ 25%	0.60	200
SMB-201209-E2-152A	1500 $\pm$ 25%	0.60	200
SMB-201209-E2-202A	2000 $\pm$ 25%	0.80	100

Typical electrical curves :


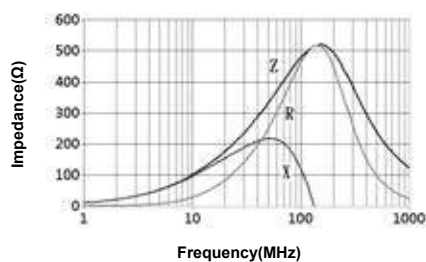


Typical electrical curves :

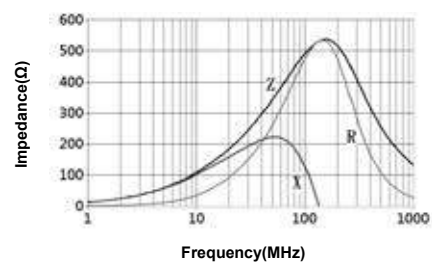
SMB-201209-E2-401A



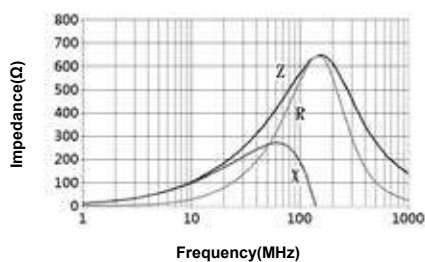
SMB-201209-E2-471A



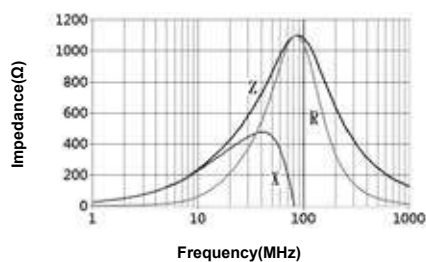
SMB-201209-E2-501A



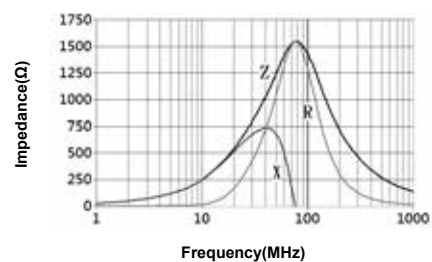
SMB-201209-E2-601A



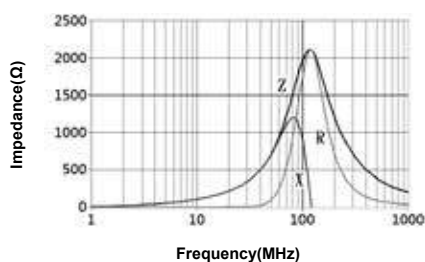
SMB-201209-E2-102A



SMB-201209-E2-152A



SMB-201209-E2-202A



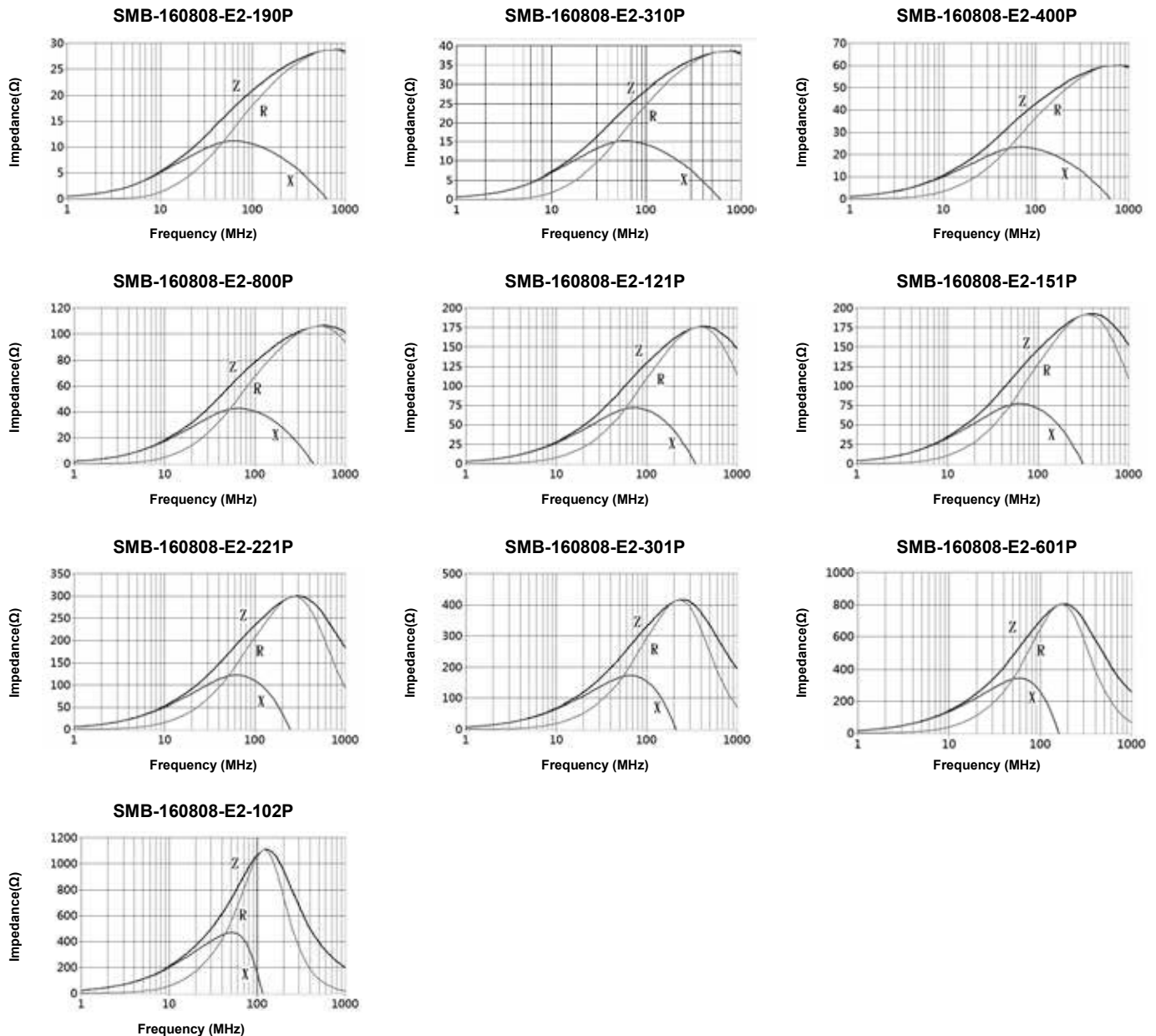
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

● SMB- P series (High Current Application)

【SMB-160808-E2 P type】

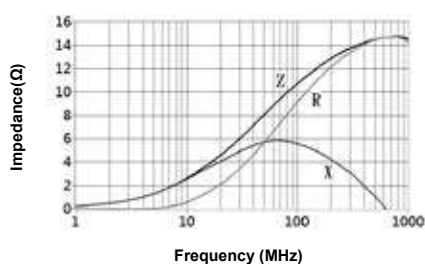
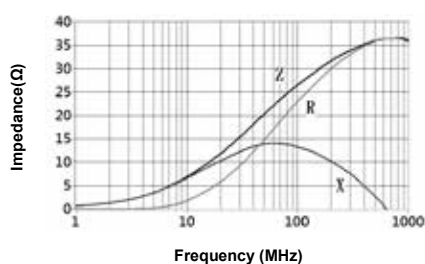
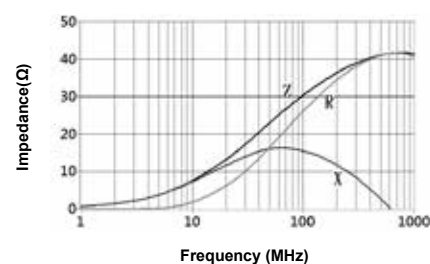
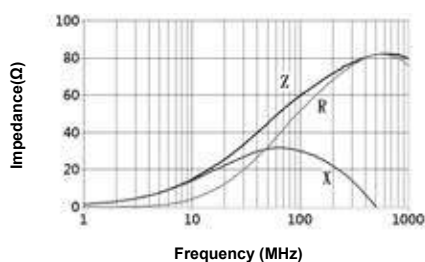
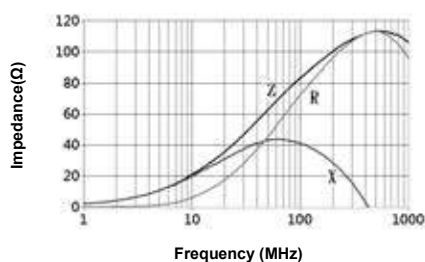
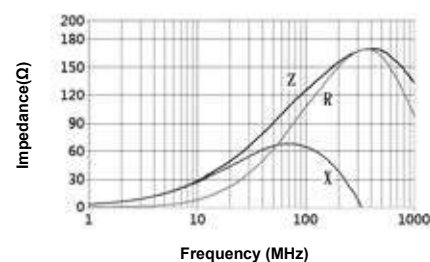
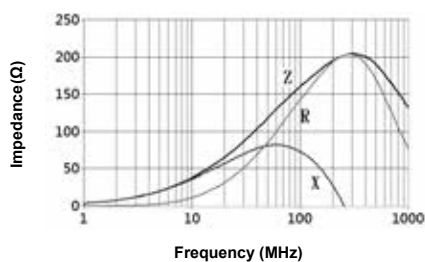
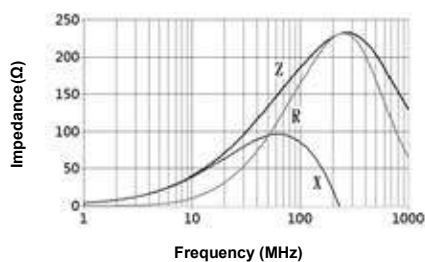
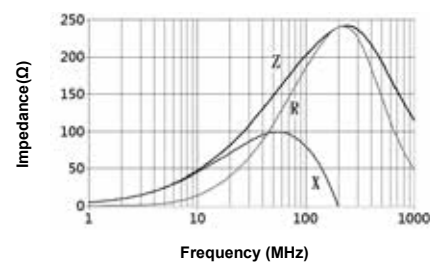
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-190P	19 $\pm$ 25%	0.03	3000
SMB-160808-E2-310P	31 $\pm$ 25%	0.03	3000
SMB-160808-E2-400P	40 $\pm$ 25%	0.035	3000
SMB-160808-E2-800P	80 $\pm$ 25%	0.05	2500
SMB-160808-E2-121P	120 $\pm$ 25%	0.08	2500
SMB-160808-E2-151P	150 $\pm$ 25%	0.085	2000
SMB-160808-E2-221P	220 $\pm$ 25%	0.10	2000
SMB-160808-E2-301P	300 $\pm$ 25%	0.12	1500
SMB-160808-E2-601P	600 $\pm$ 25%	0.20	1000
SMB-160808-E2-102P	1000 $\pm$ 25%	0.25	800

Typical electrical curves :




【SMB-201209 P type】

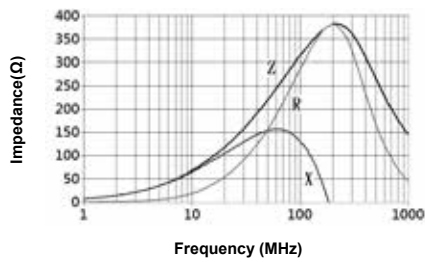
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-110P	11 $\pm$ 25%	0.01	6000
SMB-201209-E2-260P	26 $\pm$ 25%	0.02	4000
SMB-201209-E2-310P	31 $\pm$ 25%	0.02	4000
SMB-201209-E2-600P	60 $\pm$ 25%	0.03	3000
SMB-201209-E2-800P	80 $\pm$ 25%	0.04	3000
SMB-201209-E2-121P	120 $\pm$ 25%	0.04	3000
SMB-201209-E2-151P	150 $\pm$ 25%	0.05	2500
SMB-201209-E2-181P	180 $\pm$ 25%	0.05	2500
SMB-201209-E2-201P	200 $\pm$ 25%	0.05	2500
SMB-201209-E2-301P	300 $\pm$ 25%	0.08	2000
SMB-201209-E2-501P	500 $\pm$ 25%	0.10	2000
SMB-201209-E2-601P	600 $\pm$ 25%	0.10	2000
SMB-201209-E2-102P	1000 $\pm$ 25%	0.12	1500

Typical electrical curves :
SMB-201209-E2-110P

SMB-201209-E2-260P

SMB-201209-E2-310P

SMB-201209-E2-600P

SMB-201209-E2-800P

SMB-201209-E2-121P

SMB-201209-E2-151P

SMB-201209-E2-181P

SMB-201209-E2-201P


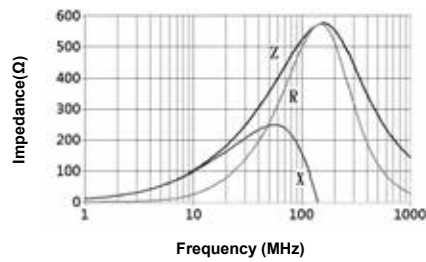


Typical electrical curves :

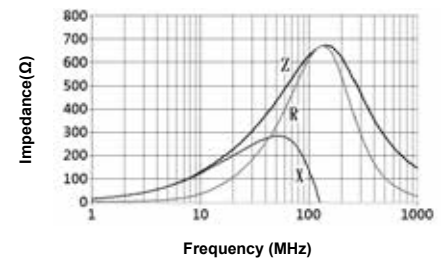
SMB-201209-E2-301P



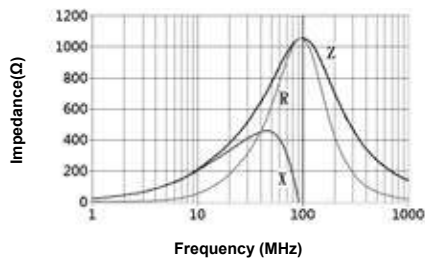
SMB-201209-E2-501P



SMB-201209-E2-601P



SMB-201209-E2-102P



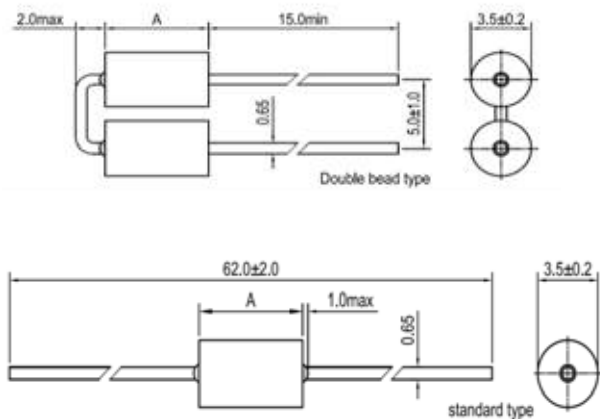
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



WBRH SERIES

WIDE BAND CHOKES.

Shape and Dimensions(unit:mm) :



3L N / P	A
WBRH-3.5X3X0.8	3.0±0.3
WBRH-3.5X4.5X0.8	4.5±0.3
WBRH-3.5X4.7X0.8	4.7±0.3
WBRH-3.5X5X0.8	5.0±0.3
WBRH-3.5X5.25X0.8	5.25±0.3
WBRH-3.5X6X0.8	6.0±0.3
WBRH-3.5X8X0.8	8.0±0.3
WBRH-3.5X9X0.8	9.0±0.3

Applications :

- Filtering of power input pins of oscillators or logic devices using high speed clocks . .
- Filtering of low frequency input / output signals

Features :

- Through hole leaded ferrite bead.
- Most economical component for through hole applications requiring discrete signal filtering.
- Higher current carrying capability than surface mount devices.
- Tape and reel packaging for auto- insertion.

Characteristics :

- Impedance ranges: 40 Ωs to 200Ωs.(@100MHz)
- Frequency ranges : 1MHz to 500MHz.
- Rated current: 3.0 Amps max.
- Operating temperature : -25 °C to 85 °C.

Part No.	Z @25MHz (Ω) Min.	Z @100MHz (Ω) Min.
WBRH-3.5X3X0.8	20	40
WBRH-3.5X4.7X0.8	20	50
WBRH-3.5X5X0.8	30	60
WBRH-3.5X5.25X0.8	30	60
WBRH-3.5X6X0.8	40	60
WBRH-3.5X8X0.8	50	85
WBRH-3.5X9X0.8	60	90
WBRH-3.5X6X0.8X2	80	120
WBRH-3.5X9X0.8X2	100	160

Product Identification :

WBRH - 3.5 X 4.7 X 0.8 - T5

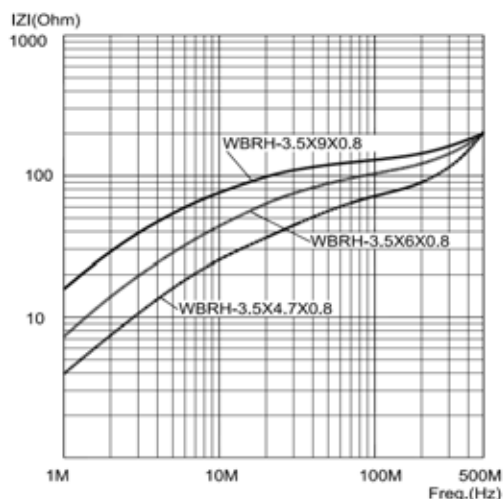
(1) (2) (3) (4) (5)

- Type: **Wide Band** chokes used **RH** type core.
- Core OD: **3.5mm**.
- Core length: **4.7mm**.
- Core ID: **0.8 mm** .
- Package: "**T5**": Tape, or "TF" Tape; No code: Bulk.

Test equipment :

- Impedance: HP4191A RF Impedance Analyzer.
- Electrical specifications at 25°C .

Impedance & Frequency curve





WBRID SERIES

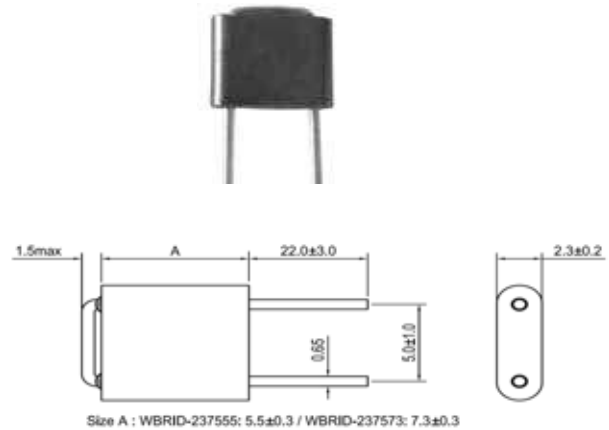
WIDE BAND CHOKES USED RID TYPE CORE.

Applications :

EMI filters

- Wave for Correction of Digital Signals.
- Absorption of High Frequency Noise from data Lines.

Shape and Dimensions(unit:mm) :



Features :

- Low loss ferrite material.
- Easy mounting on PC board.
- Available in a wide range of values and configurations to suit most applications.
- Tape packaging for auto- insertion.

Product Identification :

WBRID - 237555 - H7S - TF8

(1) (2) (3) (4)

(1) Type: **Wide Band** chokes used **RID** type core.

(2) Style: Core size

T=2.3mm; W=7.5mm; L= 5.5mm.

(3) Core material: For **H7S** or equal core.

(4) Packing: Taping; No code: Bulk.

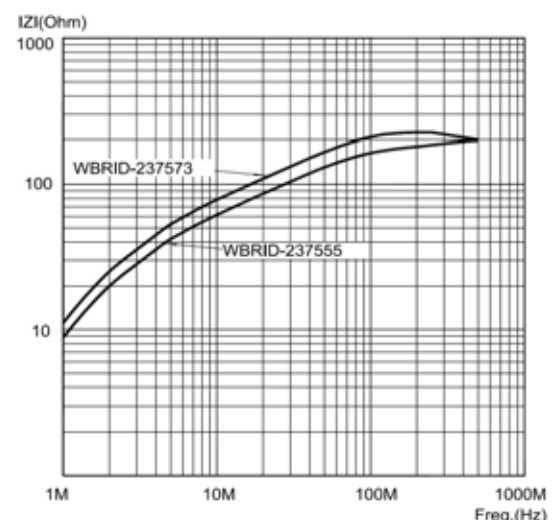
Characteristics :

- Impedance ranges: 120Ωs to 300Ωs.(@100MHz)
- Frequency ranges : 1MHz to 500MHz.
- Rated current : 3.0 Amps max.
- Operating temp. : -25°C to 85°C.

Test equipment :

Impedance: HP4191A RF Impedance analyzer.

Impedance & Frequency curve



Part No.	Z (Ω) Min.		
	25MHz	100MHz	300MHz
WBRID-237555-H7S-TF8	70	120	140
WBRID-237573-H7S-TF8	90	160	165

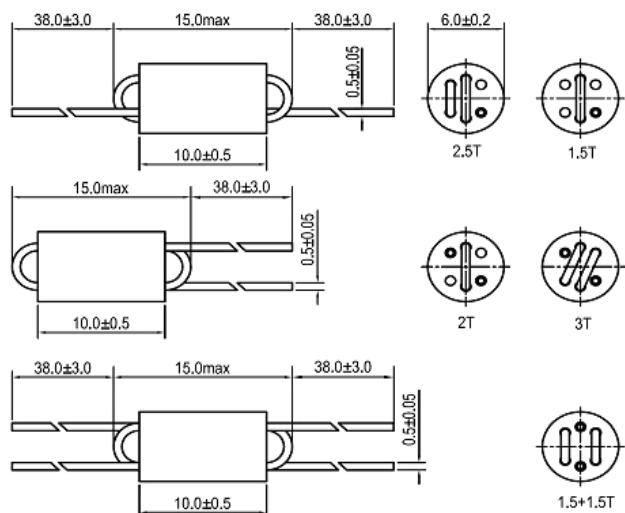
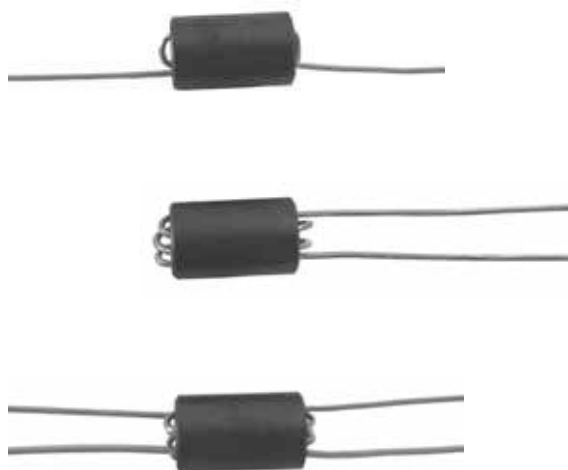
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



WBR6H SERIES

WIDE BAND CHOKES USED R6H TYPE CORE

Shape and size(unit: mm):



Features:

- Compact , medium current (up to 3 Amps) high impedance EMI suppression component.
- Five turns configurations provide the impedance higher than 600 Ω s.

Product Identification:

WBR6H - 2.5T - H6A

(1) (2) (3)

- (1) Type: **Wide Band** chokes used **R6H** type core.
- (2) **Number of turns**.
- (3) Core material: **H6A**; **HGB**; **Y2F**; or equal core.

Characteristics:

- Impedance ranges: 200 Ω to 1500 Ω @100MHz
- Frequency ranges : 1MHz to 300MHz.
- Rated current : 3.0 Amps max.
- Operating temperature : -25 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$.

Test equipment:

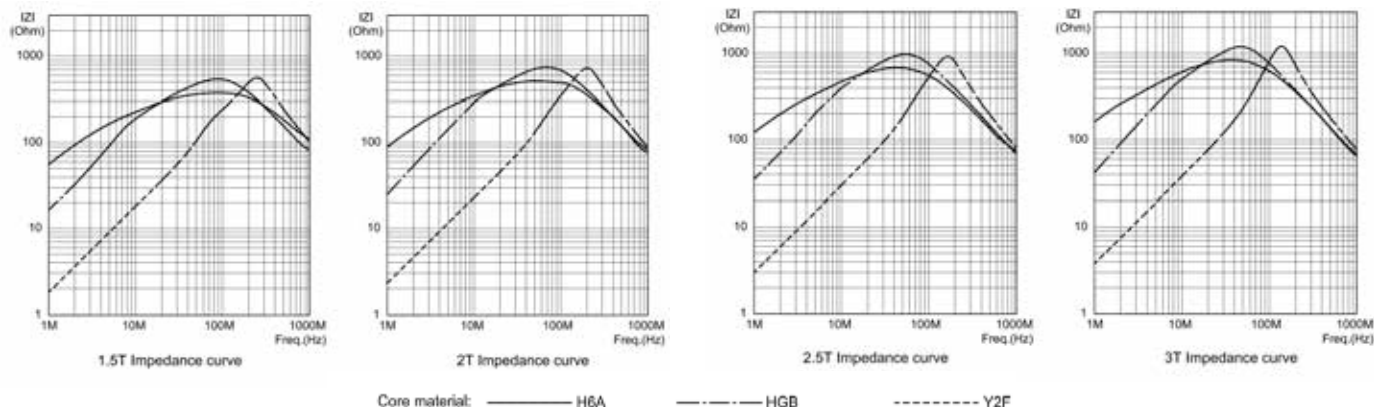
Impedance: HP 4191A RF Impedance Analyzer.

Applications:

- Power and signal filtering.
- High frequency board band transformers (balun core devices).

Turns	Materials	Z(Ω) Min.	Freq.(MHz)
1.5T	H6A	280	120
	HGB	300	180
	Y2F	360	250
2T	H6A	400	50
	HGB	480	100
	Y2F	600	180
2.5T	H6A	600	50
	HGB	600	100
	Y2F	680	180
3T	H6A	680	50
	HGB	680	100
	Y2F	600	180
1.5+1.5T	H6A	600	50
	HGB	600	100
	Y2F	560	180

Impedance & Frequency Curve



LF SERIES

LINE FILTER

Characteristics :

- Rated DC Current: The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Rated voltage: 250VAC.
- Insulation: AC 2000V 1 minute between line & line.
- Insulation Resistance: 100 M Ω Min when DC 500V between line & line.
- Operating temperature : -25°C to 105°C .

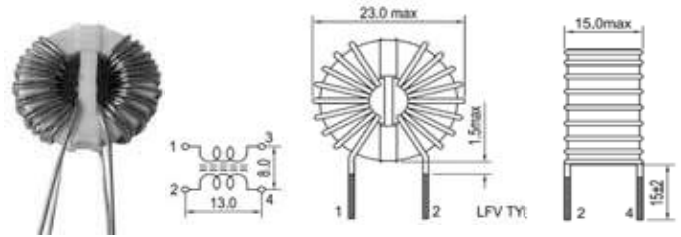
Product Identification :

LF V - 102 U - 2A

(1)(2) (3) (4) (5)

- Type: Line Filter.
- Style: **V**: vertical; **H**: horizontal
U or **T** indicate core type; Others: "**V129**"; "**LV**"; "**LH**"; "**U9.8**"; "**U10**"; "**U16**"; "**UT20**";
- Inductance: **102** for **1000uH**.
- Tolerance: "**U**" means Minimum.
- Rate current: Amp.

Shape and Dimensions(unit:mm) :



Feature :

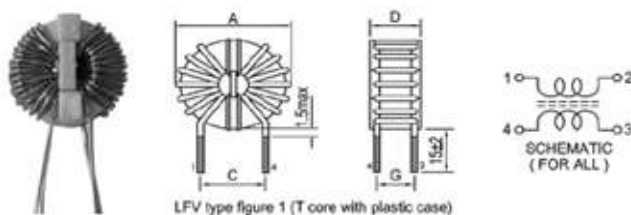
- Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of various electronic equipment.
- High safety and reliability.
- Many configuration available.
- Available as vertically or horizontally mounted.
- Easy PC board mounting.
- Customer's specifications are welcome.

Applications :

- Minimizes noise emissions for conforming to FCC, VCCI, FTZ, CISPR, JTTC and VDE. .
- Applied Equipment: TV, VCR, Switching Power sources, NC machines, Computer systems, Peripheral units and Measuring instruments

LFV series

Shape and Dimensions(unit:mm) :



3L P/N	A max	D max	C	G	Figure
LFV129	17.5	14.5	5 typ	10 typ	Figure 1
LFV	23.0	15.0	13 typ	12 typ	
LFV2208	30.0	15.0	13 typ	12 typ	
LFV2513	34.0	20.0	20 typ	18 typ	
LFV3113	40.0	20.0	20 typ	18 typ	
LFV3715	45.0	23.0	25 typ	20 typ	

Electrical characteristics:

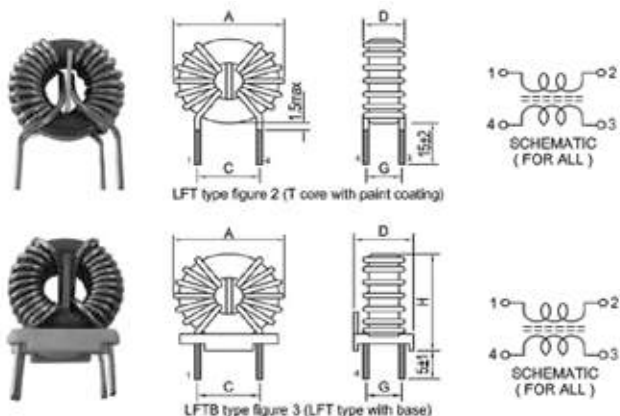
Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFV129-	601U - 1A	0.6	1	60
	601U - 2A	0.6	2	50
	601U - 3A	0.6	3	30
	102U - 1A	1.0	1	70
	102U - 2A	1.0	2	50
	102U - 3A	1.0	3	35
	202U - 1A	2.0	1	100
	202U - 2A	2.0	2	70

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFV129-	302U - 2A	3.0	2	85
	502U - 1A	5.0	1	150
LFV-	102U - 2A	1.0	2	80
	202U - 2A	2.0	2	110
	302U - 2A	3.0	2	150
	502U - 1A	5.0	1	200
	802U - 1A	8.0	1	230
	103U - 1A	10.0	1	260



● LFT/LFTB series

Shape and Dimensions(unit:mm) :



Electrical characteristics:

3L P/N	A max	D max	C	G	Figure
LFT1206	16.0	10.0	10 typ	8 typ	Figure 2
LFT1608	20.0	12.0	13 typ	10 typ	
LFT2208	27.0	12.5	13 typ	10 typ	
LFT2513	30.0	18.0	20 typ	15 typ	
LFT3113	37.0	19.0	20 typ	15 typ	
LFT3715	43.0	21.0	25 typ	18 typ	Figure 3
LFTB1206	17.5	14.5	10.0±1	8.0±1	
LFTB1608	23.0	15.0	15.0±1	10.0±1	
LFTB2208	30.0	16.0	20.3±1	10.2±1	
LFTB2513	34.0	21.0	23.0±1	15.2±1	
LFTB3113	40.0	21.0	23.0±1	15.2±1	
LFTB3715	45.0	24.0	30.5±1	17.8±1	

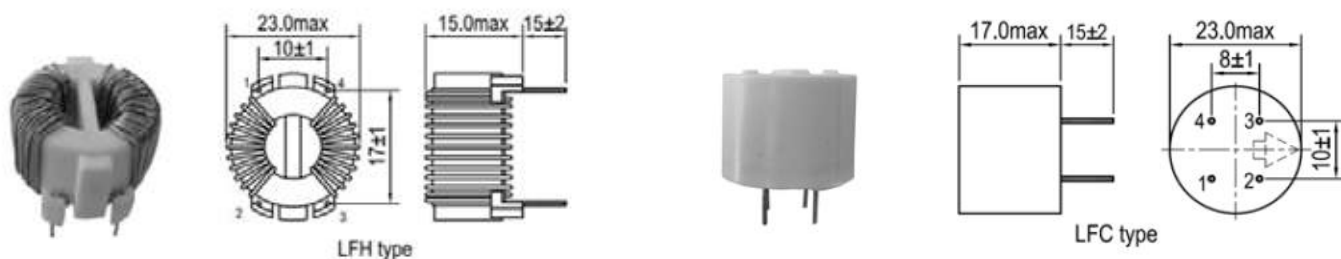
Electrical characteristics:

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFT2208-	601U - 8A	0.60	8	9.1
	102U - 6A	1.0	6	15
	202U - 6A	2.0	6	25
	302U - 5A	3.0	5	35
	502U - 4A	5.0	4	45
	103U - 3A	10.0	3	85
LFT2513-	201U - 15A	0.2	15	5
	601U - 8A	0.6	8	15
	102U - 5A	1.0	5	25
	152U - 5A	1.5	3	30
	302U - 5A	3.0	5	35
	502U - 3A	5.0	3	70

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFT3113-	601U - 15A	0.6	15	7
	102U - 10A	1.0	10	20
	302U - 6A	3.0	6	90
	502U - 5A	5.0	5	100
	103U - 3A	10	3	180
LFT3715-	102U - 15A	1.0	15	8
	332U - 15A	3.3	15	10
	502U - 15A	5.0	15	15
	103U - 10A	10	10	28
	153U - 10A	15	10	33

● LFH/LFC series

Shape and Dimensions(unit:mm) :



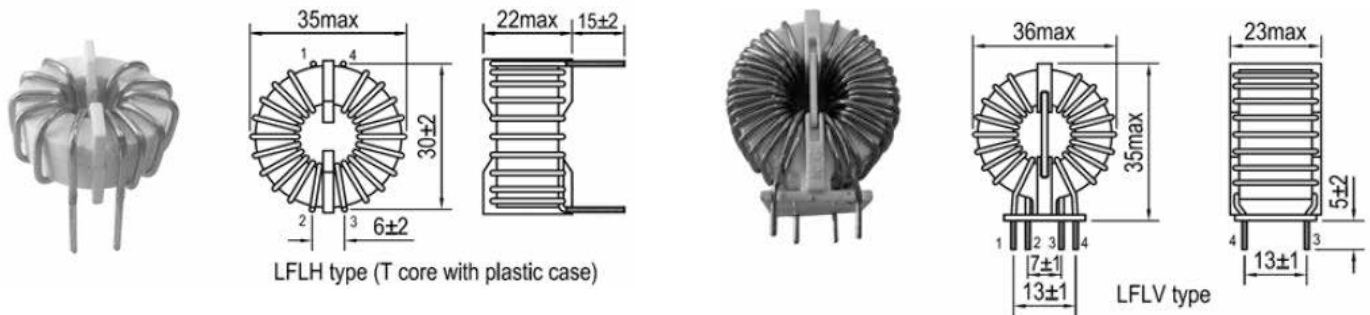
Electrical characteristics :

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFH-	102U- 2A	1.0	2	80
	202U- 2A	2.0	2	110
	302U- 2A	3.0	2	150
	502U- 1A	5.0	1	200
	802U- 1A	8.0	1	230
	103U- 1A	10	1	260

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFC-	301U- 2A	0.3	2	60
	601U- 2A	0.6	2	80
	102U- 2A	1.0	2	100
	152U- 2A	1.5	2	105
	202U- 2A	2.0	2	150
	302U- 2A	3.0	2	180
	552U- 2A	5.5	2	200

● LFLH/LFLV series

Shape and Dimensions(unit:mm) :



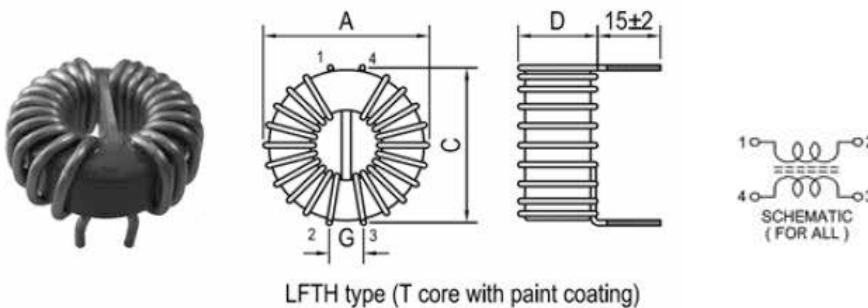
Electrical characteristics :

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFLH-	151U- 12A	0.15	12	8
	301U- 9A	0.3	9	15
	601U- 9A	0.6	9	20
	102U- 3A	1.0	3	50
	302U- 3A	3.0	3	80

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFLV-	152U - 3A	1.5	3	45
	502U - 3A	5.0	3	70
	102U - 5A	1.0	5	25
	302U - 5A	3.0	5	35
	601U - 8A	0.6	8	15
	201U - 15A	0.2	15	5

● LFTH series

Shape and Dimensions(unit:mm) :



3L P/N	A max	D max	C	G
LFTH2208	27.0	13.0	24.0typ	6.0typ
LFTH2508	30.0	13.0	27.0typ	6.0typ

Electrical characteristics:

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFTH2208	601U - 8A	0.6	8	9.1
	102U - 6A	1.0	6	15
	202U - 6A	2.0	6	25
	302U - 5A	3.0	5	35
	502U - 4A	5.0	4	45
	103U - 3A	10	3	85

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (mΩ) Max.
LFTH2508	151U- 12A	0.15	12	8
	301U- 9A	0.3	9	15
	601U- 9A	0.6	9	20
	102U- 3A	1.0	3	50
	302U- 3A	3.0	3	80

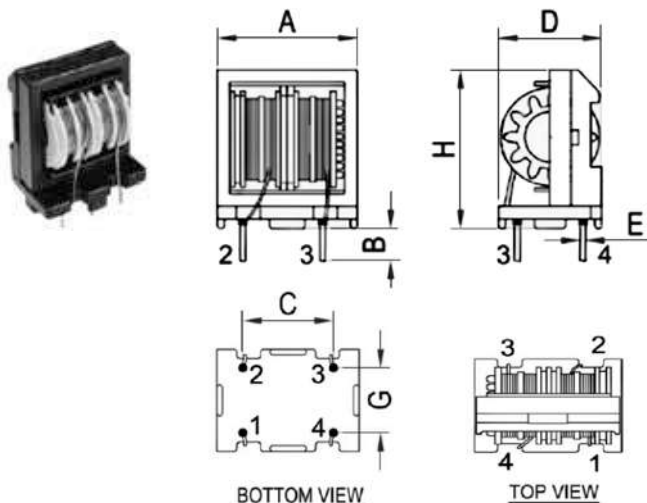
* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



ET SERIES

Line filter using ET core building

Shape and Dimensions(unit:mm):



Item	A	B	C	G	D	H	E
	max	±1.0	±0.5	±0.5	max	max	±0.05
ET24	26.0	4.0	13.0	10.0	19.0	31.5	0.80
ET28	30.5	4.0	13.0	10.0	22.0	36.0	0.80
ET35	37.0	4.0	21.0	15.0	26.0	45.0	1.20

Test equipment and test setup:

- HP4284A PRECISION LCR METER
- CHEN HWA 502BC OHM METER
- 7142 AC/DC withstand/insulation tester.

Applications:

- EMC suppressors.
- AC line filter.

Product Identification:

ET 24 - 242 U - 2.5A

(1) (2) (3) (4) (5)

- (1) Core shape
- (2) Dimensional code.
- (3) Inductance : 242 for 2.4mH
- (4) Inductance tolerance: "U" means Minimum.
- (5) Rate current: Amp.

Feature:

- Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of the various electronic equipment.
- High safety and reliability .
- Closed magnetic circuit.
- Easy PC board mounting.
- Customer's specifications are welcome.

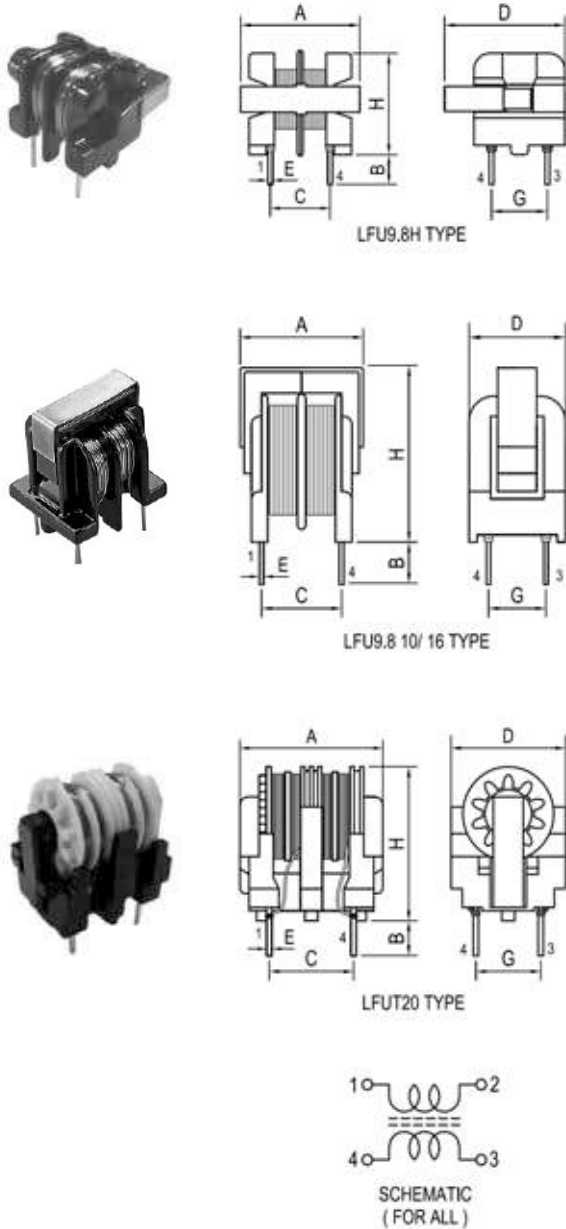
Characteristics:

- Rated Current: The current when temperature of coil increases up to Max. $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)
- Rated voltage: 250VAC.
- Insulation: AC 2000V 1 minute between line & line.
- Insulation Resistance: 100 M Ω Min when DC 500V between line & line.
- Operating temperature : -20°C to 80°C .

PART NO.	L @1kHz min. (mH)	DCR Max. (OHM)	Rated Current (A) Max.	PART NO.	L @1kHz min. (mH)	DCR Max. (OHM)	Rated Current (A) Max.
ET24-242U-2.5A	2.4	0.09	2.5	ET28-802U-2A	8	0.18	2.0
ET24-332U-2A	3.3	0.11	2.0	ET28-123U-1.8A	12	0.27	1.8
ET24-392U-1.8A	3.9	0.15	1.8	ET28-203U-1.5A	20	0.41	1.5
ET24-452U-1.5A	4.5	0.19	1.5	ET28-253U-1.2A	25	0.56	1.2
ET24-103U-1.2A	10	0.38	1.2	ET28-353U-1A	35	0.78	1.0
ET24-203U-1A	20	0.64	1.0	ET35-472U-4A	4.7	0.062	4.0
ET24-253U-0.8A	25	0.88	0.8	ET35-562U-3A	5.6	0.077	3.5
ET24-333U-0.6A	33	1.20	0.6	ET35-822U-3A	8.2	0.105	3.0
ET24-453U-0.5A	45	1.65	0.5	ET35-103U-2.7A	10	0.14	2.7
ET24-683U-0.4A	68	2.30	0.4	ET35-123U-2.5A	12	0.17	2.5
ET28-182U-4A	1.8	0.05	4.0	ET35-153U-2.2A	15	0.21	2.2
ET28-332U-3A	3.3	0.088	3.0	ET35-183U-2A	18	0.23	2.0
ET28-472U-2.8A	4.7	0.10	2.8	ET35-223U-1.8A	22	0.29	1.8
ET28-562U-2.5A	5.6	0.13	2.5	ET35-333U-1.5A	33	0.42	1.5

● **LFU9.8/LFU10/LFU16/LFUT20 series**

Shape and Dimensions(unit:mm) :



3L P/N	A max	B ±1.0	C ±0.5	D max	E ±0.05	G ±0.5	H max
LFU9.8	17.0	4.0	8.0	12.0	0.60	7.0	17.0
LFU9.8H	17.0	4.0	8.0	16.0	0.60	7.0	13.0
LFU10	19.0	4.0	13.0	17.0	0.70	10.0	22.0
LFU16	23.0	4.0	13.0	19.5	0.70	10.0	27.5
LFUT20	22.0	4.0	13.0	17.5	0.80	10.0	23.5

Electrical characteristics :

Part No.		L (mH) Min.	Rated Current (Amp.)	DCR (Ω) Max.
LFU9.8 LFU9.8H	103U- 0.1A	10	0.1	8.0
	802U- 0.2A	8.0	0.2	6.0
	502U- 0.2A	5.0	0.2	4.5
	502U- 0.3A	5.0	0.3	3.5
	202U- 0.5A	2.0	0.5	1.0
	501U- 1A	0.5	1.0	0.3
LFU10-	103U- 0.3A	10.0	0.3	3.0
	502U- 0.3A	5.0	0.3	2.0
	502U- 0.5A	5.0	0.5	1.5
	402U- 0.7A	4.0	0.7	1.0
	302U- 1A	3.0	1.0	0.5
	202U- 1A	2.0	1.0	0.5
	102U- 1A	1.0	1.0	0.4
	102U- 1.3A	1.0	1.3	0.3
	102U- 1.5A	1.0	1.5	0.2
	601U- 2A	0.6	2.0	0.2
LFU16-	303U- 0.4A	30	0.4	2.8
	203U- 0.4A	20	0.4	2.2
	203U- 0.5A	20	0.5	1.6
	103U- 0.6A	10	0.6	1.2
	802U- 0.8A	8.0	0.8	0.8
	602U- 0.8A	6.0	0.8	0.7
	602U- 1A	6.0	1.0	0.5
	402U- 1A	4.0	1.0	0.4
	352U- 1.2A	3.5	1.2	0.3
	252U- 1.2A	2.5	1.2	0.25
	152U- 1.5A	1.5	1.5	0.15
LFUT20-	333U- 0.3A	33	0.3	2.50
	223U- 0.4A	22	0.4	1.70
	153U- 0.5A	15	0.5	1.20
	103U- 0.7A	10	0.7	0.75
	682U- 0.8A	6.8	0.8	0.53
	472U- 1A	4.7	1.0	0.38
	332U- 1A	3.3	1.0	0.31
	222U- 1.2A	2.2	1.2	0.18
	152U- 1.5A	1.5	1.5	0.14
	751U- 1.8A	0.75	1.8	0.12

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



TC/TB SERIES

TOROIDAL COILS.

Applications :

- Power supplies. Switching Circuits.
- SCR and Triac Controls. Output chokes.
- EMI / RFI chokes.
- Other filter .

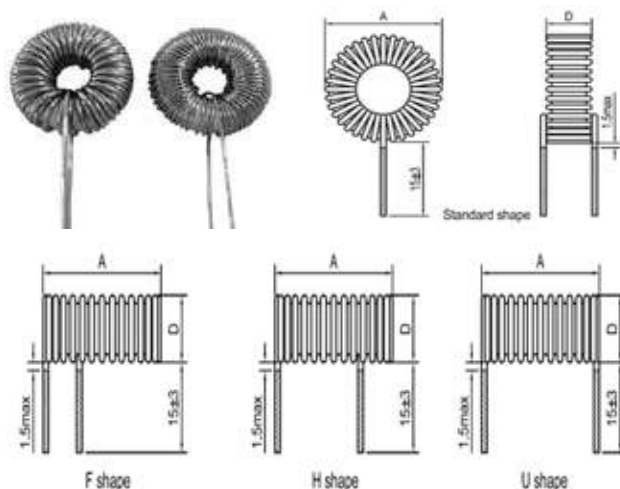
Features :

- Useful in a wide variety of power conversion and line filter applications .
- Cost effective design.
- Low volume hand wound to high volume automatic machine wound.
- 130°C or 155°C UEW-NY wire.
- High saturation current.
- Customer's specifications are welcome.

Characteristics :

- Temperature Rise Current(I_{rms}): The current when when temperature of coil increase up to max.
 $\Delta T = 40^{\circ}\text{C} \text{ (} T_a = 20^{\circ}\text{C)}$
- Operating temperature : -20 °C to 80 °C.

Shape and Dimensions(unit:mm):



Product Identification :

TC - 101 M - 2A - 5026 - F

(1) (2) (3) (4) (5) (6)

(1) Type: Toroidal Coils; "TB": TC with Base;

"TBV"- Vertical; "TBH"- Horizontal

(2) Inductance: Example : **101** for 100 uH

(3) Inductance tolerance: **K** : $\pm 10\%$; **M** : $\pm 20\%$.

(4) Rated current: **2.0**Amps .

(5) Core style : **OD** =0.5"(12.7mm). "**26**" is material.

(6) Shape: "**F. H. U**" shape; No code is standard shape.

Test equipments and test setup :

- L : HP4284A LCR meter or equal.
- L load: HP4284A with HP42841A.
- DCR : Milli- Ω meter .
- Electrical specifications at 25°C.

● TC series

Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I _{rms} (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I _{dc} =0A (uH)	At I _{dc} (uH)			A Max.	D Max.		
TC - 5R0M - 0.5A - 2026	5	4.9	0.007	0.5	7.5	4.5	0.4	Manual
TC - 9R0M - 0.3A - 2026	9	8.8	0.110	0.3	8.0	4.5	0.2	Manual
TC - 150M - 0.5A - 2026	15	13.5	0.070	0.5	7.5	4.5	0.4	Manual
TC - 200M - 0.2A - 2026	20	19.8	0.198	0.2	7.5	4.0	0.2	Manual
TC - 270M - 0.1A - 2026	27	27	0.033	0.1	7.5	4.0	0.2	Manual
TC - 270M - 0.3A - 2026	27	25.5	0.135	0.3	7.5	4.0	0.2	Manual
TC - 100M - 2A - 3026	10	7.7	0.017	2.0	11.0	6.5	1.6	Manual
TC - 120M - 1A - 3026	12	10.7	0.040	1.0	10.5	6.0	1.2	Manual
TC - 320M - 1A - 3026	32	25	0.058	1.0	10.5	6.0	1.4	Manual
TC - 370M - 0.5A - 3026	37	33.7	0.134	0.5	10.0	5.5	1.0	Manual



Part No.	Inductance @ 1kHz		DCR (Ω) Max.	I _{rms} (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At I _{dc} =0A (uH)	At I _{dc} (uH)			A Max.	D Max.		
TC - 141M - 0.5A - 3026	140	107	0.265	0.5	10.0	6.0	1.2	Manual
TC - 8R2M - 2A - 3726	8.2	7.2	0.017	2.0	12.5	6.0	2.0	Manual
TC - 220M - 2A - 3726	22	17	0.030	2.0	14.5	7.5	2.4	Manual
TC - 240M - 1A - 3726	24	22	0.046	1.0	12.0	5.5	1.6	Manual
TC - 560M - 0.5A - 3726	56	53	0.181	0.5	12.5	5.5	1.4	Manual
TC - 680M - 1A - 3726	68	53	0.090	1.0	12.0	6.0	2.0	Manual
TC - 241M - 0.5A - 3726	240	190	0.039	0.5	12.0	6.0	1.6	Manual
TC - 150M - 2A - 4426	15	12.6	0.023	2.0	14.0	7.0	2.8	Manual
TC - 430M - 1A - 4426	43	37	0.074	1.0	14.0	6.5	2.6	Manual
TC - 680M - 2A - 4426	68	42	0.045	2.0	14.5	8.0	3.8	Manual
TC - 111M - 0.5A - 4426	110	100	0.250	0.5	14.0	6.5	2.4	Machine
TC - 141M - 1A - 4426	140	104	0.140	1.0	14.0	7.5	3.2	Machine
TC - 361M - 0.5A - 4426	360	285	0.045	0.5	14.0	6.5	2.8	Machine
TC - 200M - 3A - 5026	20	15	0.021	3.0	16.5	9.0	4.4	Manual
TC - 300M - 2A - 5026	30	25	0.035	2.0	16.0	8.0	4.0	Manual
TC - 600M - 3A - 5026	60	35	0.038	3.0	17.0	9.0	5.8	Manual
TC - 680M - 1A - 5026	68	60	0.101	1.0	16.0	7.5	3.6	Machine
TC - 101M - 2A - 5026	100	63	0.080	2.0	16.0	9.0	5.2	Manual
TC - 221M - 1A - 5026	220	162	0.170	1.0	16.5	8.0	4.4	Machine
TC - 220M - 5A - 6026	22	15	0.013	5.0	21.0	10.5	8.0	Manual
TC - 290M - 4A - 6026	29	20	0.020	4.0	19.0	9.0	7.8	Manual
TC - 350M - 3A - 6026	35	28	0.035	3.0	20.5	10.5	7.6	Manual
TC - 580M - 2A - 6026	58	45	0.050	2.0	19.0	10.0	7.2	Manual
TC - 900M - 3A - 6026	90	52.5	0.044	3.0	20.5	12.5	9.2	Manual
TC - 111M - 2A - 6026	110	79	0.069	2.0	18.5	10.0	8.0	Manual
TC - 131M - 1A - 6026	130	116	0.180	1.0	19.0	9.0	6.4	Machine
TC - 471M - 1A - 6026	470	310	0.350	1.0	19.5	10.0	7.6	Machine
TC - 250M - 5A - 6826	25	18	0.016	5.0	22.0	9.0	9.2	Manual
TC - 320M - 4A - 6826	32	24	0.021	4.0	22.0	9.0	9.0	Manual
TC - 430M - 3A - 6826	43	30	0.028	3.0	21.0	8.5	8.8	Manual
TC - 650M - 4A - 6826	65	55	0.055	2.0	22.0	9.0	8.2	Manual
TC - 111M - 4A - 6826	110	56	0.042	4.0	23.0	11.0	11.4	Manual
TC - 131M - 3A - 6826	130	77	0.055	3.0	23.0	10.5	10.6	Manual
TC - 151M - 1A - 6826	150	137	0.160	1.0	21.5	9.0	7.6	Machine
TC - 231M - 2A - 6826	230	148	0.108	2.0	22.5	9.5	9.8	Machine
TC - 501M - 1A - 6826	500	355	0.300	1.0	22.0	9.0	8.6	Machine
TC - 500M - 5A - 8026	50	33	0.022	5.0	24.5	10.0	14.2	Manual
TC - 600M - 4A - 8026	60	42	0.030	4.0	25.0	11.0	13.7	Manual
TC - 750M - 3A - 8026	75	54	0.039	3.0	24.0	11.0	13.0	Manual
TC - 820M - 3A - 8026	82	60	0.042	3.0	24.0	10.5	13.0	Manual
TC - 101M - 5A - 8026	100	53	0.033	5.0	25.0	11.5	16.8	Manual
TC - 111M - 2A - 8026	110	90	0.074	2.0	25.5	10.0	12.0	Machine
TC - 151M - 5A - 8026	150	68	0.042	5.0	25.0	13.0	18.0	Manual
TC - 221M - 4A - 8026	220	105	0.059	4.0	26.0	13.0	17.9	Manual
TC - 271M - 3A - 8026	270	140	0.100	3.0	27.0	11.5	16.6	Machine
TC - 321M - 2A - 8026	320	193	0.131	2.0	27.0	11.0	14.0	Machine



Part No.	Inductance @ 1kHz		DCR (Ω) Max.	Irms (A) Max.	Dimension (mm)		Weight (Grams) (For Ref.)	Winding method
	At Idc=0A (uH)	At Idc (uH)			A Max.	D Max.		
TC - 431M - 2A - 8026	430	246	0.145	2.0	26.0	11.0	15.0	Machine
TC - 961M - 1A - 8026	960	625	0.450	1.0	26.0	11.0	13.0	Machine
TC - 900M - 5A - 9026	90	54	0.034	5.0	28.0	14.5	23.6	Manual
TC - 141M - 3A - 9026	140	98	0.082	3.0	29.0	13.0	22.0	Machine
TC - 201M - 2A - 9026	200	154	0.114	2.0	28.5	13.0	20.8	Machine
TC - 321M - 5A - 9026	320	120	0.068	5.0	29.0	16.0	29.6	Manual
TC - 451M - 2A - 9026	450	280	0.174	2.0	29.0	14.0	23.0	Machine
TC - 471M - 1A - 9026	470	398	0.354	1.0	26.5	13.0	19.5	Machine
TC - 471M - 3A - 9026	470	225	0.150	3.0	29.5	14.0	27.0	Machine
TC - 182M - 1A - 9026	1800	1130	0.680	1.0	27.5	14.0	22.4	Machine
TC - 820M - 5A - 9426	82	52	0.033	5.0	31.0	15.5	22.4	Manual
TC - 101M - 4A - 9426	100	69	0.042	4.0	29.5	13.5	21.9	Manual
TC - 131M - 3A - 9426	130	96	0.061	3.0	29.0	13.0	21.6	Machine
TC - 221M - 2A - 9426	220	170	0.121	2.0	28.5	12.0	20.6	Machine
TC - 301M - 5A - 9426	300	120	0.064	5.0	30.0	15.5	28.8	Manual
TC - 391M - 4A - 9426	390	165	0.088	4.0	29.5	15.0	27.2	Manual
TC - 471M - 1A - 9426	470	400	0.342	1.0	27.5	11.5	19.0	Machine
TC - 501M - 3A - 9426	500	242	0.124	3.0	31.0	14.5	26.0	Machine
TC - 781M - 2A - 9426	780	428	0.220	2.0	30.0	13.5	24.1	Machine
TC - 132M - 1A - 9426	1300	933	0.585	1.0	28.5	12.5	21.2	Machine
TC - 300M - 10A - 10626	30	21	0.009	10.0	36.0	19.5	42.0	Manual
TC - 350M - 10A - 10626	35	25	0.010	10.0	36.0	19.5	43.0	Manual
TC - 560M - 7A - 10626	56	41.5	0.020	7.0	34.0	18.0	40.0	Manual
TC - 680M - 7A - 10626	68	46	0.021	7.0	34.0	18.0	40.0	Manual
TC - 820M - 7A - 10626	82	53	0.023	7.0	34.0	18.0	41.0	Manual
TC - 101M - 5A - 10626	100	75	0.036	5.0	33.5	17.0	39.0	Manual
TC - 151M - 4A - 10626	150	110	0.053	4.0	32.5	16.5	38.4	Manual
TC - 201M - 3A - 10626	200	157	0.078	3.0	34.0	15.0	37.8	Machine
TC - 301M - 2A - 10626	300	250	0.150	2.0	34.0	15.0	37.8	Machine
TC - 851M - 2A - 10626	850	567	0.300	2.0	35.0	16.5	41.8	Machine
TC - 750M - 10A - 13026	75	43	0.014	10.0	42.0	19.5	64.0	Manual
TC - 131M - 7A - 13026	130	79	0.031	7.0	41.0	18.0	58.0	Manual
TC - 201M - 5A - 13026	200	134	0.056	5.0	39.0	17.0	55.6	Manual
TC - 251M - 10A - 13026	250	105	0.027	10.0	42.5	21.5	82.0	Manual
TC - 471M - 7A - 13026	470	190	0.064	7.0	40.5	19.5	72.0	Manual
TC - 681M - 5A - 13026	680	295	0.105	5.0	39.0	18.5	65.2	Manual

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



TC series

Shape and Dimensions(unit:mm) :

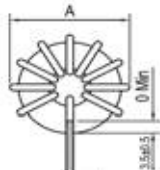


Figure 1 (standard type)

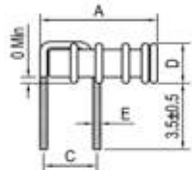


Figure 3 (standard F type)

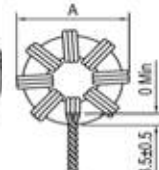


Figure 2 (multiwire type)

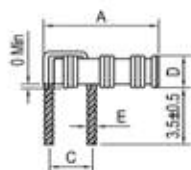


Figure 4 (multiwire F type)

Part No.	L At Idc=0A (uH)	DCR (mΩ) Max.	Rated Current (A) Max.	Dimension (mm)				
				A Max.	C ±1.0	D Max.	E	Fig
TC - R82M - 10A - 3018	0.82	4.2	10	10.5	5.5	6.0	1.0±0.2	2
TC - R60M - 14A - 3818	0.6	2.2	14	13.0	7.0	7.5	1.4±0.2	2
TC - 1R0M - 10A - 3818	1.0	3.3	10	14.0	7.0	8.0	1.4±0.2	2
TC - 1R2M - 14A - 4453	1.2	3.0	14	15.5	5.5	8.0	1.1±0.1	1
TC - 2R2M - 10A - 4453	2.2	4.0	10	15.5	5.5	8.0	1.0±0.1	1
TC - R60M - 25A - 5018	0.6	1.4	25	16.5	7.5	8.0	1.6±0.3	2
TC - 1R2M - 18A - 5018	1.2	1.9	18	16.5	9.0	11.5	1.9±0.3	2
TC - 1R5M - 10A - 5052B	1.5	2.6	10	17.5	8.0	10.0	1.2±0.1	1
TC - 1R6M - 18A - 5053B	1.6	3.0	18	17.5	9.0	10.5	1.9±0.3	2
TC - 1R2M - 20A - 6018 - F	1.2	2.1	20	19.0	6.5	9.5	1.7±0.3	4
TC - 1R2M - 25A - 6053	1.2	1.9	25	19.0	9.0	9.5	1.9±0.3	2
TC - 2R2M - 15A - 6018	2.2	2.7	15	19.0	8.5	9.0	1.8±0.3	2
TC - 3R0M - 10A - 6052 - F	3.0	4.0	10	21.0	5.5	10.0	2.2±0.2	4

·These parts designed for computer main board. / Inductance measuring frequency: @200kHz 0.25V.

·Customer's specifications are welcome.

·Rated Current: Obtained when temperature rise to 40°C and the initial inductance drop by 20%.

● TBV/TBKM/TBH series

Shape and Dimensions(unit:mm) :

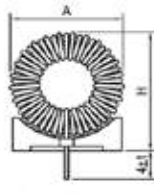


Figure 1 (TBV type, Use plastic or FR4 board base)

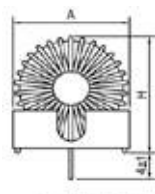
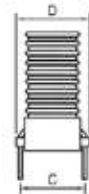


Figure 2 (TBKM type, Use KM series base)

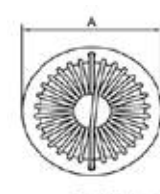


Figure 3 (TBH type, Use FR4 board base)

Part No.	Inductance		DCR (Ω) Max.	Irms (A) Max.	Dimension (mm)				Fig
	At Idc=0A (uH)	At Idc (uH)			A Max.	C ±0.5	D Max.	H Max.	
TBV - 3R3M - 2A - 3826	3.3	3.1	0.010	2.0	13.0	6.0	8.0	14.0	1
TBV - 5R0M - 2A - 3826	5.0	4.8	0.011	2.0	13.0	6.0	8.0	14.0	1
TBV - 200M - 3A - 6826	20.0	17.5	0.026	3.0	22.0	10.0	12.5	24.0	1
TBV - 101M - 3A - 6826	100.0	56.0	0.060	3.0	22.0	10.0	12.5	24.0	1
TBKM - 150M - 2A - 4426	15.0	12.6	0.023	2.0	15.0	5.6	9.0	18.0	2
TBKM - 680M - 2A - 4426	68.0	42.0	0.056	2.0	15.0	5.6	9.0	18.0	2
TBKM - 600M - 3A - 5026B	60.0	41.0	0.038	3.0	17.0	7.6	11.8	20.0	2
TBKM - 101M - 2A - 5026B	100.0	71.0	0.081	2.0	17.0	7.6	11.8	20.0	2
TBKM - 470M - 3A - 6826A	47.0	36.0	0.030	3.0	21.5	7.6	11.8	24.5	2
TBKM - 111M - 4A - 6826A	110.0	46.0	0.042	5.0	21.5	7.6	11.8	24.5	2
TBKM - 680M - 7A - 8026B	68.0	33.0	0.035	5.0	24.5	11.4	15.5	27.5	2
TBKM - 101M - 4A - 8026B	100.0	70.0	0.039	4.0	24.5	11.4	15.5	27.5	2
TBKM - 101M - 5A - 10626	100.0	75.0	0.036	5.0	32.0	12.7	18.2	35.0	2
TBKM - 201M - 3A - 10626	200.0	157.0	0.078	3.0	32.0	12.7	18.2	35.0	2
TBH - 471M - 3A - 9026	470.0	233.0	0.150	3.0	31.0	27.0	16.5		3

·Same overall size available with different material.

·Customer's specifications are welcome.

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



ER15/ER19 SERIES

PLANAR TRANSFORMERS

Applications :

- . Telecommunication power supply.
- . Network power supply.
- . Industrial control power supply.
- . Other occasions for high power density and reliability.

Features :

- . Low height : 7.9mm Max.
- . High application frequency : up to 900KHz
- . Power rating : up to 250W.
- . Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity).
- . Ambient temperature -40°C to +85°C with Irms current, +85°C to +130°C with derated current.
- . Various topologies are available.
- . Dielectric strength: Primary to Secondary & core @1800Vdc.
- . All materials are RoHs compliant..
- . Customized designs are welcome.

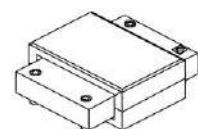


Fig1

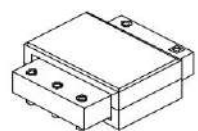
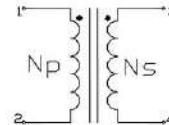
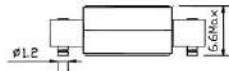
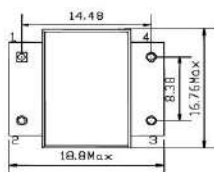


Fig2

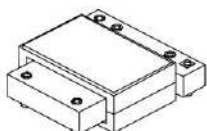
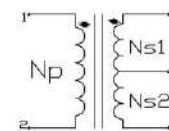
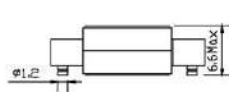
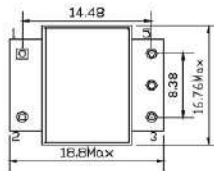


Fig3

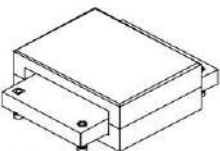
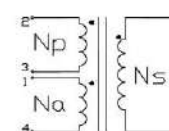
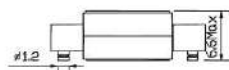
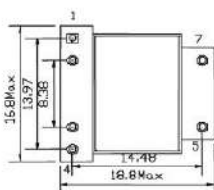


Fig4

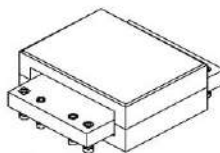
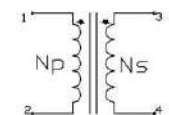
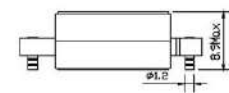
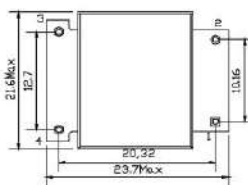
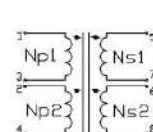
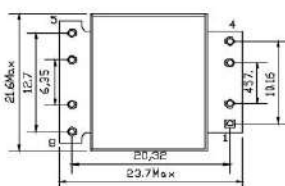


Fig5



* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known..



WPT SERIES

Wireless Charging Coil Assembly

Applications:

Using for transmitter and receiver module of portable electronic device such as mobile phones, tablet PC and DSCs, etc.

Features :

- Qi standard compliance
- Size, shape, characteristics customized
- Low profile
- High mechanical intensity
- High temperature protection design

Product Identification:

WP T 535306 M - 6R3 K - A11

(1) (2) (3) (4) (5) (6) (7)

(1) Wireless Charging Coil Assembly.

(2) Location: **T**: Transmitter

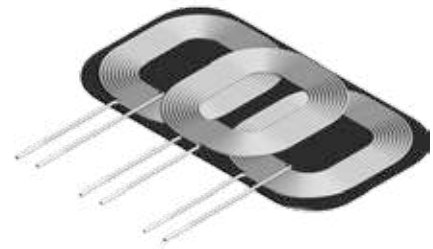
(3) Dimensions: Rectangle (L x W x H): 53x53x6.0mm; Circle (R x H):53x6.0mm.

(4) Automobile special code : **M**: 125°C.

(5) Inductance: 6R3 for 6.3uH.

(6) Inductance tolerance: **K**: $\pm 10\%$.

(7) Qi standard code or other.



Characteristics:

- Operating Temp.: -20°C to 85°C (Common)
- -40°C to 125°C (Automobile)

Test equipment :

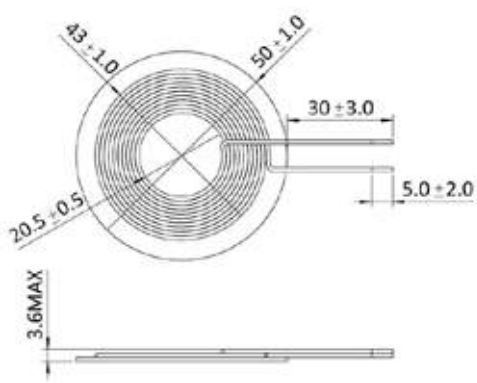
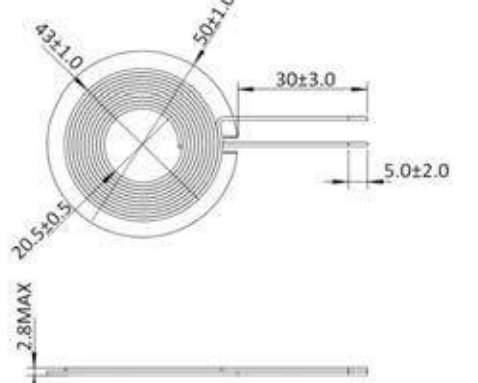
- L: Agilent E4284A WITH HP16047E TEST FIXTURE
- Agilent E4285A WITH HP16047E TEST FIXTURE
- Agilent E4980A Precision LCR Meter
- DCR: Milli-ohm meter
- Electrical specifications at 25°C
- Measuring Frequency : @100kHz 1.0V

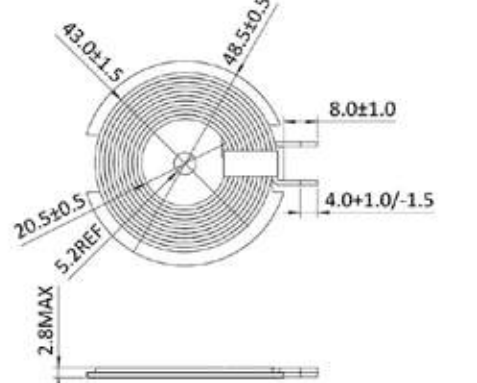
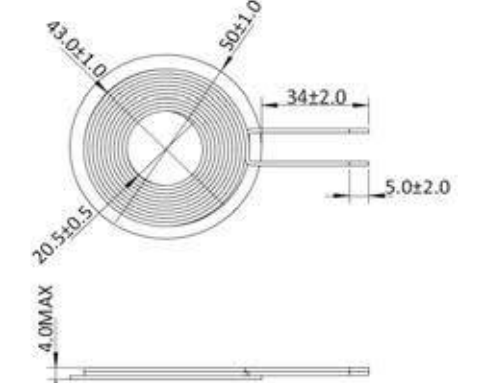
Customized product presentation:

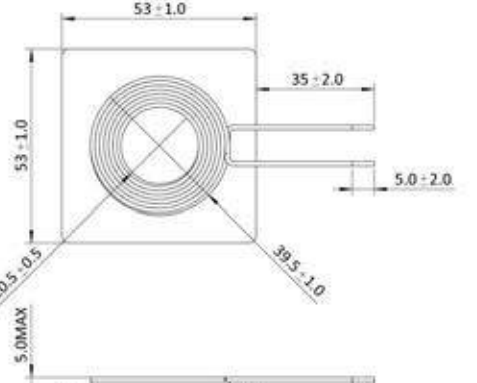
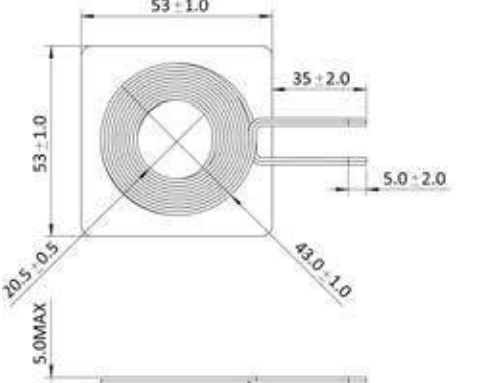
- We can customize wireless charging coil according to Qi standard or your requirements. Please refer to the following feature ranges:

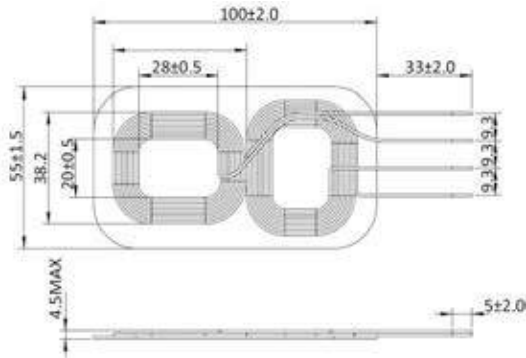
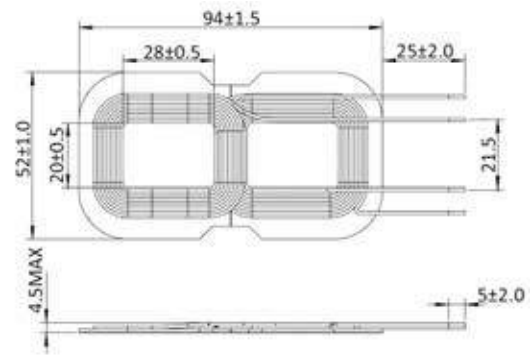
Inductance Range	DC Resistance Range	Dimensions Range	Thickness Range
uH	mΩ	mm	mm
1-100	10-1000	6-200	1.2-10



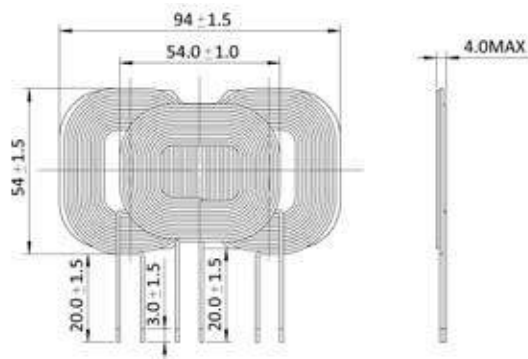
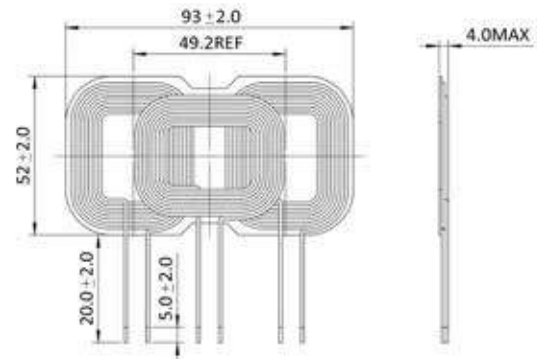
WPT5045-6R3K-A11		WPT5002-6R3K-A11B	
	SIZE(mm): 50X3.6		SIZE(mm): 50X2.8
L (uH) : 6.3+-10%	DCR (mΩ) : 50 max	L (uH) : 6.3+-10%	DCR (mΩ) : 50 max
Turns : 10Ts	Wire : 0.08X105P LIZ	Turns : 10Ts	Wire : . 0.08X105P LIZ

WPT4902-6R3K-A11		WPT5003-240K-A10	
	SIZE(mm): 49X5.2X2.8		SIZE(mm): 50X4.0
L (uH) : 6.3+-10%	DCR (mΩ) : 50 max	L (uH) : 24+-10%	DCR (mΩ) : 90 max
Turns : 10Ts	Wire : 0.08X105P LIZ	Turns : 20Ts (10X2)	Wire : .08X105P LIZ

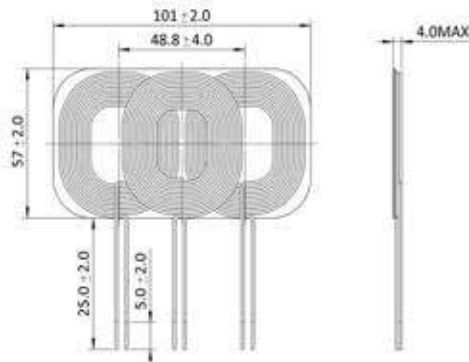
WPT535305-100K-MP-A5		WPT535305-6R3K-A11	
	SIZE(mm): 53X53X5.0		SIZE(mm): 53X53X5.0
L (uH) : 10+-10%	DCR (mΩ) : 40 max	L (uH) : 6.3+-10%	DCR (mΩ) : 25 max
Turns : 13Ts(6.5X2)	Wire : 0.08X105P LIZ	Turns : 10Ts(5X2X2p)	Wire : 0.08X105P LIZ


WPT906035-7R3K-S7

WPT945235-7R1K-A28


L (uH)	7.3+-10%	L (uH)	7.1+-10%
DCR (mΩ)	100 max	DCR (mΩ)	70 max
Turns	9Ts: 9Ts	Turns	9Ts: 9Ts
Wire	0.07X100P LIZ	Wire	0.08X105P LIZ

WPT935204-120K-A28

WPT935204-7R0K-A6


L(Upper)	11.5uH +- 10%	L(Upper)	6.5uH +- 10%
L(Lower)	12.5uH+-10%	L(Lower)	7.0uH+-10%
DCR	70mΩ max	DCR	50mΩ max
Turns Upper	12Ts Wire : 0.08mm X 105P	Turns Upper	9Ts Wire : 0.08mm X 105P
Turns Lower	12Ts Wire : 0.08mm X 105P	Turns Lower	9Ts Wire : 0.08mm X 105P

WPT1015704-10R2K-A9


L(Upper)	9.8uH +- 10%
L(Lower)	10.2uH +- 10%
DCR Upper	60mΩ max
DCR Lower	65mΩ max
Turns Upper	11Ts Wire : 0.06mm X 200P
Turns Lower	12Ts Wire : 0.06mm X 200P

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



SMTEE4.4 SERIES

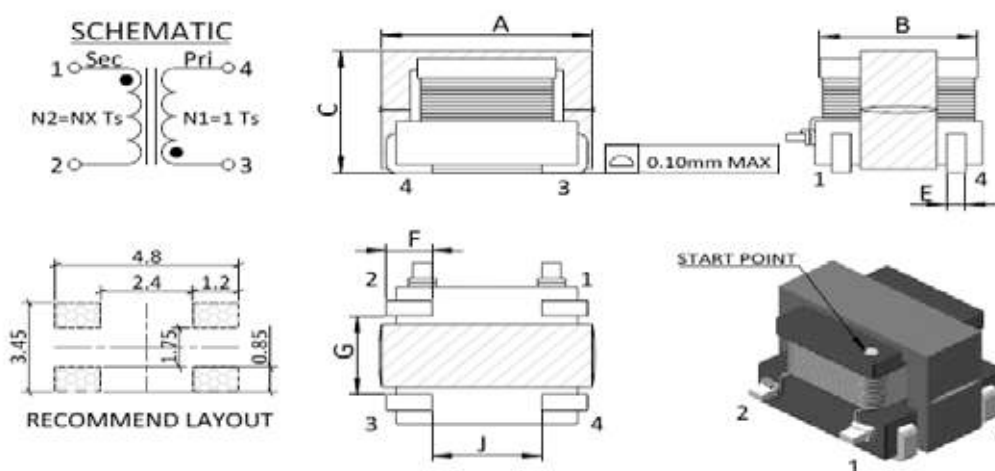
SMT CURRENT SENSE TRANSFORMERS

Applications :

- Switching power supplies
- Feedback control
- Overload sensing.
- Load drop/shut down detection.



Shape and Dimensions (Dimensions are in mm) :



Item	A MAX.	B MAX.	C MAX.	E	Item	F	G	J
SMTEE4.4	4.80	3.65	3.55	0.40 REF	SMTEE4.4	0.85 REF	2.10 REF	2.50 REF

Features :

- Very low DC resistance
- Different turns ratios
- Very small package
- RoHS compatible.
- Sensed Current – primary rated for 7 Amps.

Characteristics :

- Primary current of 7 A causes less than 40°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise.
- Operating temperature : -40°C to 125°C.

Frequency range : SMTEE4.4 @50KHz TO 1MHz.

Product Identification :

SMT EE4.4 - 50T - 1T

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type**.
- (2) Style: **EE** Core with , **4.4** is size.
- (3) Secondary Turn: 50Ts:
- (4) Primary Turn: 1Ts.

Test equipments:

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.



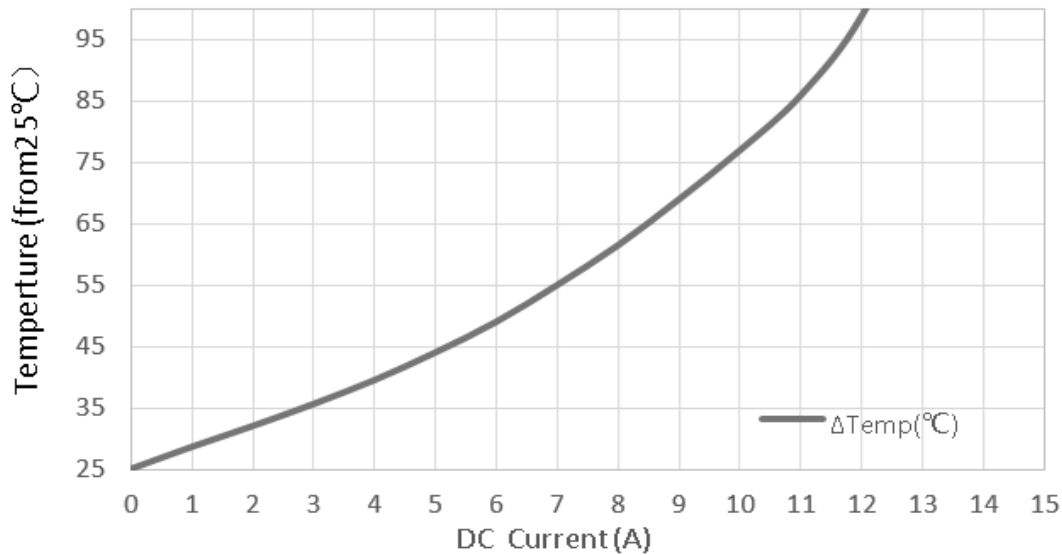
● SMTEE4.4 series

Part No.	Turns ratio Sec: Pri	Secondary Inductance @100KHz 0.1V (uH)MIN	DCR		Hi-pot Pri-Sec @2mA 3S 50Hz	Sensed Current (Max) (A)
			Sec MAX (Ω)	Pri REF (mΩ)		
SMTEE4.4-20T-1T	20:1	33	0.35	3.0	500V AC	7.0
SMTEE4.4-30T-1T	30:1	74	0.80	3.0	500V AC	7.0
SMTEE4.4-40T-1T	40:1	132	1.6	3.0	500V AC	7.0
SMTEE4.4-50T-1T	50:1	205	2.5	3.0	500V AC	7.0
SMTEE4.4-60T-1T	60:1	295	3.6	3.0	500V AC	7.0
SMTEE4.4-70T-1T	70:1	400	4.6	3.0	500V AC	7.0
SMTEE4.4-100T-1T	100:1	820	9.5	3.0	500V AC	7.0
SMTEE4.4-125T-1T	125:1	1280	13.0	3.0	500V AC	7.0
SMTEE4.4-150T-1T	150:1	1800	21.0	3.0	500V AC	7.0

Note 1: Referenced ambient temperature 25°C

Typical performance curves

Temperature rise vs DC Current Curve





SMTEE4.6 SERIES

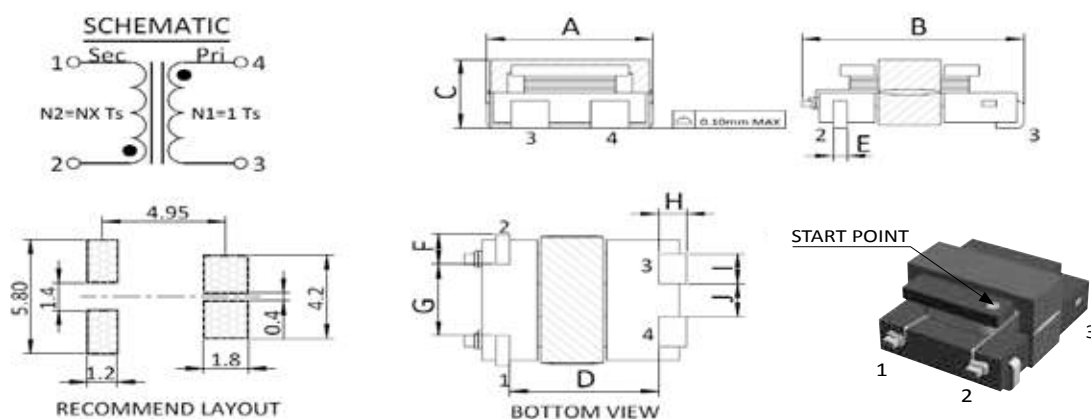
SMT CURRENT SENSE TRANSFORMERS

Applications :

- Switching power supplies
- Feedback control
- Overload sensing.
- Load drop/shut down detection



Shape and Dimensions (Dimensions are in mm) :



Item	A MAX	B MAX	C MAX	D±0.3	E±0.15	F±0.2	G±0.2	H±0.2	I±0.2	J±0.2
SMTEE4.6	5.20	7.20	3.00	4.05	0.4	1.1	2.6	1.2	1.1	1.2

Features :

- Very low DC resistance
- Different turns ratios
- Very small package
- RoHS compatible.
- Sensed Current – primary rated for 9 Amps.

Product Identification :

SMT EE 4.6 - 50T - 1T

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type.**
- (2) Style: **EE Core with 4.6 is size.**
- (3) Secondary Turn: 50Ts:
- (4) Primary Turn : 1Ts.

Characteristics :

- Primary current of 9A causes less than 40°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- Operating temperature : -40°C to 125°C.

Frequency range : SMTEE4.6 @50KHz TO 1MHz.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.

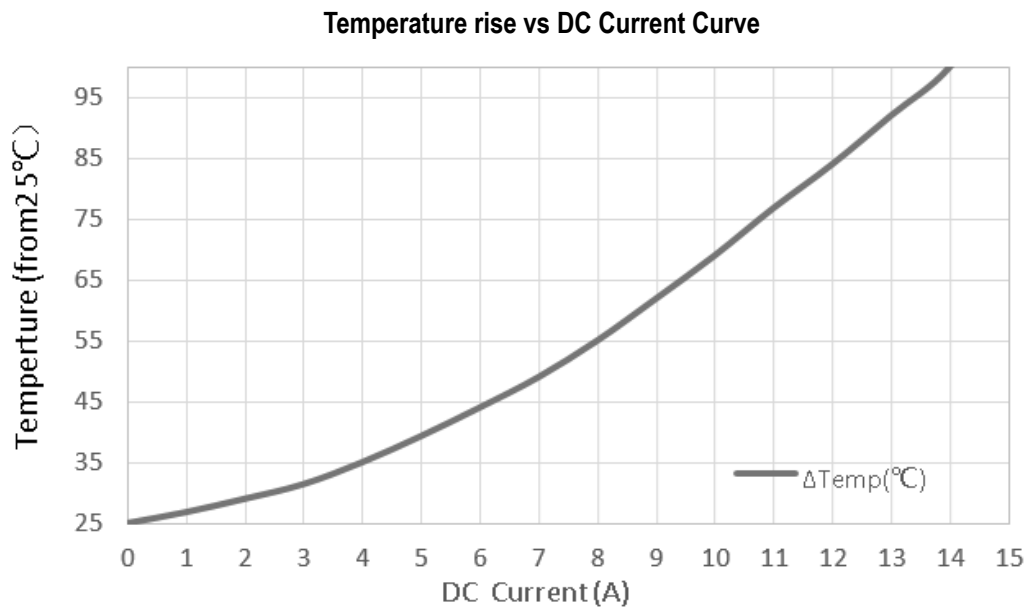


● SMTEE4.6 series

Part No.	Turns ratio Sec: Pri	Secondary Inductance @100KHZ0.1V (mH)MIN	DCR		Hi-pot Pri-Sec @2mA 3S 50Hz	Sensed Current (Max) (A)
			Sec MAX (Ω)	Pri REF (m Ω)		
SMTEE4.6-20T-1T	20:1	0.053	0.42	1.5	500V AC	9.0
SMTEE4.6-50T-1T	50:1	0.333	2.76	1.5	500V AC	9.0
SMTEE4.6-70T-1T	70:1	0.652	5.04	1.5	500V AC	9.0
SMTEE4.6-100T-1T	100:1	1.330	10.68	1.5	500V AC	9.0
SMTEE4.6-150T-1T	150:1	2.993	22.30	1.5	500V AC	9.0

Note 1: Referenced ambient temperature 25°C

Typical performance curves



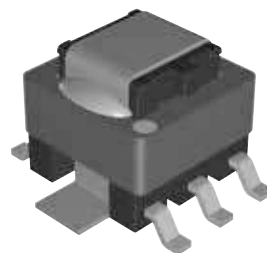


SMTEE5.0 SERIES

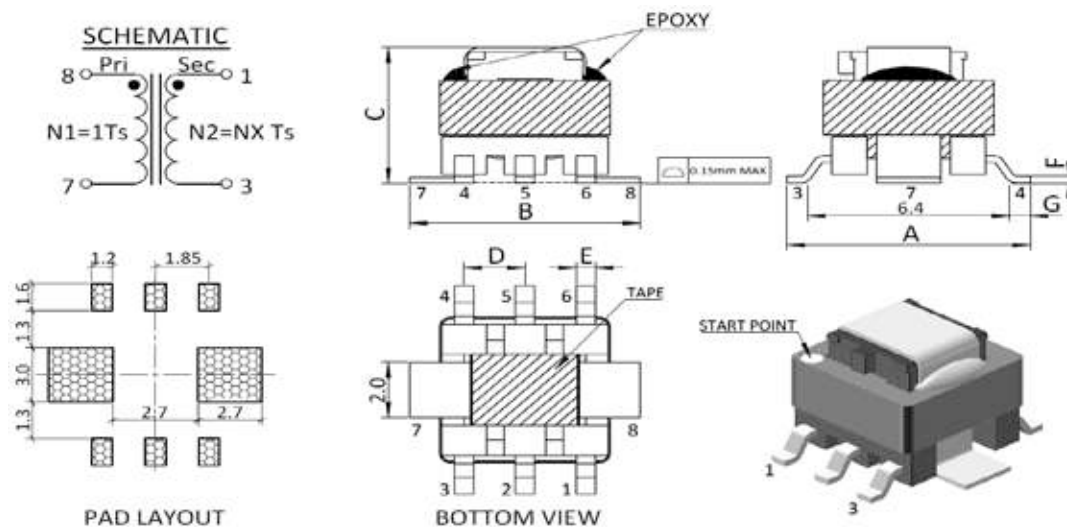
High Frequency Current Sensing Transformers

Applications :

- Switching power supplies
- Feedback control.
- Overload sensing.
- Load drop/shut down detection.



Shape and Dimensions (Dimensions are in mm) :



Item	A MAX	B MAX	C MAX	Item	D	E	F	G
SMTEE5.0	8.38	8.00	5.5	SMTEE5.0	1.85±0.3	0.6±0.1	0.25±0.2	0.7±0.2

Features :

- Very low DC resistance.
- Different turns ratios.
- Designed for automatic pick and place.
- RoHS compatible.
- Sensed Current – primary rated for 10 Amps.

Product Identification :

SMT EE5.0 – 100T - 1T

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type**.
- (2) Style: **EE Core, 5.0** is size.
- (3) Secondary turns : **100T**
- (4) The primary turns : **1T**

Characteristics :

- Primary current of 10A causes less than 40°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- Operating temperature : -40°C to 125°C.

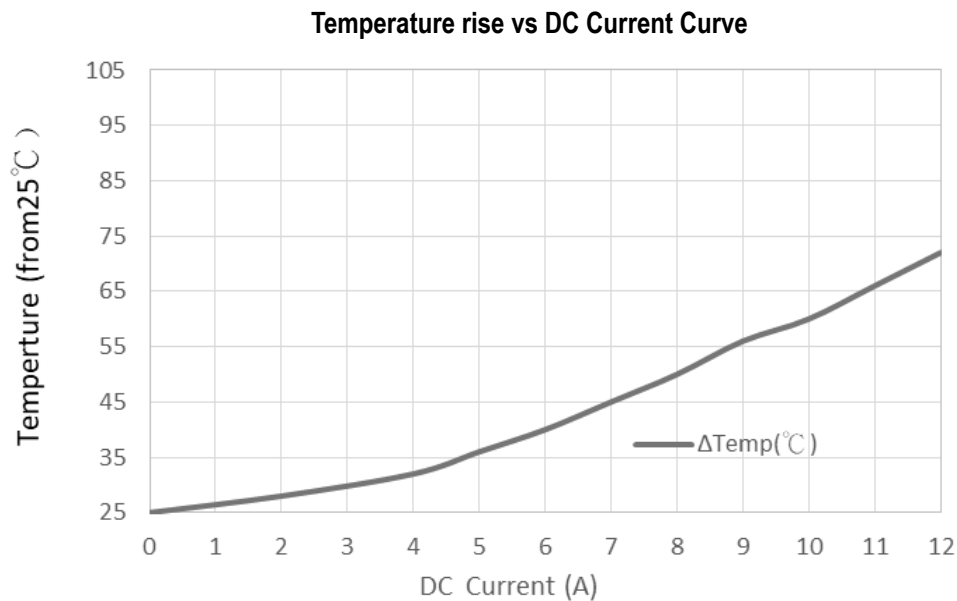
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.

Frequency range : SMTEE5.0 @50KHz TO 1MHz.

**● SMTEE5.0 series**

Part No.	Turns ratio Sec: Pri	Secondary Inductance @100KHZ 0.1V (uH)MIN	DCR		Hi-pot Pri-Sec @0.5mA 3S 50Hz	Primary Current (Max) (A)
			Sec Max (Ω)	Pri REF (m Ω)		
SMTEE5.0-20T-1T	20:1	80	0.40	0.70	500V AC	10
SMTEE5.0-30T-1T	30:1	180	0.87	0.70	500V AC	10
SMTEE5.0-40T-1T	40:1	320	1.14	0.70	500V AC	10
SMTEE5.0-50T-1T	50:1	500	1.85	0.70	500V AC	10
SMTEE5.0-60T-1T	60:1	730	2.30	0.70	500V AC	10
SMTEE5.0-70T-1T	70:1	980	4.75	0.70	500V AC	10
SMTEE5.0-100T-1T	100:1	2000	5.50	0.70	500V AC	10
SMTEE5.0-125T-1T	125:1	3000	11.50	0.70	500V AC	10

Note 1: Referenced ambient temperature 25°C**Typical performance curves**

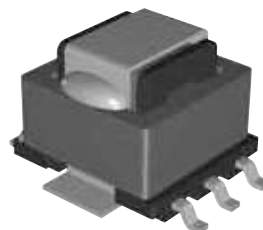


SMTEE8.3 SERIES

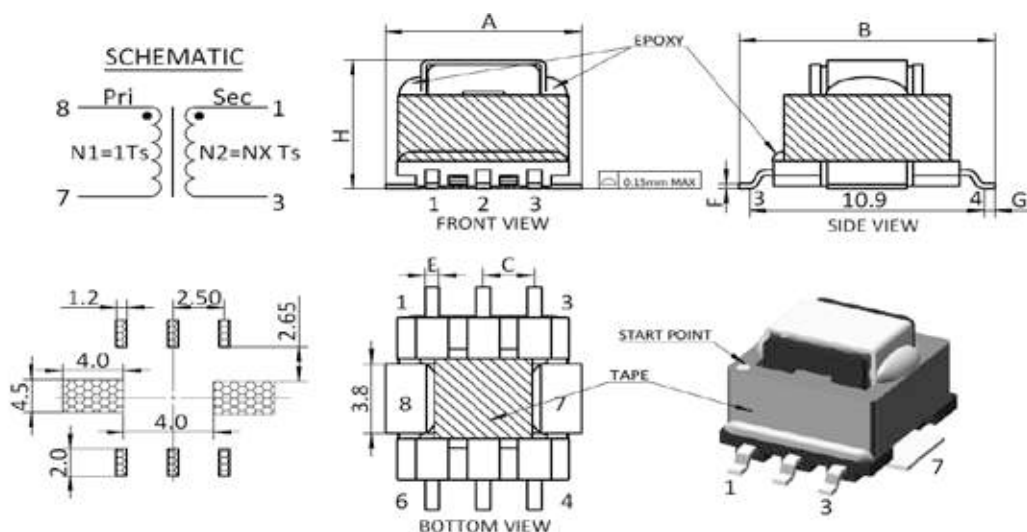
High Frequency Current Sensing Transformers

Applications :

- Power supply for VTRs.
- Small surface mount current sensors
- LCD televisions, Notebook PCs., Portable communication equipment., DC/DC converters etc.



Shape and Dimensions (Dimensions are in mm) :



Item	A MAX	B MAX	H MAX	Item	C	E	F	G
SMTEE8.3	11.0	13.0	7.8	SMTEE8.3	2.5±0.3	0.7±0.1	0.25 REF	0.8 REF

Features :

- Very low DC resistance.
- Different turns ratios.
- Designed for automatic pick and place.
- RoHS compatible.
- Sensed Current – primary rated for 10 Amps.

Product Identification :

SMT EE8.3 - 100T - 1T

(1) (2) (3) (4)

- (1) Type: **Surface Mountable Type.**
- (2) Style: **EE** Core with, **8.3** is size.
- (3) Secondary Turn: **100Ts**:
- (4) Primary Turn : **1Ts**.

Characteristics :

- Primary current of 15A causes less than 40°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- Operating temperature : -40°C to 125°C.

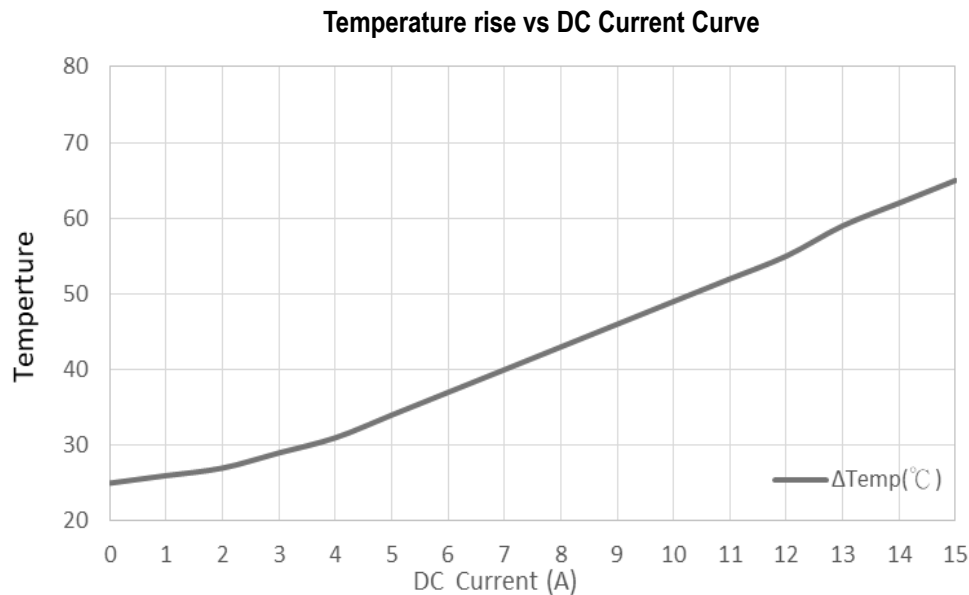
Frequency range : SMTEE8.3 @50KHz TO 1MHz.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.

**● SMTEE8.3 series**

Part NO.	Turns ration Sec: Pri	Secondary Inductance @100KHz0.3V (mH)MIN	DCR		Hi-pot Pri-Sec @3mA 3S 50Hz	Primary Current (Max) (A)
			Sec MAX (Ω)	Pri MAX (mΩ)		
SMTEE8.3-20T-1T	20:1	0.22	0.21	3.90	500V AC	15
SMTEE8.3-30T-1T	30:1	0.50	0.32	3.90	500V AC	15
SMTEE8.3-40T-1T	40:1	0.88	0.50	3.90	500V AC	15
SMTEE8.3-50T-1T	50:1	1.4	0.65	3.90	500V AC	15
SMTEE8.3-60T-1T	60:1	2.0	0.81	3.90	500V AC	15
SMTEE8.3-70T-1T	70:1	2.7	1.0	3.90	500V AC	15
SMTEE8.3-80T-1T	80:1	3.5	1.3	3.90	500V AC	15
SMTEE8.3-100T-1T	100:1	5.6	2.0	3.90	500V AC	15
SMTEE8.3-125T-1T	125:1	8.7	5.2	3.90	500V AC	15
SMTEE8.3-150T-1T	150:1	12.6	6.5	3.90	500V AC	15
SMTEE8.3-200T-1T	200:1	22.0	8.0	3.90	500V AC	15

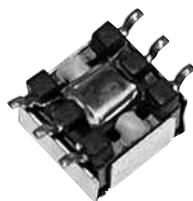
Note 1: Referenced ambient temperature 25°C**Typical performance curves**

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

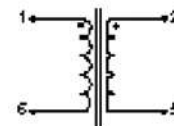
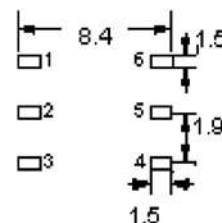
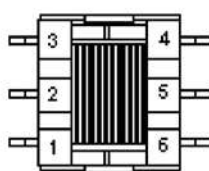
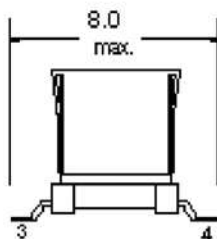
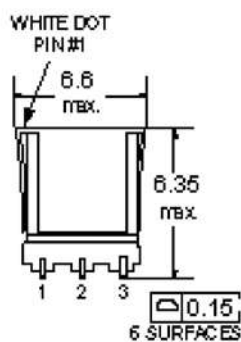


● TRANSFORMER AND INDUCTOR WITH BOBBIN 【RM/EE/EF/EFD/EP/EI/POT series】

ADSL Coupled Inductors SMTEE5 Series



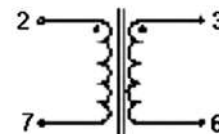
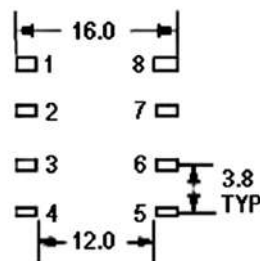
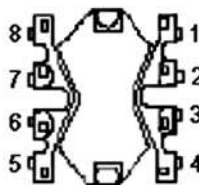
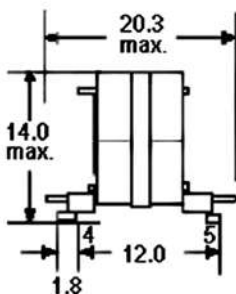
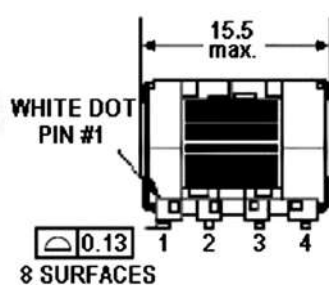
- For use in Low Pass and High Pass Filters in ADSL/RADSL applications.
- Surface mounting packaging.
- Shielded design for EMI reduction.



ADSL POTS Inductor 【SMTRM5 Series】



- For use in low pass filters for ADSL POTS splitter.
- High inductance & SRF.
- Shielded design for EMI reduction.





**GENERAL PRODUCTS FOR SWITCH MODE POWER SUPPLY APPLICATION:
SUITABLE FOR FLYBACK, FORWARD, PUSH PULL, HALF AND FULL BRIDGE TOPOLOGIES :**

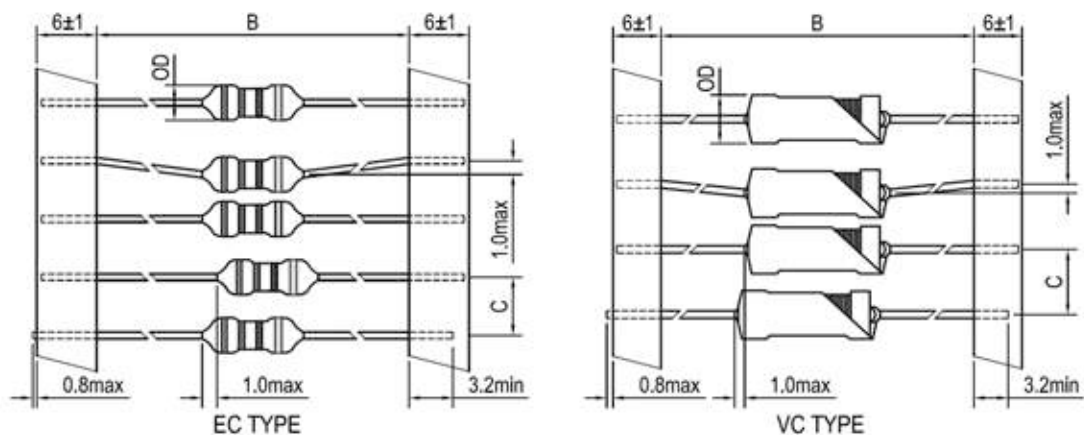
			
EE or EF 05/ 6.3/ 8/ 13/ 14/ 16/ 19/ 20/ 25/ 30/ 32/ 34/ 37/ 40/ 42/ 47 Vertical, Horizontal, PTH, SMT			EI 5/ 8/ 13/ 16/ 20/ 25/ 32 Vertical, Horizontal. PTH, SMT
			
EFD 10/ 12/ 15/ 20/ 25/ 30 Vertical, Horizontal, PTH, SMT		POT CORE TYPE 3.3/ 4.6/ 6/ 9/ 11/ 14/ 18/ 22/ 26/ 36	EFD 10/ 12/ 15/ 20/ 25/ 30 Vertical, Horizontal, PTH, SMT

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

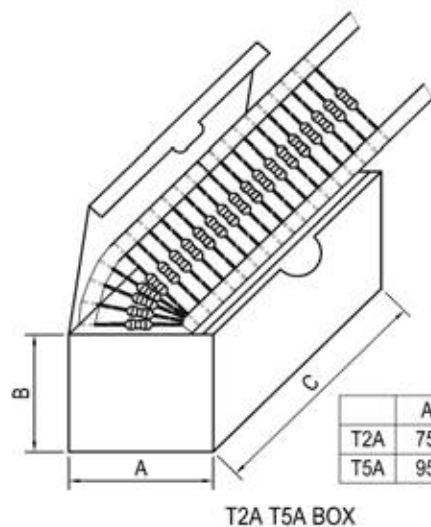
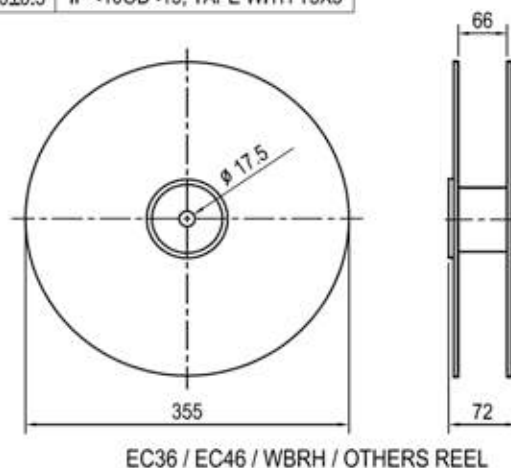
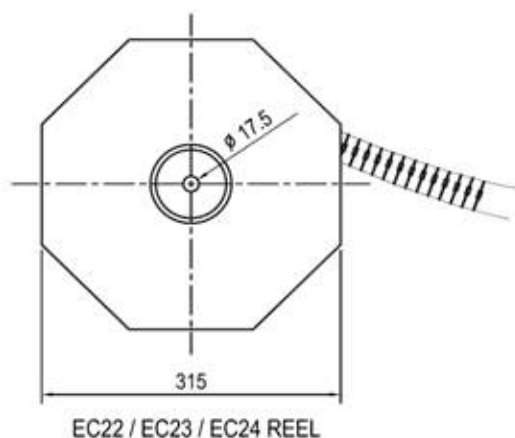


● PACKAGING SPECIFICATION FOR EC/WRBH

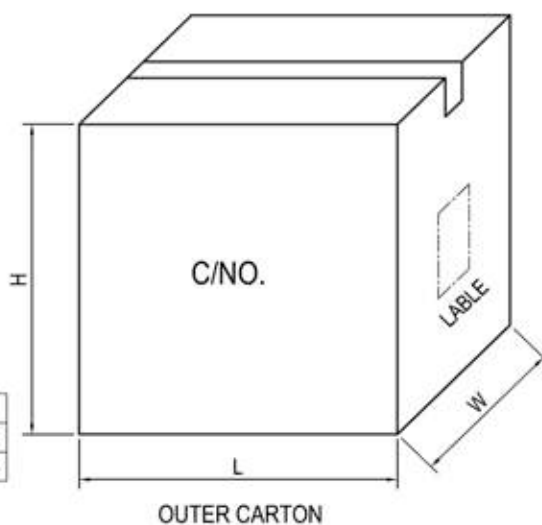
Shape and size(Dimension unit: mm):



	T2	T5	T5X2	T5X3	IF OD<5, TAPE WITH T5 IF 5<OD<10, TAPE WITH T5X2 IF <10OD<15, TAPE WITH T5X3
B	26.0±1.0	52.0±1.0	52.0±1.0	52.0±1.0	
C	5.0±0.5	5.0±0.5	10.0±0.5	15.0±0.5	

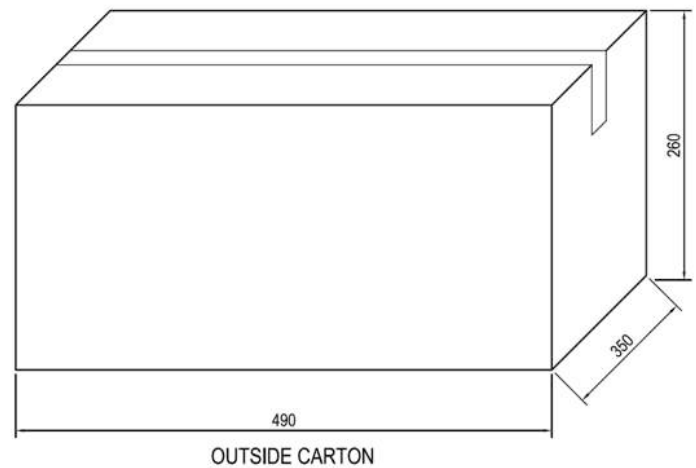
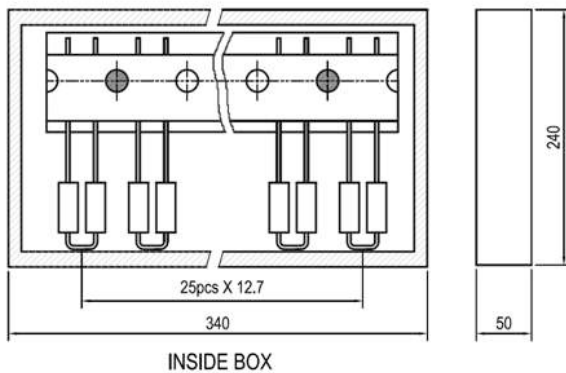
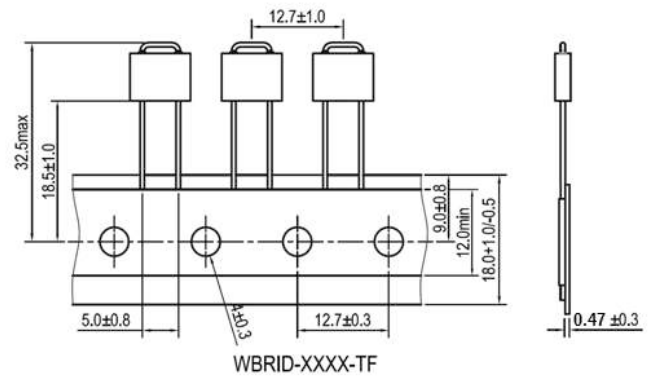
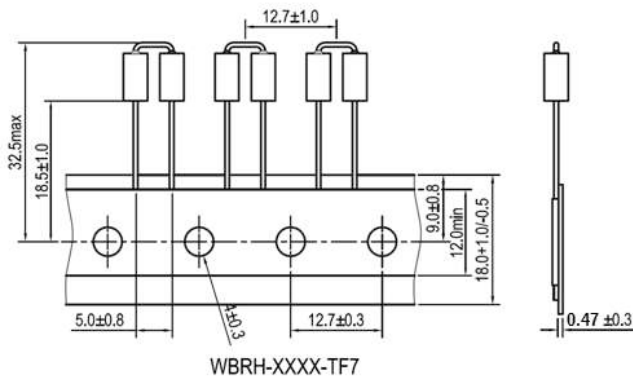
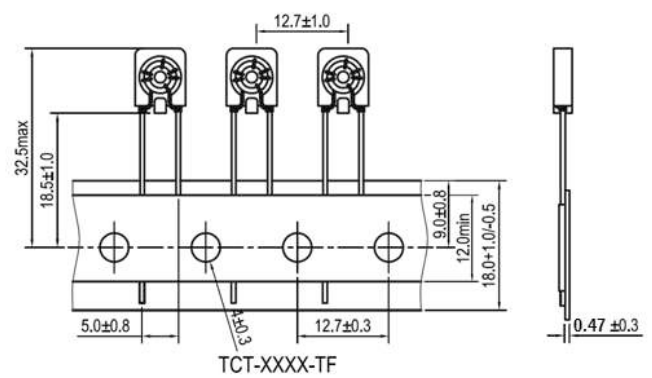
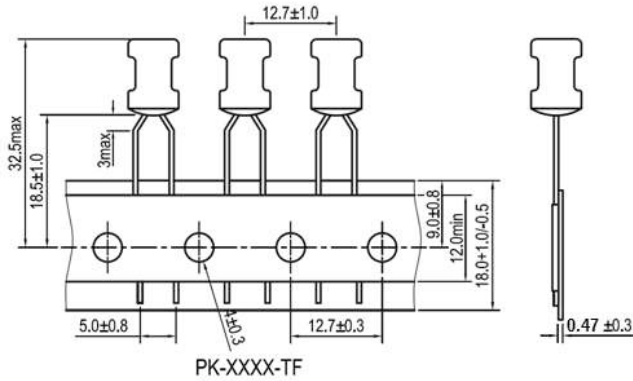
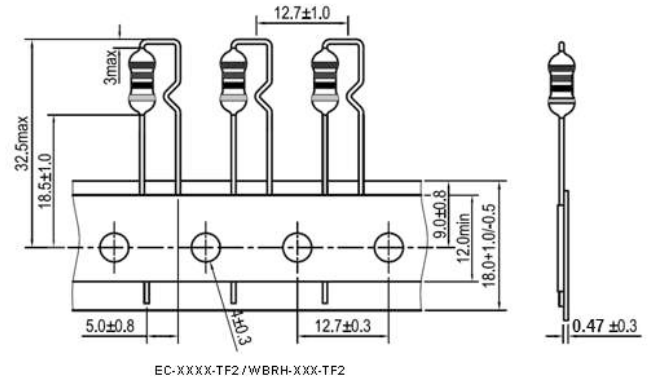
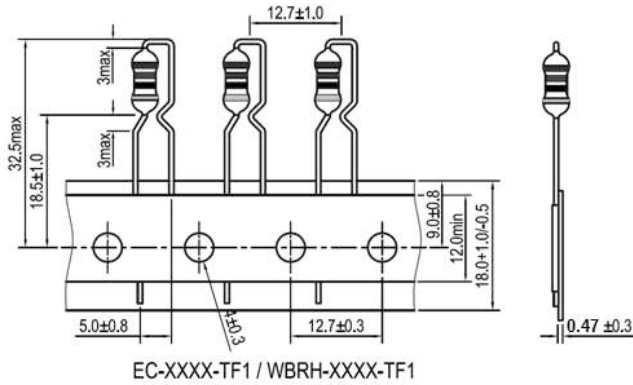


	A	B	C
T2A	75	55	255
T5A	95	85	255



● FOR EC/PK/WRHID/WRH

Shape and size(Dimension unit: mm)





● TAPE AND REEL SPECIFICATIONS EC/PK/WRH

Series	Type	Packaging Quantity			Carton Size ^{note2}			Gross Weight
		Parts / Box	Parts / Reel	Parts / Carton	L	W	H	
EC22	T5		5000pcs	25000pcs	330mm	330mm	460mm	9Kg
	T2A	2000pcs		72000pcs	410mm	270mm	350mm	10.5Kg
	T5A	2500pcs		62500pcs	380mm	380mm	460mm	13Kg
	TF ^{note1}	2500pcs		25000pcs	490mm	350mm	260mm	9Kg
EC24	T5		5000pcs	25000pcs	330mm	330mm	460mm	11Kg
	T2A	2000pcs		72000pcs	410mm	270mm	350mm	19.2Kg
	T5A	2000pcs		50000pcs	380mm	380mm	460mm	16.5Kg
	TF ^{note1}	2500pcs		20000pcs	490mm	350mm	260mm	10Kg
EC36	T5		5000pcs	25000pcs	380mm	380mm	460mm	16Kg
	T2A	1200pcs		43200pcs	410mm	270mm	350mm	18.3Kg
	T5A	1500pcs		24000pcs	410mm	270mm	350mm	12.4Kg
	TF ^{note1}	2000pcs		16000pcs	490mm	350mm	260mm	12Kg
EC38	T5		4000PCS	20000PCS	380mm	380mm	460mm	18Kg
	T2A	1200PCS		43200PCS	410mm	270mm	350mm	40kg
	T5A	1500PCS		24000PCS	410mm	270mm	350mm	21Kg
EC46	T5		3000pcs	15000pcs	380mm	380mm	460mm	15Kg
	T2A	800pcs		28800pcs	410mm	270mm	350mm	19.2Kg
	T5A	1000pcs		16000pcs	410mm	270mm	350mm	12Kg
	TF ^{note1}	1500pcs		12000pcs	490mm	350mm	260mm	12Kg
PK0406	TF	1000pcs		10000pcs	490mm	350mm	260mm	5.5Kg
PK0507	TF	1500pcs		12000pcs	490mm	350mm	260mm	11.6Kg
PK0608	TF	750pcs		7500pcs	490mm	350mm	260mm	7.7Kg
PK0810	TF	600pcs		4800pcs	490mm	350mm	260mm	16.7Kg
PK1012	TF	500pcs		4000pcs	490mm	350mm	260mm	18.6Kg
WRH ^{note3}	T5		5000pcs	25000pcs	380mm	380mm	460mm	15.8Kg
	T2A	1000pcs		30000pcs	410mm	270mm	350mm	18Kg
	T5A	1500pcs		24000pcs	410mm	270mm	356mm	18Kg
	TF ^{note1}	2000pcs		20000pcs	490mm	350mm	260mm	15Kg
	TF	1800pcs		18000pcs	490mm	350mm	260mm	14.5Kg
WRID	TF	1800pcs		18000pcs	490mm	350mm	260mm	14.5Kg

NOTE 1: " TF TYPE " INCLUDES TF1, TF2.

NOTE 2: "CARTON SIZE" LISTED HERE IS "INSIDE" CARTON SIZE AND IS SAME AS FACTORY'S INTERNAL RECORD.

OUTER OUTSIDE CARTON SIZE WILL BE MULTIPLIED BY 1.05 FOR VOLUME CALCULATION.

NOTE 3:WRH-3.5X4.7X0.8,WRH-3.5X6X0.8 AND OTHER SERIES USE THE SAME KIND OF PACKAGING BUT ARE DIFFERENT ON WEIGHT. THE TABLE ABOVE SHOWS THE WEIGHT OF WRH-3.5X4.7X0.8 ONLY.



● IN BAG PAKEAGE

Series			23×29	181207	261916	412718
	膠袋	每袋	每板	小箱	內箱	外箱
EC22	8×6	1000		5000	35000	70000
EC24	8×6	1000		5000	30000	60000
EC36	8×6	1000		5000	20000	40000
EC38	8×6	1000		5000	20000	40000
EC46	8×6	500		3000	12500	25000
EC0410	8×6	500		3000	12500	25000
PK0406	4×6	500		2500	10000	20000
PK0608	4×6	200		1000	4000	8000
PK0707	4×6	200		1000	4000	8000
PK0807	4×6	100		500	2000	4000
PK0810	4×6	100		500	2000	4000
PKS0605	4×6	250		1000	6000	12000
PKS0605			800		4800	9600
PKS0606			900		5400	10800
PKS0805			500		2500	5000
PKS0807			500		2500	5000
PKS0809			500		2500	5000
MF0709	4×6	100		500	2000	4000
MF0809	4×6	100		500	2000	4000
MF1112	4×6	100		400	1600	3200
FS0606	4×6	500		2500	10000	20000
FS0807	4×6	100		500	2000	4000
FS0807			500		3000	6000
FS4W1010			400		2000	4000
FS1012	4×6	100		300	1200	2400
FS1012			350		1400	2800
FS1215	4×6	50		200	800	1600
FS1618			100		600	1200
WBRH35308	8×6	1000			16000	32000
WBRH354508	8×6	1000			16000	32000
WBRH354708	8×6	1000			16000	32000
WBRH35508	8×6	1000			16000	32000
WBRH255208	8×6	1000			16000	32000
WBRH35608	8×6	1000			16000	32000
WBRH35808	6×8	1000			16000	32000
WBRH35908	8×6	1000			15000	30000
WBRID-237573		100		500	2000	4000
WBR6H	6×8	500		1000	4000	8000



● **IN BAG PAKEAGE**

Series			23×29	181207	261916	412718
	膠袋	每袋	每板	小箱	內箱	外箱
TC(3026)	4×6	200		2000	8000	16000
TC(3726)	4×6	100		500	2000	4000
TC(4426)	4×6	100		500	2000	4000
TC(5026)	6×8	100		500	2000	4000
TC(6026)	6×8	100		300	1200	2400
TC(6826)	6×8	100		200	800	1600
TC(8026)			100		500	1000
TC(9026)			120		480	960
TC(9426)			100		400	800
TC(10626)			36		216	432
TC(13026)			24		168	336
TC(3018)			400		2400	4800
TC(3818)			250		1500	3000
TC(4453)			280		1680	3360
TC(5018)			120		600	1200
TC(5052B)	4×6	100		500	2000	4000
TC(5053B)			200		1200	2400
TC(6018-F)			130		780	1560
TC(6053)			180		1080	2160
TC(6018)			160		960	1920
TC(6052-F)			140		700	1400
TBV(6826)			54		270	540
TBV(4426)			400		1600	3200
TBV(6026)			100		200	400
TBC			140		540	1080
TBKM(4426)			300		1500	3000
TBKM(6826A)			70		350	700
TBKM(8026B)			100		400	800
TBKM(10626)			100		400	800
TBH(9026)			42		210	420
TBH(3726)			350		2100	4200
TBH(4426)			230		1610	3220
TBH(6026)			165		660	1320
FC0205	4×6	1000		2000	8000	16000
FC0310	4×6	25		100	400	800
FC0415	4×6	200		1000	4000	8000
FC0520	4×6	100		500	2000	4000
FC0630	6×8	100		200	800	1600



● IN BAG PAKEAGE

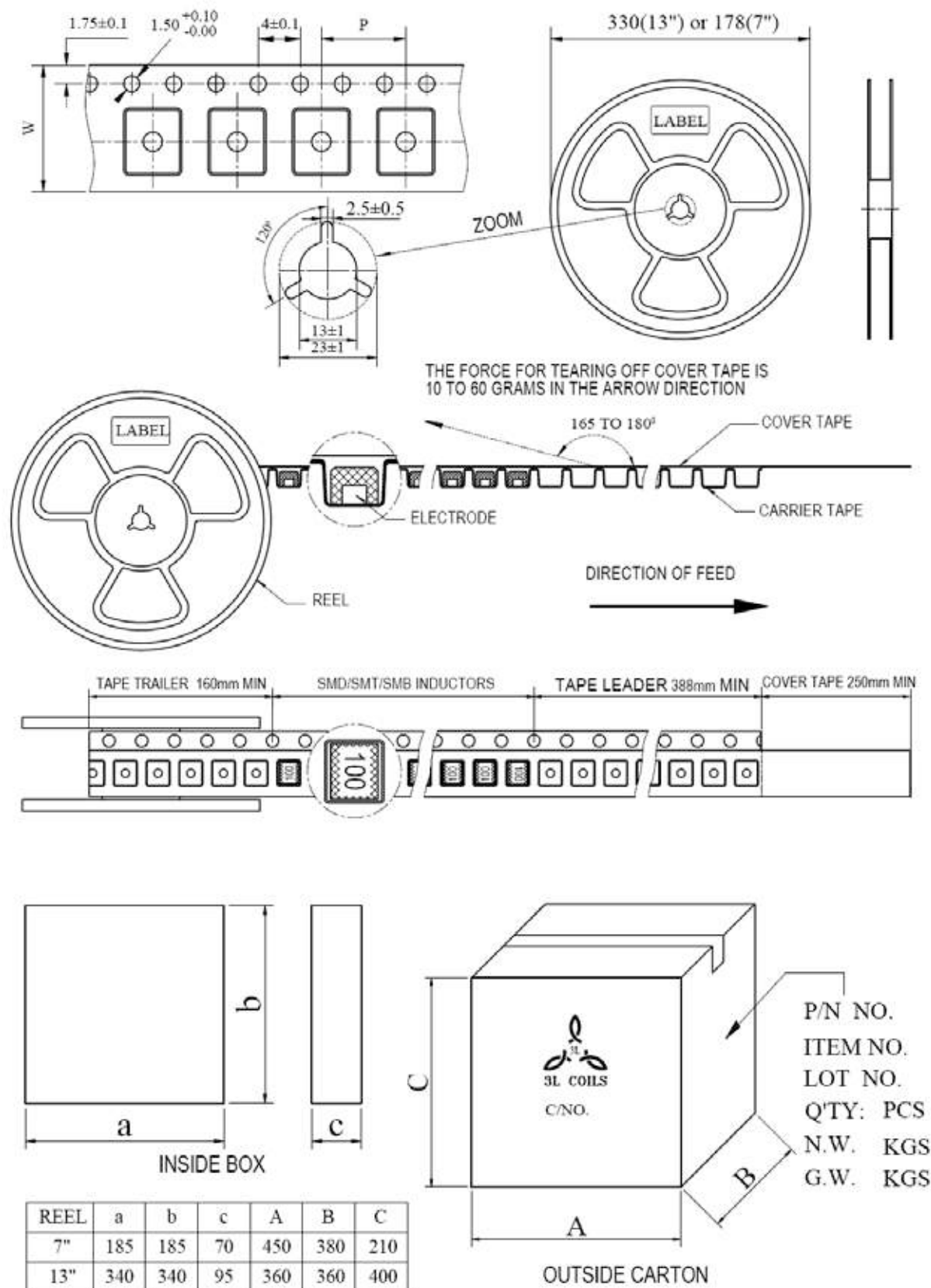
Series			23×29	181207	261916	412718
	膠袋	每袋	每板	小箱	內箱	外箱
LFV129	6×8	100		200	800	412735/3200
LFV	8×12	100		100	400	412735/1600
LFV2208			40		240	480
LFV2513			48		240	480
LFV3715			24		120	240
LFT1206	4×6	100	40	500	2000	4000
LFT1608			80		480	960
LFT2208			50		350	700
LFT2513			32		192	384
LFT3113			48		240	480
LFTB1206			195		780	1560
LFTB3113			24		120	240
LFH			75		375	412735/1500
LFC			80		240	412735/960
LFLH			48		240	480
LFLV			32		192	384
LFTH2208			48		240	480
LFU9.8			240		1200	2400
LFU9.8H			165		825	1650
LFU10			140		560	1120
LFU16			100		400	800
LFUT20			120		480	960
ET24			95		285	570
ET28			60		180	360

181207(小小盒)四個裝入一個 261916 紙箱;二個 261916 裝入一個 412718 紙箱,而 412735 紙箱可以裝四個 261916 紙箱.



TAPE AND REEL SPECIFICATIONS

Shape and size : (Dimensions are in mm)





Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
LHP201610	8	4	3000		140g	4	12K	144K	8.8kg
LHP201612	8	4	3000		152g	4	12K	144K	9.5kg
LHP252010	8	4	3000		172g	4	12K	144K	10.2kg
LHP252012	8	4	3000		190g	4	12K	144K	11.1kg
LHP322512	8	4	3000		248g	4	12K	144K	14.3kg
LHP322520	8	4	2000		285g	4	8K	96K	15.6kg
PHP201610	8	4	3000		140g	4	12K	144K	8.8kg
PHP201612	8	4	3000		152g	4	12K	144K	9.2kg
PHP252010	8	4	3000		172g	4	12K	144K	10.2kg
PHP252012	8	4	3000		190g	4	12K	144K	11.1kg
PHP322512	8	4	3000		248g	4	12K	144K	14.3kg
PHP322520	8	4	2000		285g	4	8K	96K	15.6kg
HPI201610(P)	8	4	3000		140g	4	12K	144K	8.7kg
HPI201612(P)	8	4	3000		152g	4	12K	144K	9.2kg
HPI252010(P)	8	4	3000		172g	4	12K	144K	10.4kg
HPI252012(P)	8	4	3000		190g	4	12K	144K	11.0kg
HPI0310	12	8		4000	0.50kg	2	8k	32k	5.8kg
HPI0312	12	8		4000	0.60kg	2	8k	32k	6.6kg
HPI0315	12	8		3000	0.60kg	2	6k	24k	6.6kg
HPI0302	12	8		3000	0.65kg	2	6k	24k	7.0kg
HPI0410	12	8		4000	0.70kg	2	8k	32k	7.5kg
HPI0412	12	8		4000	0.80kg	2	8k	32K	8.2kg
HPI0415	12	8		3000	0.75kg	2	6k	24k	7.8kg
HPI0402	12	8		3000	0.90kg	2	6k	24K	9.0kg
HPI0510	16	8		4000	0.95kg	2	8k	32k	9.5kg
HPI0512	16	8		4000	1.05kg	2	8k	32k	10.5kg
HPI0515	16	8		4000	1.30kg	2	8k	32k	12.5kg
HPI0518	16	8		3000	1.15kg	2	6k	24k	11.0kg
HPI0502	16	8		3000	1.25kg	2	6k	24k	12.0kg
HPI0610	16	12		3000	1.05kg	2	6k	24k	10.5kg
HPI0612	16	12		3000	1.25kg	2	6k	24k	12.0kg
HPI0615	16	12		2000	1.05kg	2	4k	16k	10.5kg
HPI0618	16	12		2000	1.20kg	2	4k	16k	11.5kg
HPI0602	16	12		2000	1.25kg	2	4k	16k	12.0kg
HPIF0412	12	8		4000	0.80kg	2	8k	32k	8.5kg
HPIF0402	12	8		3000	0.90kg	2	6k	24k	9.0kg
HPIF0518	16	8		3000	1.15kg	2	6k	24k	11.0kg
HPIF0612	16	12		3000	1.25kg	2	6k	24k	12.0kg
HPIF0618	16	12		2000	1.20kg	2	4k	16k	11.5kg
UPI (X)0603	12	8		1500	1.50kg	2	3K	12K	14.0kg
UPI (X)0804	24	12		1000	1.93kg	2	2k	8k	17.08kg
UPI (X)1004	24	16		900	2.66kg	2	1.8K	7.2K	22.3kg
UPI (X)1005	24	16		800	3.06kg	2	1.6K	6.4K	25.48kg
UPI (X)1205	24	20		500	2.54kg	2	1k	4k	21.96kg
UPI (X)1265	24	20		400	2.68kg	2	0.8k	3.2k	23.08kg
UPI (X)1704	32	24		500	4.3kg	2	1K	4K	35.5kg
UPI (X)1707	32	24		300	3.92kg	2	0.6K	2.4K	33.5kg
UPI (X)2213	44	32		130	4.92kg	1	0.13K	0.52K	20.68kg

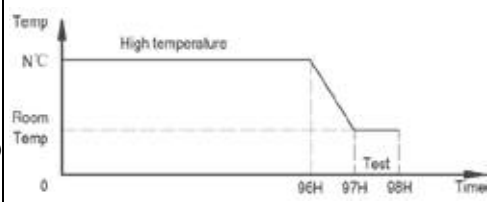
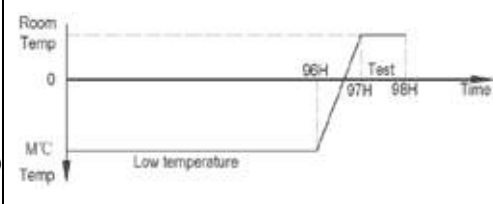
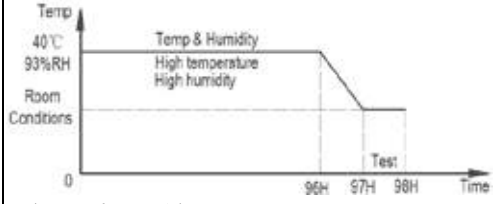
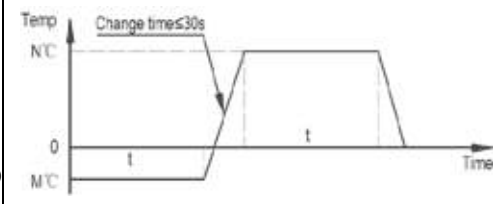


Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
BDR2D12	12	8		4000	647g	5	20k	80k	18.3kg
BDR2D15	12	8		4000	680g	5	20k	80k	19.0kg
BDR3D12	12	8		4000	733g	5	20k	80k	20.1kg
BDR3D15	12	8		4000	760g	5	20k	80k	20.6kg
BDR3D18	12	8		3500	700g	5	17.5k	70k	19.4kg
BDE2D10	12	8		4000	520g	5	20k	80k	15.8kg
BDE2D12	12	8		4000	667g	5	20k	80k	18.7kg
BDE2D15	12	8		4000	720g	5	20k	80k	19.8kg
BDE3D12	12	8		4000	773g	5	20k	80k	20.9kg
BDE3D15	12	8		4000	800g	5	20k	80k	21.4kg
BDE3D18	12	8		3500	723g	5	17.5k	70k	19.8kg
BRI2D12	12	8		4000	693g	5	20k	80k	19.3kg
BRI2D15	12	8		4000	733g	5	20k	80k	20.1kg
BRI2D18	12	8		3500	690g	5	20k	80k	19.0kg
BRI3D12	12	8		4000	787g	5	20k	80k	21.1kg
BRI3D15	12	8		4000	813g	5	20k	80k	21.7kg
BRI3D18	12	8		3500	758g	5	17.5k	70k	19.3kg
SNR3015	12	8	2000		250g	5	10k	40k	7.5kg
SNR4018	12	8		3000	764g	5	15k	60K	20.3kg
SNR4030	12	8		2000	740g	5	10K	40K	26.7Kg
SNR5040	12	8		1500	880g	4	6k	12k	9.6kg
SNR6045	16	8		1500	900g	3	4.5k	18k	12.0kg
SNR8040	16	12		1000	1.2Kg	3	3k	12k	16.0kg
SMD2520V(P)	8	4	2000		130g	5	10k	120k	12.0kg
SMD3225V(P)	8	4	2000		150g	5	10k	120k	13.0kg
SMD4532V(P)	12	8	500		130g	4	2k	24k	11.0kg
SMD5650V	16	12		1000	760g	4	4k	16k	13.5kg
SMTDR32P	12	8		3000	530g	5	15k	60k	14.2kg
SMTDR43	12	8		2000	720g	5	10k	40k	18.0kg
SMTDR53	12	8		2000	880g	5	10k	40k	20.0kg
SMTDR54	12	8		1500	890g	5	7.5k	30k	22.0kg
SMTDR75	16	12		1000	1.2kg	3	3k	12k	20.5kg
SMTDR105	24	12		750	1.2kg	3	2.25k	9k	18.0kg
SMTDR107	24	16		500	1.3kg	3	1.5k	6k	17.5kg
SMTSDR321618C	8	4	2000		130g	5	10k	120k	12.0kg
SMTSDR322515	12	8	2000		152g	5	10k	120k	13.0kg
SMTSDR322520(C)	8	4	2000		180g	5	10k	120k	15.0kg
SMTSDR453226(C)	12	8	500		140g	4	2k	24k	12.0kg
SMTSDR575047C	16	12		1000	780g	4	4k	16k	16.0kg
SMTDRH0520	12	8		2000	0.43kg	5	10k	40k	10.6kg
SMTDRH0530	12	8		2000	0.39kg	5	10k	40k	9.8kg
SMTDRH0530L	12	8		2000	0.40kg	5	10k	40k	9.9kg
SMTDRH0630	12	8		2000	0.87kg	5	10k	40k	19.4kg
SMTDRH0635	12	8		2000	0.92kg	5	10k	40k	20.4kg
SMTDRH103R	24	16		1000	1.6kg	3	3k	12k	24.0kg
SMTDRH104R	24	16		750	1.6kg	3	2.25k	9k	24.0kg
SMTDRH105R	24	16		750	1.8kg	3	2.25k	9k	26.0kg



Series	Tape size		Parts Per Reel			Per Box		Per Carton	
	W	P	7"	13"	G.W	N(卷數)	Q'ty	Q'ty	G.W
SMTDRRI4D18	12	8		2000	540g	5	10k	40k	15.0kg
SMTDRRI4D28	12	8		2000	680g	5	10k	40k	18.0kg
SMTDRRI5D18	12	8		2000	860g	5	10k	40k	22.0kg
SMTDRRI5D28	12	8		2000	1.1kg	5	10k	40k	25.0kg
SMTDRRI6D28	16	12		1500	1.0kg	4	6k	24k	20.0kg
SMTDRRI6D38	16	12		1000	1.1kg	4	4k	16k	22.0kg
SMTDRRI62B	16	12		1500	650g	4	6k	24k	15.0kg
SMTDRRI64B	16	12		1000	850g	4	4k	16k	18.0kg
SMTDRRI73	16	12		1000	1.0kg	4	4k	16k	20.0kg
SMTDRRI74	16	12		1000	1.2kg	4	4k	16k	24.0kg
SMTDRRI124	24	16		500	1.6kg	3	1.5k	6k	24.0kg
SMTDRRI125	24	16		500	1.9kg	3	1.5k	6k	26.0kg
SMTDRRI127	24	16		350	1.8kg	3	1.05k	4.2k	26.0kg
SMTDRRI129	24	16		250	1.7kg	3	0.75k	3k	22.5kg
SMTDRRI74P	16	12		1000	1.2kg	4	4k	16k	24.0kg
SMTDRRI125P	24	16		500	1.9kg	3	1.5k	6k	26.0kg
SMTDRRI127P	24	16		350	1.8kg	3	1.05k	4.2k	26.0kg
SMTDRS0628	12	8		2000	930g	5	10k	40k	23.0kg
SMTDRS0728	16	12		1000	750g	4	4k	16k	16.0kg
SMTDRS0730	16	12		1000	800g	4	4k	16k	17.0kg
SMTDRS0732	16	12		1000	850g	4	4k	16k	18.0kg
SMTDRS0745	16	12		1000	1.1kg	4	4k	16k	22.0kg
SMTDRS1045	24	16		750	1.7kg	3	2.25k	9k	25.0kg
SMTDRS1255	24	16		500	1.6kg	3	1.5k	6k	24.0kg
SMTDRS1265	24	16		500	1.8kg	3	1.5k	6k	26.0kg
SMTDRS1275	24	16		350	1.6kg	3	1.05k	4.2k	24.0kg
SMTER63	16	12		1000	1.4kg	3	3k	12k	21.0kg
SMTER64	16	12		1000	1.5kg	3	3k	12k	22.0kg
SMTER65	16	12		1000	1.6kg	3	3k	12k	23.0kg
SMTER134	24	16		500	2.2kg	2	1k	4k	31.0kg
SMTBW104	24	16		500	1.2kg	2	1k	4k	19.0kg
SMTBW105	24	16		500	1.3kg	2	1k	4k	20.0kg
SMTBW125	24	16		500	1.8kg	2	1k	4k	26.0kg
SMTBW134	24	16		500	1.9kg	2	1k	4k	27.5kg
SMDCHGR 0402	8	2	5000		75g	5	25k	300k	9.5kg
SMDCHGR 0603	8	4	4000		95g	5	20k	240k	10.0kg
SMDCHGR 0805	8	4	3000		110g	5	15k	180k	11.0kg
SMDCHGR 1008	8	4	2000		130g	5	10k	120k	12.0kg
SMDWCM2012	8	4	2000		130g	5	10k	120k	12.0kg
SMDWCM3216	8	4	2000		170g	5	10k	120K	14.0kg
SMTLF3922P	16	12		1000	0.66kg	3	3k	12k	9.04kg
SMTLF632	24	16		500	1.2kg	3	1.5k	6k	18.0kg
SMB-100505	8	2	10000		140g	5	50K	200k	5.3kg
SMB-160808	8	4	4000		146g	5	20K	80k	5.4kg
SMB-201209	8	4	4000		180g	5	20K	80k	6.1kg
SMTEE4.4	12	8		2000	550g	4	8k	32k	10.5kg
SMTEE4.6	16	8		2500	650g	4	10k	40k	12.0kg
SMTEE5.0	16	12		1000	700g	4	4k	16k	13.0kg
SMTEE8.3	24	20		350	820g	4	1.05k	4.2k	11.5kg

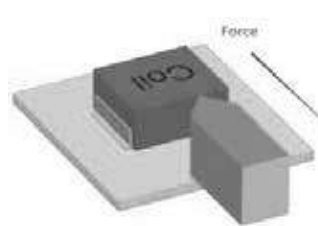


FOR SMT and DIP Types			
Environmental tests (環境試驗)	Item (項目)	Required Characteristics (要求)	Test Method / Condition (測試方法)
	High temperature Storage test Reference documents: GB/T 2423.2-2008 Method Bb 高溫儲存試驗	1. No significant defects in appearance. 2. $\Delta L/L \leq 10\%$ (Mn-Zn: $\Delta L/L \leq 30\%$) 3. $\Delta Q/Q \leq 30\%$ (Only SMD series) 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過10%(錳鋅材質感值變化不超過30%) 3. 品質因數變化不超過30%(僅限SMD系列) 4. 直流電阻變化不超過 10%	Temperature: $N \pm 2^\circ\text{C}$ (N: Follow the product specification for the setting.) Time : 96 ± 2 hours Place the samples for one hour at room temperature and test them within two hours  溫度: $N \pm 2^\circ\text{C}$ (N:依據產品規格設定) 時間: 96 ± 2 小時 樣品在室溫下放置 1H (錳鋅材質品室溫放置 24H) 後測試.
	Low temperature Storage test Reference documents: GB/T 2423.1-2008 Method Ab 低溫儲存試驗	1. No significant defects in appearance. 2. $\Delta L/L \leq 10\%$ (Mn-Zn: $\Delta L/L \leq 30\%$) 3. $\Delta Q/Q \leq 30\%$ (Only SMD series) 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過10%(錳鋅材質感值變化不超過30%) 3. 品質因數變化不超過30%(僅限SMD系列) 4. 直流電阻變化不超過 10%	Temperature: $M \pm 2^\circ\text{C}$ (M: Follow the product specification for the setting) Time : 96 ± 2 hours Place the samples for one hour at room temperature and test them within two hours.  溫度: $M \pm 2^\circ\text{C}$ (M:依據產品規格設定) 時間: 96 ± 2 小時 樣品在室溫下放置 1H (錳鋅材質品室溫放置 24H) 後測試.
	Humidity test Reference documents: GB/T 2423.3-2016 恒定濕熱試驗	1. No significant defects in appearance. 2. $\Delta L/L \leq 10\%$ (Mn,Zn: $\Delta L/L \leq 30\%$) 3. $\Delta Q/Q \leq 30\%$ (Only SMD series) 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過10% (錳鋅材質感值變化不超過30%) 3. 品質因數變化不超過30%(僅限SMD系列) 4. 直流電阻變化不超過 10%	Temperature: $40 \pm 2^\circ\text{C}$, Humidity: $93 \pm 3\% \text{RH}$ Time : 96 ± 2 hours Place the samples for one hour at room temperature and test them within two hours  溫度: $40 \pm 2^\circ\text{C}$, 溼度: $93 \pm 3\% \text{RH}$ 時間 : 96 ± 2 hours 樣品在室溫下放置 1H (錳鋅材質品室溫放置 24H) 後測試.
	Thermal shock test Reference documents: GB/T 2423.22-2012 Method Na 冷熱衝擊測試	1. No significant defects in appearance. 2. $\Delta L/L \leq 10\%$ (Mn,Zn: $\Delta L/L \leq 30\%$) 3. $\Delta Q/Q \leq 30\%$ (Only SMD series) 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過10%(錳鋅材質感值變化不超過30%) 3. 品質因數變化不超過30%(僅限SMD系列) 4. 直流電阻變化不超過 10%	Start at $M^\circ\text{C}$ for 30 min, rush to $N^\circ\text{C}$ for 30 min as one cycle, go through 20 cycles.  從 $M^\circ\text{C}$ 作用30分鐘,然後溫度衝擊到 $N^\circ\text{C}$ 作用30分鐘,作為一個循環,共20個迴圈.


FOR SMT and DIP TYPE

Environmental tests (環境試驗)	Item (項目)	Required Characteristics (要求)	Test Method / Condition (測試方法)
	Solderability test Reference documents: J-STD-002D 可焊性測試	Terminals must have 95% minimum solder coverage 端子必須有 95%以上著錫	1. Dip pads in flux then dip in solder pot at 245±5°C for 5 second. 2. Solder: lead free 3. Flux: rosin flux 1. 端子浸入助焊劑, 再浸入 245±5°C 錫爐中 5 秒 2. 焊料 :無鉛焊料 3. 助焊劑:松香助焊劑
	Heat endurance of flow soldering Reference documents: GJB 360B-2009 Method 210 耐焊接熱試驗 SMT Type*	1. No significant defects in appearance. 2. $\Delta L/L \leq 10\%$ (Mn, Zn: $\Delta L/L \leq 30\%$) 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過10%(錳鋅材質感值變化不超過30%) 3. 品質因數變化不超過30% 4. 直流電阻變化不超過 10%	1. Component temp: 250±5°C , time: 30±5s Time above 183°C, 90s~120s, 1°C/s~4°C/s 2. Refer to the above reflow condition and go through the reflow for three times. 1. 產品表面溫度: 250±5°C, 時間: 30±5s; 183°C 以上持續90s~120s, 升溫斜率1°C/s~4°C/s 2. 按照以上條件過三遍。
	Heat endurance of flow soldering Reference documents: GJB 360B-2009 Method 210 耐焊錫熱測試 DIP Type*	1. No case deformation or change in appearance. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ 1. 無明顯的外觀缺陷 2. 感值變化不超過 10% 3. 品質因數變化不超過 30% 4. 直流電阻變化不超過 10%	1. Dip in solder pot at 260+0/-5°C for 10 second. 2. Solder: lead free 1. 端子浸入260+0/-5°C 錫爐中10秒 2. 焊料 :無鉛焊料
	Vibration test Reference documents: GB/T 2423.10-2019 振動測試 (正弦)	1. No significant defects in appearance. 2. No short and no open. 1. 無明顯的外觀缺陷 2. 無短路開路異常	Apply frequency 10~55~10Hz and amplitude 1.5mm, 1 oct/ min in X/ Y/ Z direction for 20 cycles each. 用10~55~10Hz 振動頻率, 振幅1.5mm, 1 oct/min . X, Y, Z方向各振動20個迴圈。


FOR SMT and DIP TYEP

Environmental tests (環境試驗)	Item (項目)	Required Characteristics (要求)	Test Method / Condition (測試方法)
	Drop test Reference documents: GB/T 2423.7-2018 落下試驗	1.No case deformation or change in appearance. 2.No short and no open. 1.無明顯的外觀缺陷 2.無短路開路異常	Drop the packaged products from 1m high in 1 angle, 3 ridges and 6 surfaces, twice in each direction. 將產品包裝後從1米高度自然落下至試驗板上 1角3棱6面各跌落兩次
	Terminal strength push test Reference documents: GB/T 2423.60-2008 端子強度試驗 SMT Type*	1. HPI / SMD(V) / SMB / SMI / SMW series: Applied force:5N Duration: 10sec 2. Other SMT series besides the above series: Applied force:10N Duration: 10sec 3. Solder paste thickness:0.12mm 4. Meet the above requirements without any loose terminal. 1. HPI / SMD(V) / SMB / SMI / SMW 系列: 施加力:5N 持續時間:10秒 2. 除上述系列以外的其他SMT系列: 施加力:10N 持續時間:10秒 3. 錫膏厚度:0.12毫米 4. 端子不發生鬆脫並滿足上述要求	Solder the test samples to the PCB through 245 °C reflow, apply a standard force on the side of the test samples for 10 seconds.  測試樣品過245℃的迴流焊上PCB板，施加一個力到測試器件的側面，這個力應持續10秒。
	Terminal strength Reference documents: GB/T 2423.60-2008 端子強度試驗 DIP Type*	1. Terminal diameter(d) mm $0.35 < d \leq 0.50$ Applied force:5N Duration: 10sec 2. Terminal diameter(d) mm $0.50 < d \leq 0.80$ Applied force:10N Duration: 10sec 3. Terminal diameter(d) mm $0.80 < d \leq 1.25$ Applied force:20N Duration: 10sec 4. Terminal diameter(d) mm $d > 1.25$ Applied force:40N Duration: 10sec 5. Meet the above requirements without any loose terminal. 1. 引出端直徑(d) mm $0.35 < d \leq 0.50$ 施加力:5N 持續時間:10秒 2. 引出端直徑(d) mm $0.50 < d \leq 0.80$ 施加力:10N 持續時間:10秒 3. 引出端直徑(d) mm $0.80 < d \leq 1.25$ 施加力:20N 持續時間:10秒 4. 引出端直徑(d) mm $d > 1.25$ 施加力:40N 持續時間:10秒 5. 端子不發生斷裂並滿足上述要求	Pull Force:the force shall be applied gradually to the terminal and then maintained for 10 seconds  拉力:拉力逐漸到最大值維持 10 秒。
	Resistance to solvent test Reference documents: GB / T 2423.30-2013 耐溶劑性試驗	No damage in appearance or marking 無外觀破壞及標記破損	Dip parts into IPA solvent for 5±0.5Min, dry them at room temp for 5Min, then brush them for 10 times 在IPA溶劑中浸泡 5±0.5分鐘,室溫下乾燥5分鐘以上,然後擦拭10次。



FOR SMT and DIP TYPE

Application Notice(應用需知)：

1. Storage Conditions (儲存條件)

To maintain the solderability of terminal electrodes:

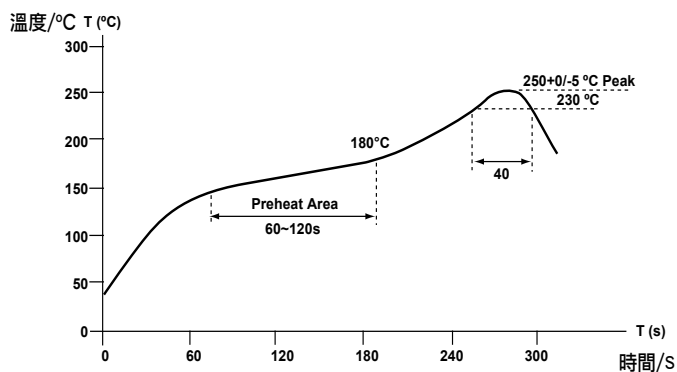
- (1) Temperature and humidity conditions : $<35^{\circ}\text{C}$ and $<35\sim65\%\text{RH}$
- (2) Recommendation: inductors should be used within 6 months from the time of delivery.
- (3) Packaging material should be kept away from where chlorine or sulfur exists.

為了維持端面電極的焊錫性：

- (1) 溫度及溼度條件： $<35^{\circ}\text{C}$ 和 $<35\sim65\%\text{RH}$ 。
- (2) 建議電感最好貨到6個月內使用。
- (3) 包裝材料應避免含氯及硫的環境

2. Soldering (焊接)

(1) Lead-free the recommended reflow condition (SMT TYP) (無鉛回流焊推薦條件 (貼片型))

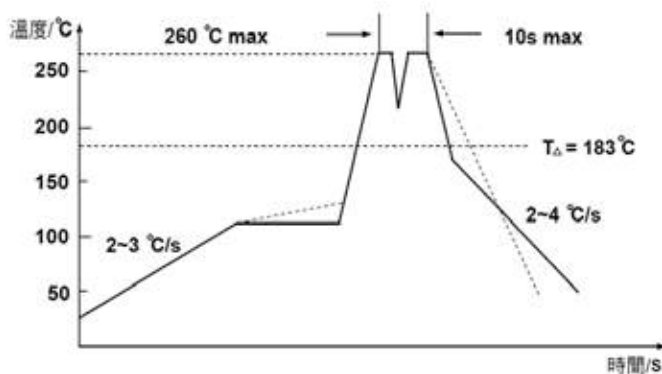


ADD：(補充)

The recommended reflow conditions as graph, is set according to our soldering equipment, due to various manufacturers may have different reflow soldering equipments, products, process conditions, set methods .. and so on, when setting the reflow conditions, Please adjust and confirm according to users' environment / equipments.

左圖推薦的回流焊條件，是以我司的回流焊設備進行設定，由於各家廠商的回流焊設備、產品制程條件、設定方式..等，有很大的不同，所以回流焊條件的設定，請使用者依自己的環境/設備進行調整及確認。

(2) Lead-free the recommended Wave soldering (DIP TYP) (無鉛波峰焊推薦條件 (插件型))



ADD：(補充)

Left recommended Wave soldering, is a reference to a single wave soldering recommended by the manufacturer, because the various manufacturers of soldering equipment, product process conditions, set way .. and so on, are very different, so setting the Wave soldering conditions, Please adjust and confirm according to users' environment / equipments.

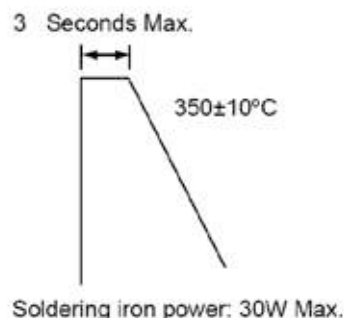
左圖推薦的波峰焊條件，是參考單一波焊廠商建議，由於各家廠商的波峰焊設備、產品制程條件、設定方式..等，有很大的不同，所以波峰焊條件的設定，請使用者依自己的環境/設備調整及確認。



(3) Soldering Iron (烙鐵)

- (1) Use a soldering iron to solder inductors by hand, time does not exceed 350 degrees 3 seconds.
- (2) When soldering iron welding, please try to avoid contacting the inductor itself. (definitely do not contact the wire)
- (3) To solder inductors by soldering iron is not recommended.

- (1) 使用烙鐵手工焊接電感器，時間不超過 350 度 3 秒。
- (2) 烙鐵焊接時請盡量避免接觸到電感本體(絕對不能接觸到線包)
- (3) SMT 電感以烙鐵焊接並不鼓勵



3. Precautions (注意事項)

- (1) When using our inductors, please carry out product assembling test and evaluation of product operating environment.
- (2) Non-magnetic shielded inductors, when design circuit, should pay attention to its space allocation in order to avoid electromagnetic interference which can cause malfunctions.
- (3) Do not place inductors near magnet or any magnetic objects.
- (4) Do not use or store inductors in a corrosive gas environment. (example: salt, sulfur, acid, etc ..).
- (5) The catalogue specification for reference only. Please check the official specification from 3L datasheet as approved.
- (6) Inductance element described in this catalog, is generally applied to consumer electronic devices. For the following applications, please contact us, in order to confirm for the product information.

Life-threatening safety equipment, such as: Transport / Transportation / Disaster / medical / public infocomm equipment ... etc, high security and reliability of applications, such as: Aerospace / Aviation / military equipment .. etc., while for high security / high reliability of general electronic equipment / circuits, please adequate safety and reliability, append the protection circuit when necessary.

- (1) 使用我司電感時，務必進行產品實裝測試以及產品使用環境下的測評。
- (2) 非磁遮罩電感，在電路設計時需注意空間配置，避免受到電磁干擾導致誤動作。
- (3) 請勿將電感產品靠近磁鐵或帶有磁性的物體。
- (4) 請勿在具有腐蝕性氣體的環境(鹽、硫、酸..等)下使用或保存。
- (5) 目錄中記載的規格僅供參考，正式規格請以3L 工程部輸出並經客戶承認的規格書為準。
- (6) 本目錄中記載的電感元件，僅適用於一般消費性電子設備，若以下應用請與我公司取得聯繫，針對產品資訊加以確認。
危及生命安全的設備，如：運輸/交通/防災/醫療/公共性高的資訊通信設備...等，高安全性，可靠性的應用設備，如：航太/航空/軍事設備..等，同時，用於高安全性/高可靠性的一般電子設備/電路時，請充分進行安全性測評，必要時請追加保護電路。



Glossary 名詞解釋：

INDUCTANCE 電感值

The property of a circuit element which tends to oppose any change in the current flowing through it. The inductance for a given inductor is influenced by the core material, core shape and size, the turns count and the shape of the coil. Inductors most often have their inductances expressed in microhenries (μH). The following table can be used to convert units of inductance to microhenries. Thus, 47mH would equal 47,000 μH .

一電路之特性，能抑制流經之電流的改變，一電感之電感值會受鐵芯之材質，鐵芯之形狀及尺寸，繞線的圈數及線圈的形狀所影響，通常用來表示一電感的電感值，電感值的單位為微亨利(μH)，下列的表格可以用來將電感值的單位換算成微亨利，如此，47mH 既等於 47000 μH 。

$$\begin{aligned} 1 \text{ henry (H)} &= 10^6 \mu\text{H} \\ 1 \text{ millihenry (mH)} &= 10^3 \mu\text{H} \\ 1 \text{ microhenry (}\mu\text{H)} &= 1\mu\text{H} \\ 1 \text{ nanohenry (nH)} &= 10^{-3} \mu\text{H} \end{aligned}$$

Q Factor 品質係數

The Q value of an inductor is a measure of the relative losses in an inductor. The Q is also known as the "quality factor" and is technically defined as the ratio of inductive reactance to effective resistance and is represented by:

電感的品質係數是量測一電感相對損失的指標，這 Q 值被稱為“品質係數”，它的定義為感抗(X_L)對有效電阻(R_e)之比，如下所示：

$$Q = \frac{X_L}{R_e} = \frac{2\pi f L}{R_e}$$

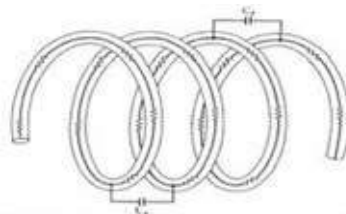
Since X_L and R_e are functions of frequency, the test frequency must be given when specifying Q. X_L typically increases with frequency at a faster rate than R_e at lower frequencies, and vice versa at higher frequencies. This results in a bell shaped curve for Q vs frequency. R_e is mainly comprised of the DC resistance of the wire, the core losses and skin effect of the wire. Based on the above formula, it can be shown that the Q is Zero at the self resonant frequency since the inductance is Zero at this point.

因為感抗及有效電阻都相關於頻率，當要確定品質係數時需指定一個頻率，在低頻時，感抗一般隨頻率增加的增加速率比有效電阻來的大，在高頻時掉的也快，故品質係數對頻率的關係形成一鐘型的曲線，有效電阻主要由繞線的直流電阻，鐵損及表面效應所貢獻，由上列之公式可看出在共振頻率時之品質係數為零，因為此時的電感值為零。

DCR (DC RESISTANCE) 直流電阻

The resistance of the inductor winding measured with no alternating current. The DCR is most often minimized in the design of an inductor. The unit of measure is ohms, and it is usually specified as a maximum rating.

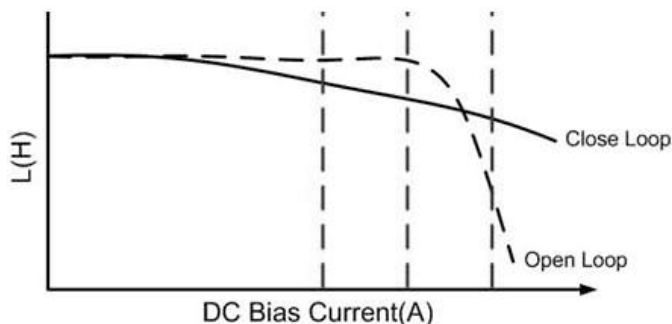
電感線圈在非交流電下量得之電阻。在電感設計中，直流電阻愈小愈好，其量測單位為歐姆，通常以其最大值為標註。



SATURATION CURRENT 飽和電流

The DC bias current flowing through the inductor which causes the inductance to drop by a specified amount from the initial zero DC bias inductance value. Common specified inductance drop percentages include 10% and 20%. It is useful to use the 10% inductance drop value for ferrite cores and 20% for powdered iron cores in energy storage applications. The cause of the inductance to drop due to the DC bias current is related to the magnetic properties of the core. The core, and some of the space around the core, can only store a given amount of magnetic flux density. Beyond the maximum flux density point, the permeability of the core is reduced. Thus, the inductance is caused to drop. Core saturation does not apply to "air-core" inductors. (Also see Incremental Current and Permeability.)

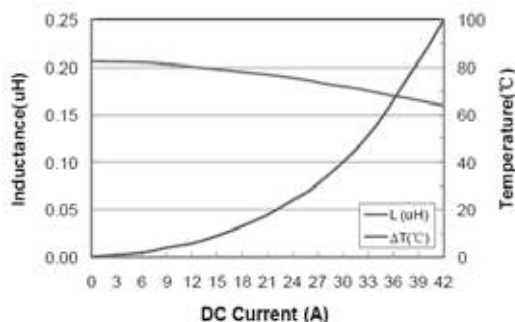
指流經一電感而使其電感值比零直流偏壓時之原電感值下降一特定量的直流偏壓電流，通常定義的電感值下降百分比有 10% 及 20%，使儲存能量的應用中，對鐵氧磁體鐵芯使用 10% 的電感下降值及對粉狀鐵芯使用 20% 的電感下降值是有用處的，因此直流偏壓電流而致電感值下降的因素與鐵芯的磁性有關。鐵芯及其周遭的一些空間指可以儲存一定量之磁通密度，超過此磁通密度，鐵芯的導磁率會降低。因此，電感值會因而下降。鐵芯的飽和並不適用於“空心鐵芯”的電感(亦參閱增量電流及導磁率)



RATED CURRENT(I_{rms}) 額定電流(溫升電流)

The level of continuous DC current that can be passed through the inductor. This DC current level is based on a maximum temperature rise of the inductor at the maximum rated ambient temperature. The rated current is related to the inductor's ability to minimize the power losses in the winding by having a low DC resistance. It is also related to the inductor's ability to dissipate this power lost in the winding. Thus, the rated current can be increased by reducing the DC resistance or increasing the inductor size. For low frequency current waveforms, the RMS current can be substituted for the DC rated current. The rated current is not related to the magnetic properties of the inductor. (Also see Incremental Current and Saturation Current.)

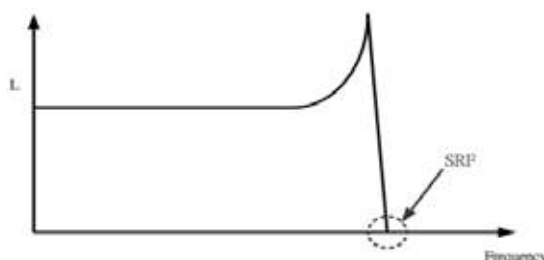
允許能通過一電感之連續直流電流強度，此直流電流的強度是基於在該電感在最大的額定環境溫度中的最大溫升，額定電流與一電感藉由低的直流電阻以降低繞線的能量損失的能力有關，亦與電感驅散繞線的能量損失的能力有關，因此，額定電流可藉著降低直流電阻或增加電感尺寸來提高，對低頻的電流波形，其均方根電流值可以用來代替直流額定電流，額定電流與電感的磁特性並無關連。



SRF (SELF-RESONANT FREQUENCY) 自我共振頻率

The frequency at which the inductor's distributed capacitance resonates with the inductance. It is at this frequency that the inductance is equal to the capacitance and they cancel each other. The inductor will act purely resistive with a high impedance at the SRF point. The distributed capacitance is caused by the turns of wire layered on top of each other and around the core. This capacitance is in parallel to the inductance. At frequencies above the SRF, the capacitive reactance of the parallel combination will become the dominant component. Also, the Q of the inductor is equal to zero at the SRF point since the inductive reactance is zero. The SRF is specified in MHz and is listed as a minimum value on product data sheets. (Also see Distributed Capacitance.)

指一頻率，在此頻率下，一電感之分佈電容值與電感值產生共振。此時電感值與電容值相等而相互抵消掉。電感在自我共振頻率顯現出高阻抗值的純粹阻抗性，分佈電容是由於所繞的線圈相互重疊及於鐵芯周圍所產生，此電容是平行於電感，當頻率高於自我共振頻率時，此平行結合之容抗會主導元件的特性，而且，此電感之品質係數於自我共振頻率時會為零，因此時之感抗等於零，自我共振頻率以 MHz 作標記，且在產品的資料表內以最小值登錄。(亦參閱分佈電容值)

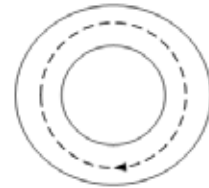
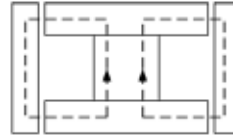
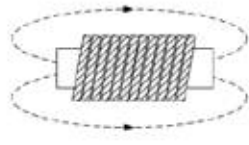
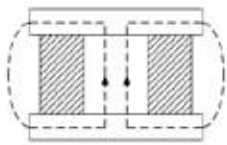




CLOSED MAGNETIC PATH 封閉的磁路

Magnetic core shapes designed to contain all of the magnetic flux generated from an excited winding(s). Inductors made with these core types are considered to be shielded inductors. Shielding, however, is a matter of degree. Common core shapes that are considered to have closed magnetic paths are toroids, E-cores and most pot cores. Shielded bobbins also offer a high degree of shielding and may be considered to have closed magnetic path for most practical purposes. Common core shapes that are considered to have open magnetic flux paths are rod cores and unshielded bobbin cores.

具有能完全包容所有由繞線電感所產生之磁通量的磁性鐵芯形狀皆可被認為是具遮蔽的電感，然而遮蔽只是程度上的不同，一般上，環形鐵芯，E 形鐵芯及大部分之 POT 形鐵芯都被認為是具有封閉磁路的鐵芯形狀，遮蔽的線軸亦能提供高程度的遮蔽，在大部分實際的應用上亦被視為具有封閉磁路，一般被認為有開放磁路的鐵芯形狀有棒形鐵芯及未遮蔽之線軸鐵芯。



OPEN MAGNETIC PATH

開磁路

CLOSED MAGNETIC PATH

閉磁路

INDUCTOR 電感

A passive component designed to resist changes in current. Inductors are often referred to as "AC Resistor". The ability to resist changes in current and the ability to store energy in its magnetic field, account for the bulk of the useful properties of inductors. Current passing through an inductor will produce a magnetic field. A changing magnetic field induces a voltage which opposes the field-producing current. This property of impeding changes of current is known as inductance. The voltage induced across an inductor by a change of current is defined as:

一被動元件，其作用在抑制電流的變化，電感亦常被稱為“交流電阻”，其抑制電流變化的功能及以磁場儲存能量的能力為電感最有用的特性，電流流經一電感時會產生磁場，而磁場的變化會在產生電流的反方向感應一電壓，這種抑制電流變化的特性被稱為電感值，由一電流變化而在電感兩端產生感應的電壓可被定義成：

$$V = L \, di/dt$$

Thus, the induced voltage is proportional to the inductance value and the rate of current change.

如此，感應電壓正比於電感值及電流變化速率。

COPPER LOSS 銅損

The power lost by current flowing through the winding. The power loss is equal to the square of the current multiplied by the resistance of the wire (I^2R). This power loss is transferred into heat.

電流流經線圈所產生之能量損失，此能量損失等於電流大小的平方乘上線圈的電阻(I^2R)，這些能量損失轉換成熱能。

CORE LOSSES 鐵損

Core losses are caused by an alternating magnetic field in the core material. The losses are a function of the operating frequency and the total magnetic flux swing. The total core losses are made up of three main components: Hysteresis, eddy current and residual losses. These losses vary considerably from one magnetic material to another. Applications such as higher power and higher frequency switching regulators and RF Designs require careful core selection to yield the highest inductor performance by keeping the core losses to a minimum.

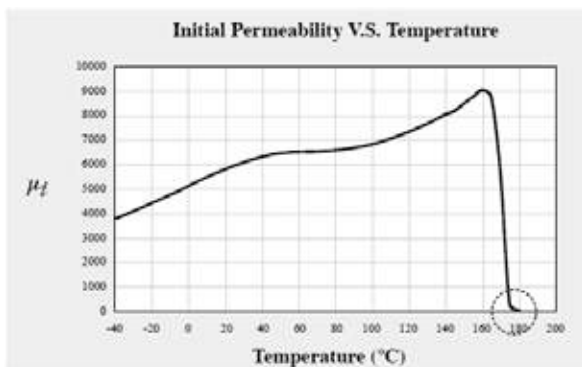
鐵損是由於在鐵芯中的變更磁場所造成，這個損失與操作頻率及總流動的磁通量有關，總鐵損由三個成份組成，磁滯損，渦流損及殘留損。這些損失因磁性材料不同而異，在如高功率及高頻率切換調整器和 RF 的設計需要小心選擇鐵芯種類以降低鐵損使電感的表現最佳。



CURIE TEMPERATURE 居禮溫度

The temperature above which a ferrite core loses its magnetic properties. The core's permeability typically increases dramatically as the core temperature approaches the curie temperature which causes the inductance to increase. The permeability drops to near unity at the curie temperature which causes the inductance to drop dramatically. The curie point is the temperature at which the initial permeability has dropped to 10% of its original value at room temperature.

在此一溫度以上鐵氧磁體鐵芯失去磁性質，鐵芯的磁導率一般在接近居禮溫度時會急速上升因而電感值亦上升，於居禮溫度時，導磁率約降至一， 因而使電感值急速下降，當初導磁率下降為在室溫下之初導磁率的 10%時，其溫度稱之為居禮溫度。



COMMON-MODE NOISE 共模雜訊

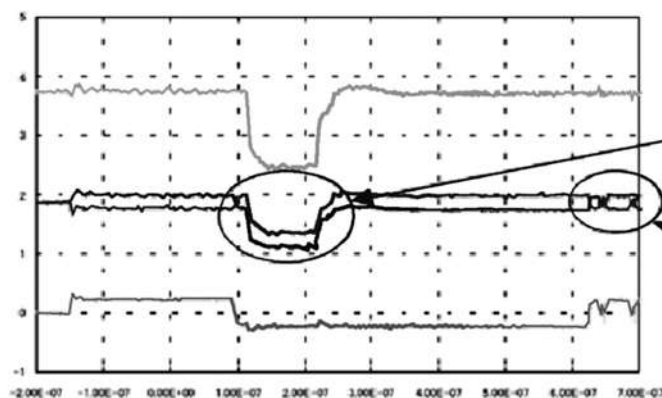
Noise or electrical interference that is common to both electrical lines in relation to earth ground.

在與接地相關之電路上發生的雜訊或電氣干擾

DIFFERENTIAL-MODE NOISE 差模雜訊

Also known as normal-mode noise, it is electrical interference that is not common to both electrical lines but present between both electrical lines.

亦稱之正常模式雜訊，些種電氣干擾並非發生在電路中而是在電路與電路之間。



The fall of the common mode noise caused by the signal line due to power
因電源線落在信號線上造成的共模雜訊

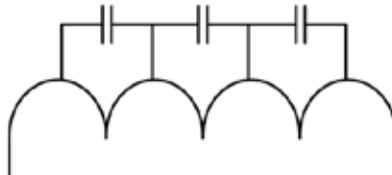
Jitter caused by differential mode noise in the signal line due to ground
因接地抖動在信號線上造成的差模雜訊



DISTRIBUTED CAPACITANCE 分佈電容值

In the construction of an inductor, each turn of wire or conductor acts as a capacitor plate. The combined effects of each turn can be represented as a single capacitance known as the distributed capacitance. This capacitance is in parallel with the inductor. This parallel combination will resonate at some frequency which is called the self-resonant frequency (SRF). Lower distributed capacitances for a given inductance value will result in a higher SRF value and vice versa. (Also see SRF.)

在電感的結構中，每一圈的繞線或導體有如電容電板一般的作用。其每圈結合起來的效果，有如單一之電容值，稱之分佈電容值。與電感並聯的。如此並聯的結合使得電感在某頻率下會產生諧振，稱之自我共振頻率(SRF)，在一定電感值下，較低的分佈電容值會有較高之自我共振，反之亦然。



EDDY CURRENT LOSSES 渦流損

Eddy current losses are present in both the magnetic core and winding of an inductor. Eddy currents in the winding (or conductor) contribute to two main types of losses: losses due to proximity effects and skin effects. As for the core losses, an electric field around the flux lines in the magnetic field is generated by alternating magnetic flux. This will result in eddy currents if the magnetic core material has electrical conductivity. Losses result from this phenomenon since the eddy currents flow in a plane that is perpendicular to the magnetic flux lines.

渦流損同時會出現在電感中的繞線及磁性鐵芯中，在繞線(導體)中的渦電流會促進兩種形式的損失：鄰近效應之損失及表面效應之損失，至於鐵損，可視為在一磁場中之磁力線周圍的一電場，是由交互的磁通量所產生，如果此磁性鐵芯具有導電性，則形成渦電流，因渦電流在一垂直於磁力線方向的平面流動，損失因而產生。

PERMEABILITY (CORE) 導磁率 (鐵芯)

The permeability of a magnetic core is the characteristic that gives the core the ability to concentrate lines of magnetic flux. The core materials, as well as the core geometry, affect the core's "effective permeability". For a given core shape, size and material, and a given winding, higher permeability magnetic materials result in higher inductance values as opposed to lower permeability materials.

磁性鐵芯的導磁率是令鐵芯具有集中磁力線能力的特性，鐵芯的材質及鐵芯的形狀會影響鐵芯的“有效導磁率”對一個已知的鐵芯形狀，尺寸及材質和特定的繞線，具較高導磁率的磁性材質與較低導磁率的材質比較起來，會有較高的電感值。

[illegible]

WARRANTY

- **All standard parts** are guaranteed to be free from defects in material and workmanship, and are warranted to meet the 3L published specifications. No other warranty expressed or Implied is made by 3L. All special parts manufactured to a customer's specification are guaranteed to the extent agreed upon in writing between 3L and the user.
- **3L will repair / replace** units under the following conditions:
 1. The buyer must notify 3L in writing within 60 days of receipt of material, that they request authorization to return the parts.
A description of the complaint and samples / Photos must be included.
 2. 3L must determine to its satisfaction that the parts are defective, and the defect is not due to misuse , accident , poor engineering practices or improper application.
- **3L's liability** shall in no event exceed the cost of repair or replacement of its parts. This warranty does not extend to any material which has been altered or repaired by others without our written authorization.



Irvine, CA

3LG (North & South America Area)

Tel : +1 (949) 7056759



UNITED KINGDOM

Easby Electronics Limited
(Part of the Rebound Group)

Tel : +44 (0) 1748 850555



GERMANY

Rutronik Elektronische Bauelemente GmbH.

Tel : +49 7231 801 1543
Fax: +49 7231 801 1416



ISRAEL

Cidev Electronics (1973) Ltd.

Tel : +972 (52) 8589442
Fax: +972 (9) 7457000



KOREA

Multi4h, Inc.

Tel : +82 31 387-9096~7
Fax: +82 31 387-9098



TAIPEI

3LT (Taiwan Headquarters)

Tel : +886 (2) 86659999
Fax: +886 (2) 86659900

CHINA

U.S.A



SPAIN

Eurotronix S.A.

Tel : +34 93 223 30 03
Fax: +34 93 223 33 23



FRANCE

Equipements Scientifiques S.A.

Tel : +33 1 47 95 99 63
Fax: +33 1 47 01 16 22



ITALY

Electronic Market Padova Srl.

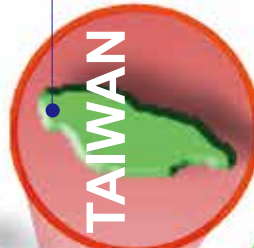
Tel : +39 (049) 761990
Fax: +39 (049) 761937



AUSTRIA

JI+C Warenvertriebsgesellschaft mbH

Tel : +43 (1) 8122739
Fax: +43 (1) 8121081



TAIWAN

SU ZHOU

3LS (Office)

Tel : +86 (512) 68271292

WUHAN

3LWH (Office)

Tel : +86 (188) 02590808



JAPAN

Sinka Japan Co., Ltd.

Tel : +81 3 3491 5320
Fax: +81 3 3491 5323



MALAYSIA

Wisdom Plus(M) Sdn Bhd.

Tel : +604 642 7950
Fax: +604 642 7954

ZHONG SHAN

3LC (Office)

Tel : +86 (760) 86628100
Fax: +86 (760) 86628111

GUANGXI

3LNN (Factory)

Tel : +86 (755) 29272893

SHENZHEN

3LH (Office)



ZHONG SHAN

3LF (Factory)

Tel : +86 (760) 85213999
Fax: +86 (760) 85213980



GLYN PTY LIMITED

Carinda International Pty Ltd.

Tel : +61 (2) 98949800
Fax: +61 (2) 96342708

DONGGUAN

3LDG (Office)

Tel : +86 (769) 86816785
Fax: +86 (769) 86816786

Certificate

IATF 16949



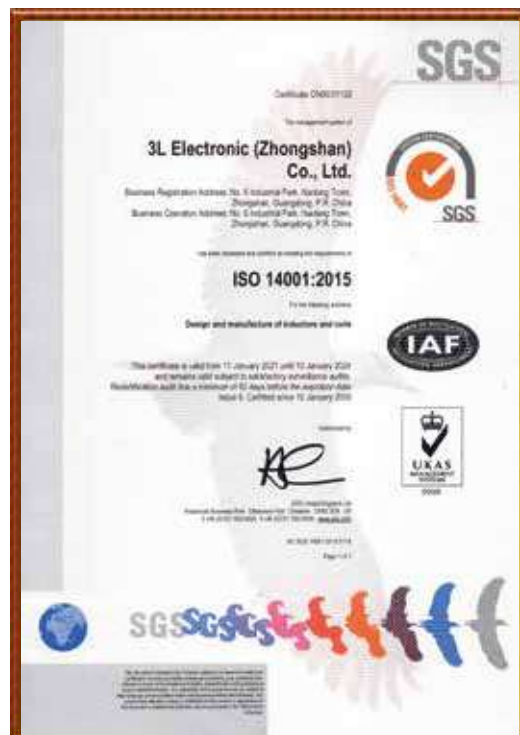
SGS GPMS



ISO 9001



ISO 14001



3L Electronic Corp.

Factory Overview

3L Zhongshan Factory 1



3L Zhongshan Factory 2



3L Guangxi Factory (New)



3L Electronic Corporation

Taiwan Sales Offices:

3L Electronic Corp. (Taiwan H.Q.)

✉ : 3F, No. 192, Sec. 2, Zhongxing Rd. Xindian Dist.,
New Taipei City 231037 Taiwan

Domestic (Taipei)

☎ : +886 (2) 86659999 EXT:888

☎ : +886 (2) 86659900

E-mail: joker@3lcoil.com

Area Manager: **Mr. Vincent Wu**

Overseas

☎ : +886 (2) 86659999 EXT:231

☎ : +886 (2) 86659347

E-mail: fiona@3lcoil.com

Area Manager: **Ms. Fiona Chen**

China Sales Offices:

Zhong Shan Sanle Electronic Ltd.

✉ : Six Industrial Area, Nanlang Zhen, Zhong Shan City,
Guangdong Prov., China. P.C. : 528451

☎ : +86 (760) 86628100

☎ : +86 (760) 86628111

E-mail: lily@3lcoil.com

Area Manager: **Ms. Lily Chen**

3L Electronic Ltd. (Suzhou Branch)

✉ : 215000, Room 2213-2214, Building 8,
Shishan Street Life Plaza, Suzhou, Jiangsu Province

☎ : +86 (512) 68271292

E-mail: byronlee@3lcoil.com

Area Manager: **Mr. Byron Lee**

3L Electronic International Trading Limited (Shenzhen Branch)

✉ : 815, building 4, COFCO Chuangxin R & D center,
Xin'an street, Bao'an District, Shenzhen City,
Guangdong Province. ZIP: 518100

☎ : +86 (755) 29272893

E-mail: zhangjun@3lcoil.com

Area Manager: **Mr. Kevin Zhang**

3L Electronic (Wuhan) Co., Ltd.

✉ : Room 1508, Building 1(Central living area of Wangjiawan),
No.697, Hanyang road, Hanyang District, Wuhan Province

☎ : +86 (188) 02590808

E-mail: wuxiaohui@3lcoil.com

Area Manager: **Mr. Kevin Wu**

3L Electronic(Dongguan) Co., Ltd.

✉ : No. 201-03 R&D Buliding 1 Lihezijing High Teck Park
Qinghudong Road No.55 QingXi Town Dongguan City,
Guangdong Prov., China. P.C. : 523660

☎ : +86 (769) 86816785

☎ : +86 (769) 86816786

E-mail: xianhe@3lcoil.com

Area Manager: **Mr. Steven**

US Offices:



3L Global Corp. (Irvine, CA)

✉ : 6 Monarch Irvine CA 92604 USA

☎ : +1-949-705-6759

E-mail: sivasan@3lcoil.com FAE: **Mr. Siva San**

Distributors:



Electronic Market Padova Srl.

✉ : Via Germania, 5 35127 Z.I. Camin Padova, Italy

☎ : +39 (0) 49/761990

☎ : +39 (0) 49/761937

E-mail: serena.zamarin@elmapd.it / elmapd@elmapd.it

Attn: Ms. Serena Zamarin



Easby Electronics Limited (Part of the Easby Group)

✉ : Unit 4, Mercury Road, Gallowfields Trading Estate,
Richmond, DL10 4TQ, England

☎ : +44 (0) 1748 850 555

E-mail: sales@easby.com / phil.clarke@easby.com

Attn: Mr. Phil Clarke



RUTRONIK Elektronische Bauelemente GmbH

✉ : Industriestraße 2, 75228 Ispringen, Germany.

☎ : +49 7231 801 1543

☎ : +49 7231 801 1416

E-mail: Daniele.Carnevale@rutronik.com

Attn: Mr. Daniele Carnevale



JI+C Warenvertriebsgesellschaft mbH

✉ : Theresianumgasse 13, A-1040 Wien/Vienna Austria.

☎ : +43 (1) 8122739

☎ : +43 (1) 8121081

E-mail: office@jic-trading.com

Attn: Mr. John Wellems



Equipements Scientifiques S.A.

✉ : 127, Rue De Buzenval - B.P. 26 - 92380 GARCHES, France

☎ : +33 1 47 95 99 63

☎ : +33 1 47 01 16 22

E-mail: philippe.guez@es-france.com

Attn: Mr. Enrique Duran



Eurotronix S.A.

✉ : C/Cobalto 16-20, Barcelona, 08038 Spain

☎ : +34 93 223 30 03

☎ : +34 93 223 33 23

E-mail: info@eurotronix.com

Attn: Mr. Carlos Duran



Cidev Electronics (1973) LTD.

✉ : 3 Habanai Street, Industrial Zone Gil-Amal,
Hod-Hasharon 45115, Israel

☎ : +972 52 8589442

☎ : +972 9 7457000

E-mail: boaz@cidev.co.il

Attn: Mr. Boaz Mandler



Wisdom Plus (M) Sdn Bhd (265997-A)

✉ : 36,Jalan Anggerik Vanilla W,31/W. Kota Kemuning,
Seksyen 31.40460 Shah Alam, Selangor, Malaysia.

☎ : +603 51240923

☎ : +603 51240925

E-mail: benecia@wisdomplus.com

Attn: Ms. Benecia Saw



Sinka Japan Co., Ltd.

✉ : Sumitomo-Life Gotanda BLG 5F, 5-1-11 Osaki
Shinagawa-ku, Tokyo. Japan. 141-0032

☎ : +81 3 3491 5320

☎ : +81 3 3491 5323

E-mail: imai@sinka-j.co.jp

Attn: Mr. Yoshihiro Imai



Multi4h, Inc.

✉ : #1315 ACE Pyeongchon Tower, 883, Gwanyang 2-dong,
Dongan-gu, Anyang-si, Gyeonggi-do, Korea, 14057

☎ : +82 31 387 9096~7

☎ : +82 31 387 9098

E-mail: seraphim@mul 4h.com

Attn: seraphim@mul 4h.com