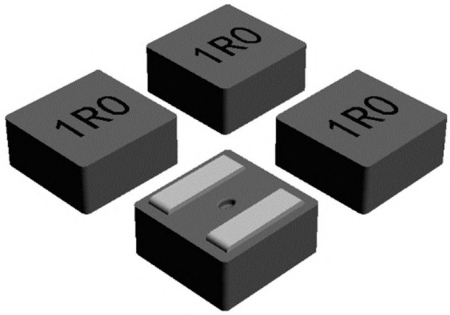
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TUP04-W SERIES

HF Halogen Free RoHS COMPLIANT

HIGH POWER INDUCTOR



Applications:

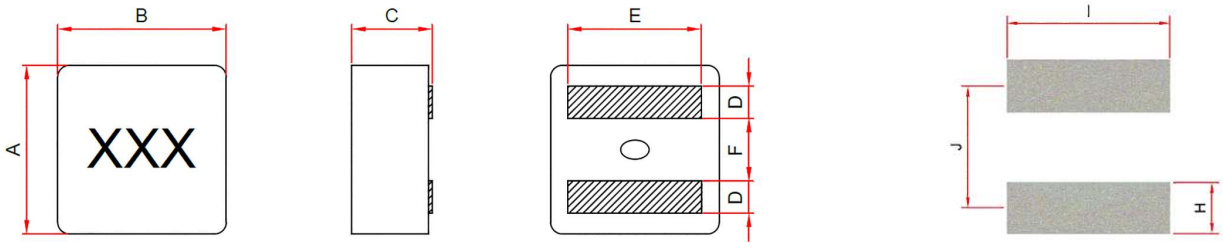
· DC/DC converter for CPU in Notebook PC

· Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

· Thin type on-board power supply module for exchanger

· VRM for server

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP0421W	4.10±0.20	4.10±0.20	2.10 Max	0.88±0.3	3.40±0.3	1.70±0.3	1.00	3.80	2.40
TUP0403W	4.10±0.25	4.10±0.25	3.00 Max	0.88±0.3	3.40±0.3	1.70±0.3	1.00	3.80	2.40

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Magnetically Shielded.

· Compliance with RoHS and Halogen Free

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 125℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

TUP 0421 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（0421：length & width=4mm，Thickness=2.1mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.

· DCR: Chroma16502 Milliohm Meter

● TUP0421W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0421W-R10M	0.10	20	2.42	33.0	38.0	13.5	18.0
TUP0421W-R22M	0.22	20	4.60	18.8	19.5	13.0	16.8
TUP0421W-R36M	0.36	20	6.30	15.0	17.0	11.0	14.5
TUP0421W-R40M	0.40	20	7.73	13.5	15.5	10.0	14.0
TUP0421W-R47M	0.47	20	8.58	13.0	14.5	9.0	12.5
TUP0421W-R56M	0.56	20	9.30	12.6	14.0	8.5	12.0
TUP0421W-R60M	0.60	20	9.52	12.3	13.7	8.0	11.7
TUP0421W-R72M	0.72	20	11.6	10.6	12.0	7.6	10.5
TUP0421W-1R0M	1.00	20	14.6	8.8	9.6	6.8	9.6
TUP0421W-1R2M	1.20	20	17.9	7.8	9.0	6.6	9.0
TUP0421W-1R5M	1.50	20	23.5	7.4	8.0	5.8	7.6
TUP0421W-1R8M	1.80	20	28.0	7.0	7.5	5.2	7.0
TUP0421W-2R2M	2.20	20	38.7	6.0	6.5	4.6	5.6

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

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

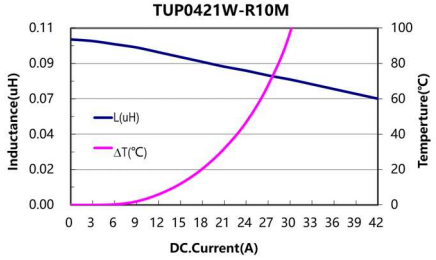
Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

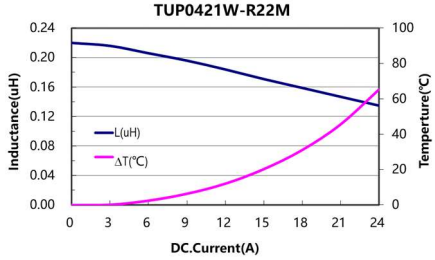
Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :

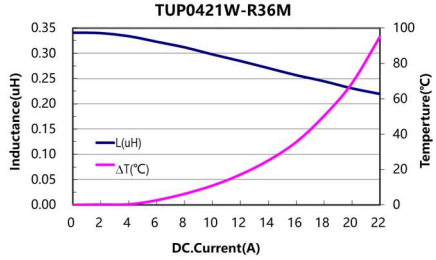
TUP0421W-R10M



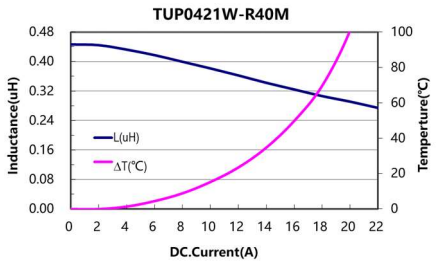
TUP0421W-R22M



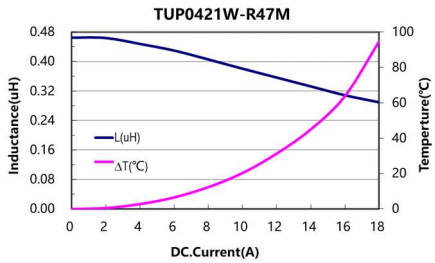
TUP0421W-R36M



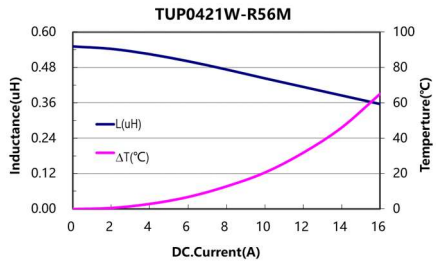
TUP0421W-R40M



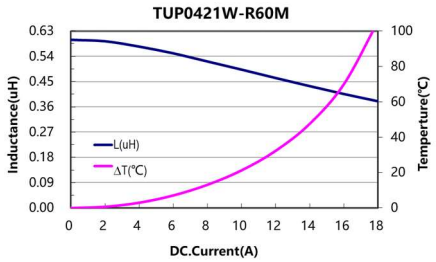
TUP0421W-R47M



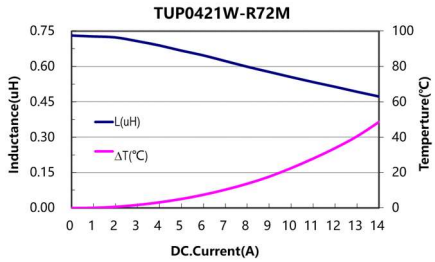
TUP0421W-R56M



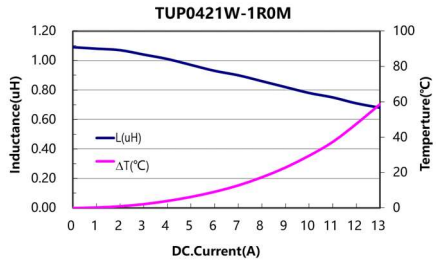
TUP0421W-R60M



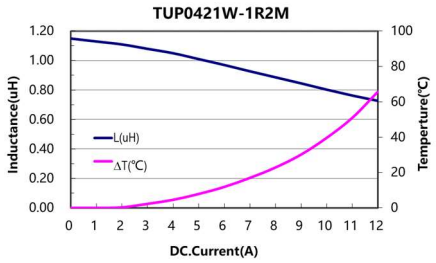
TUP0421W-R72M



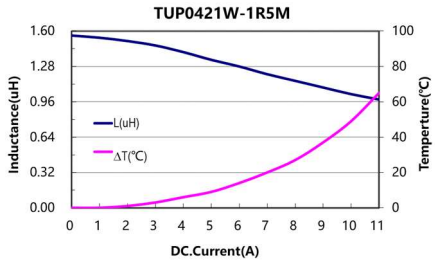
TUP0421W-1R0M



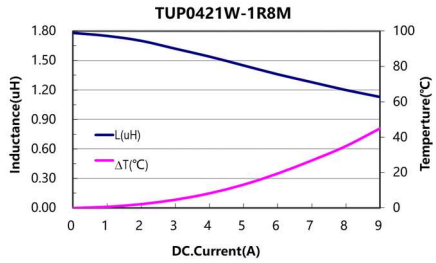
TUP0421W-1R2M



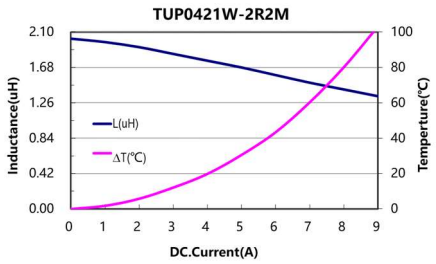
TUP0421W-1R5M



TUP0421W-1R8M



TUP0421W-2R2M



● TUP0403W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0403W-R47M	0.47	20	7.26	13.5	16.0	10.0	14.0
TUP0403W-R90M	0.90	20	10.1	9.2	10.0	8.2	11.2
TUP0403W-1R0M	1.00	20	10.1	9.2	9.8	8.0	11.0
TUP0403W-1R2M	1.20	20	11.5	8.7	9.2	7.8	9.8
TUP0403W-1R5M	1.50	20	13.2	7.0	8.0	7.0	9.0
TUP0403W-2R2M	2.20	20	22.6	6.1	7.0	6.0	7.8
TUP0403W-3R3M	3.30	20	28.6	5.3	6.2	5.0	6.6
TUP0403W-4R7M	4.70	20	44.1	4.0	4.5	3.9	5.1
TUP0403W-6R8M	6.80	20	74.1	3.0	3.6	3.0	3.9

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

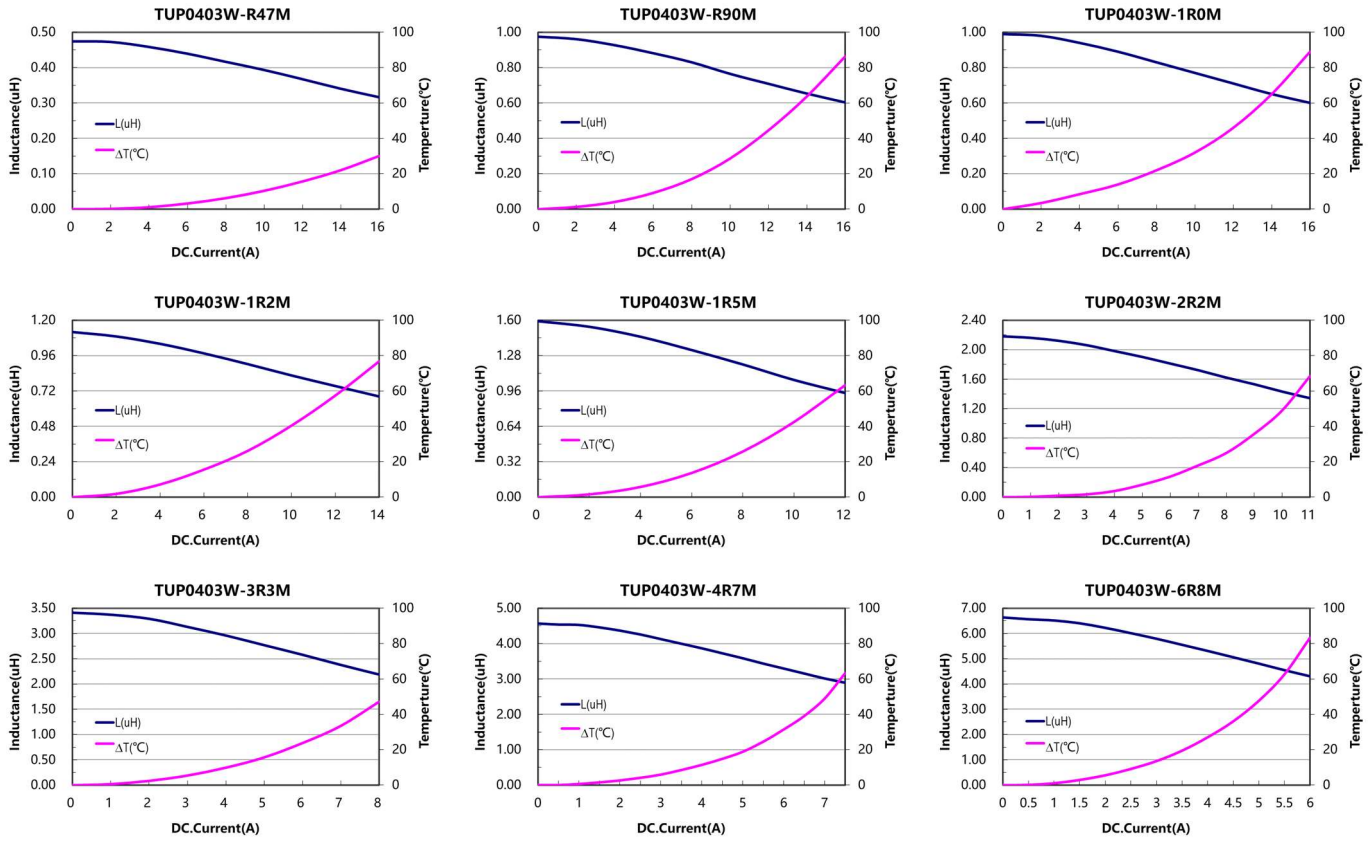
Note 2: Test Condition :100KHz ,0.1 Vrms.

Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%
Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

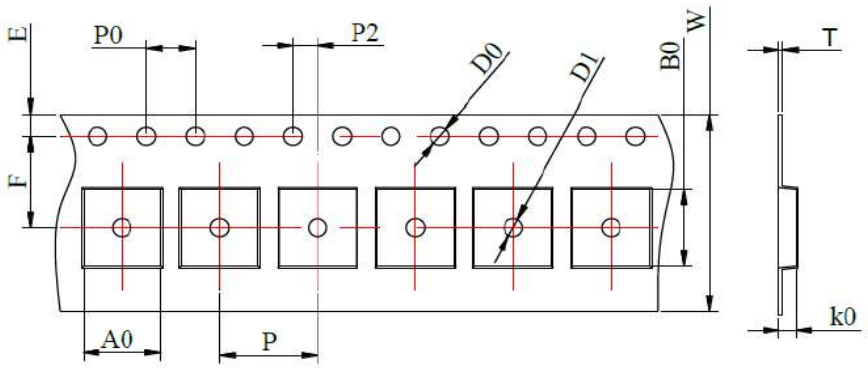
Typical performance curves :



* 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.

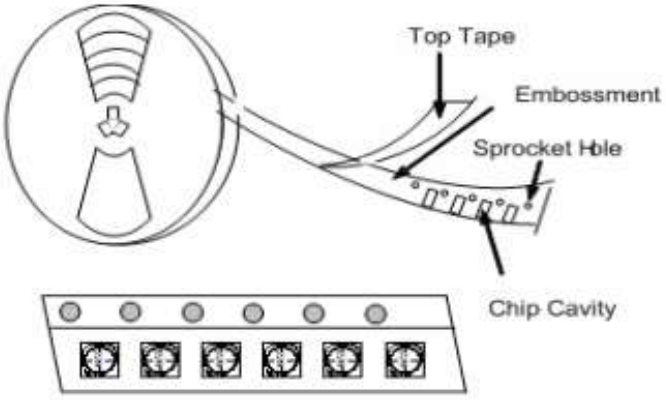
Packaging Information

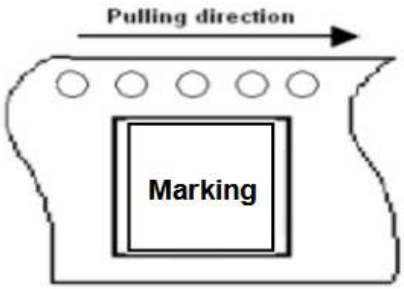
(1) Tape Packaging Dimensions（Unit：mm）



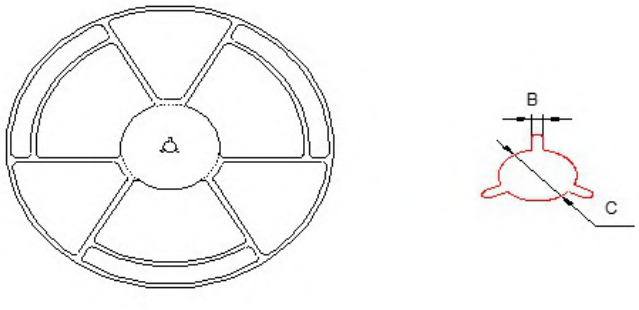
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP0421W	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	4.5±0.1	4.5±0.1	2.3±0.1	1.75±0.1	5.5±0.1
TUP0403W	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	4.5±0.1	4.5±0.1	3.3±0.1	1.75±0.1	5.5±0.1





(2) Reel Dimensions（Unit：mm）

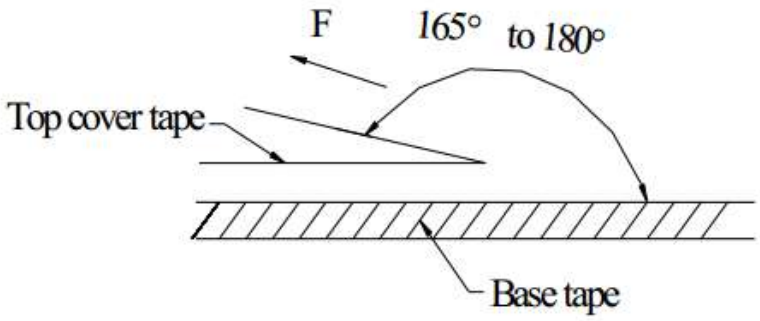


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP0421W	330+2.0	12.8±0.2	97±0.5	2.2+0.5	13.0±0.2	3000
TUP0403W	330+2.0	12.8±0.2	97±0.5	2.2+0.5	13.0±0.2	2000

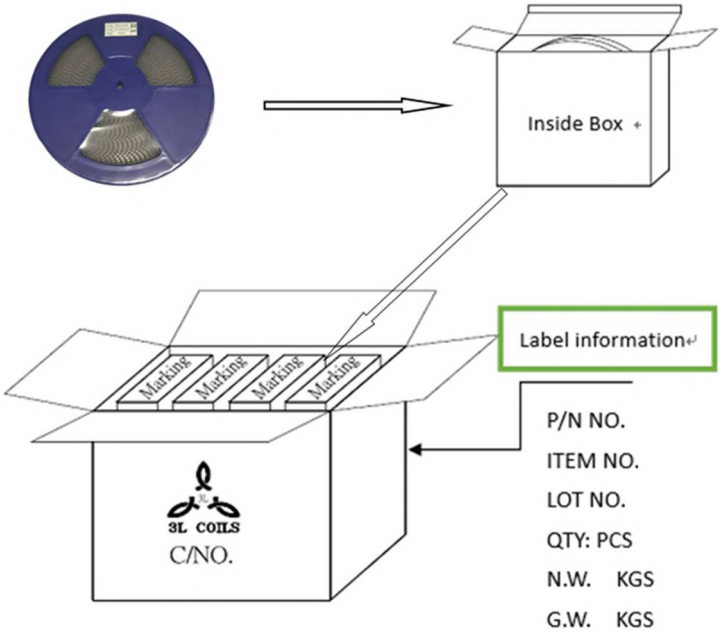
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP0421W	**12000**	**48000**
TUP0403W	**8000**	**32000**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

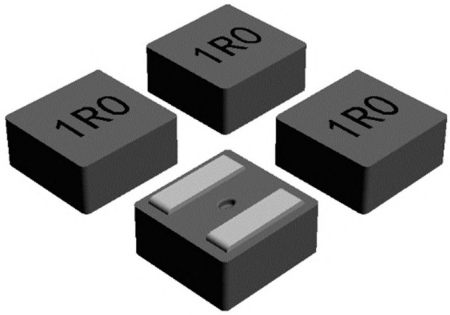
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP05-W SERIES

HF Halogen Free RoHS COMPLIANT

HIGH POWER INDUCTOR



Applications:

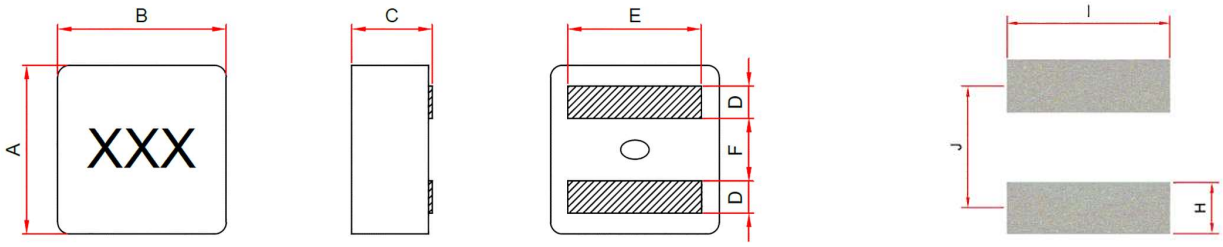
· DC/DC converter for CPU in Notebook PC

· Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

· Thin type on-board power supply module for exchanger

· VRM for server

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP0521W	5.30±0.2	5.50±0.2	2.10 Max	1.10±0.3	4.30±0.3	2.30±0.3	1.25	4.70	3.25
TUP0531W	5.30±0.2	5.50±0.2	3.10 Max	1.10±0.3	4.30±0.3	2.30±0.3	1.25	4.70	3.25
TUP0505W	5.30±0.2	5.50±0.2	5.00 Max	1.10±0.3	4.30±0.3	2.30±0.3	1.25	4.70	3.25

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Magnetically Shielded.

· Compliance with RoHS and Halogen Free

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 125℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

TUP 0521 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（0521：length & width=5mm，Thickness=2.1mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.

· DCR: Chroma16502 Milliohm Meter

● TUP0521W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0521W-R15M	0.15	20	4.60	27.0	30.0	13.9	18.8
TUP0521W-R16M	0.16	20	4.60	27.0	30.0	13.9	18.8
TUP0521W-R33M	0.33	20	7.00	24.0	26.0	10.5	14.4
TUP0521W-R47M	0.47	20	8.05	20.0	22.0	10.1	14.1
TUP0521W-R56M	0.56	20	9.54	16.0	19.0	9.9	13.9
TUP0521W-R68M	0.68	20	10.2	14.0	16.0	9.6	13.4
TUP0521W-R80M	0.80	20	11.8	13.5	15.5	9.4	13.0
TUP0521W-R82M	0.82	20	12.7	13.0	15.0	8.5	12.0
TUP0521W-1R0M	1.00	20	13.8	12.8	14.5	7.5	10.5
TUP0521W-1R2M	1.20	20	16.3	12.2	14.0	6.8	9.40
TUP0521W-1R5M	1.50	20	18.7	10.0	12.0	6.4	8.80

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

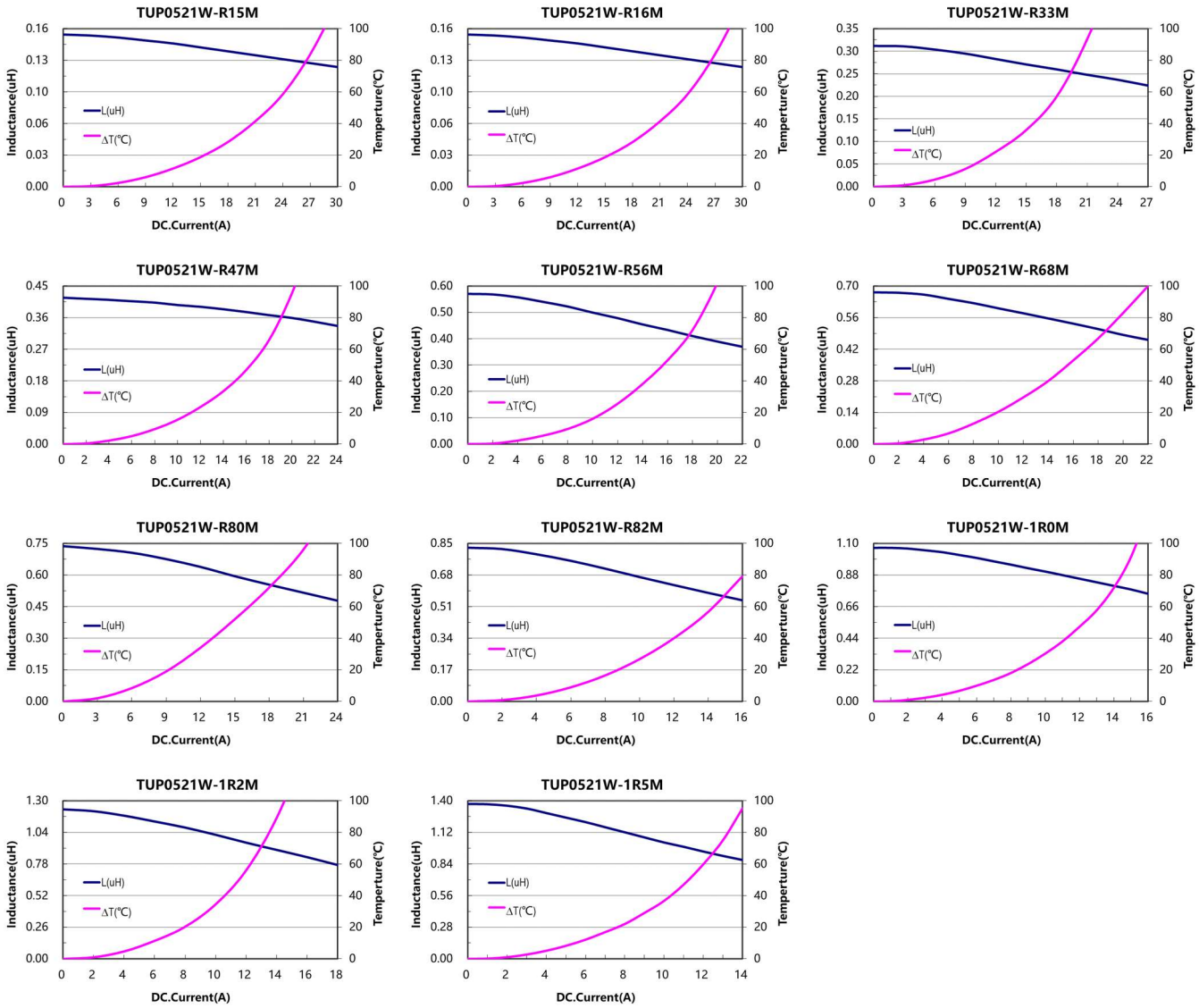
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP0531W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0531W-R15M	0.15	20	2.31	32.5	36.0	14.3	22.2
TUP0531W-R16M	0.16	20	2.33	32.0	35.0	14.2	22.2
TUP0531W-R33M	0.33	20	3.52	26.0	28.0	13.8	19.2
TUP0531W-R47M	0.47	20	4.13	24.0	26.0	13.7	18.4
TUP0531W-R56M	0.56	20	4.52	20.2	22.2	13.6	17.7
TUP0531W-R60M	0.60	20	4.52	20.0	22.0	13.6	17.7
TUP0531W-R80M	0.80	20	5.65	18.0	20.0	10.1	13.1
TUP0531W-R82M	0.82	20	5.78	17.6	19.7	9.9	12.9
TUP0531W-1R0M	1.00	20	7.60	14.3	16.5	9.0	12.2
TUP0531W-1R2M	1.20	20	9.70	13.5	15.0	8.5	11.0
TUP0531W-1R5M	1.50	20	11.2	12.5	14.0	8.0	10.5
TUP0531W-1R8M	1.80	20	12.7	11.3	12.3	7.6	10.1
TUP0531W-2R2M	2.20	20	14.5	9.0	10.0	7.2	9.7
TUP0531W-3R3M	3.30	20	23.1	8.7	9.5	5.9	8.1
TUP0531W-4R7M	4.70	20	36.3	7.0	8.2	4.3	5.9

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

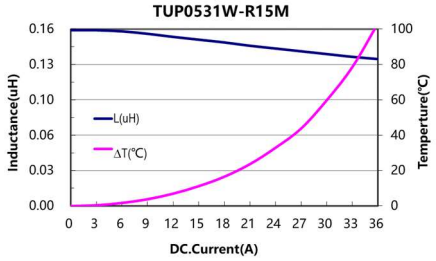
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

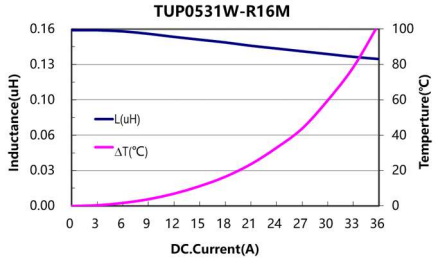
Irms : DC current（A）that will cause an approximate ΔT of 40℃

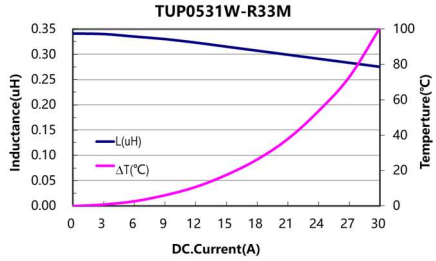
Note 4: Operating temperature range includes self-temperature rise.

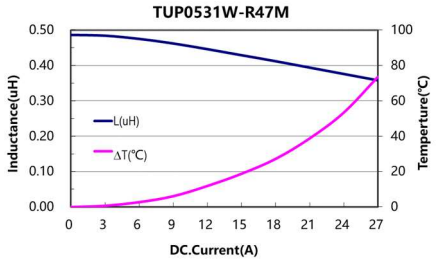
Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

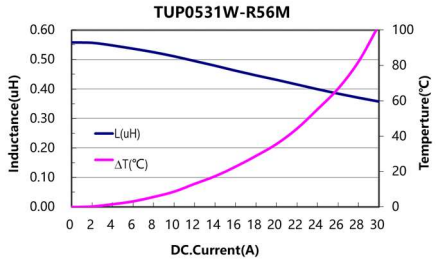
Typical performance curves :

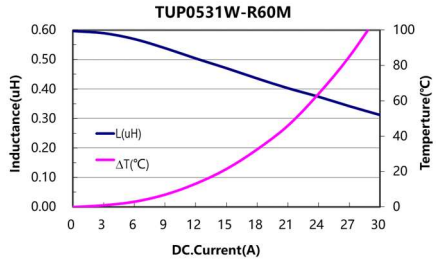


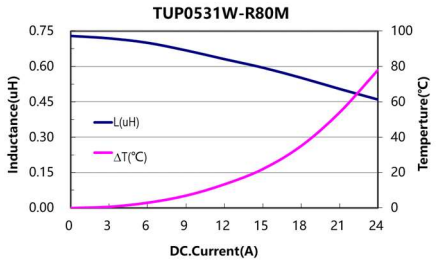


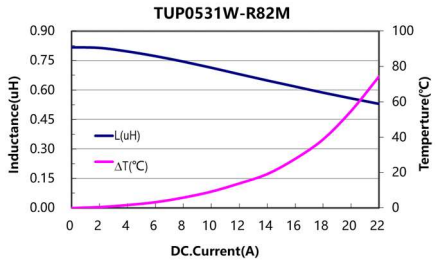


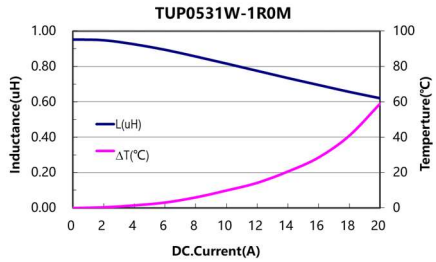


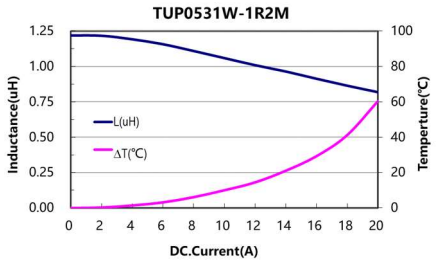


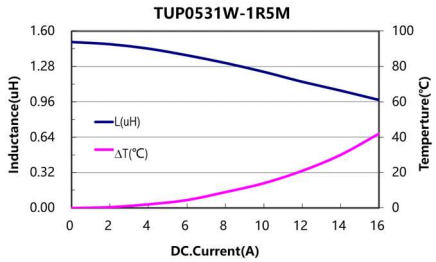


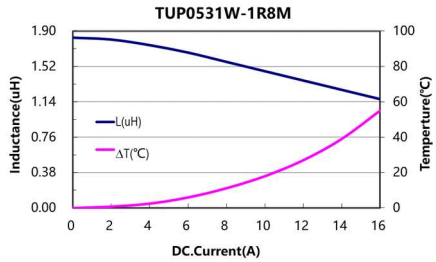


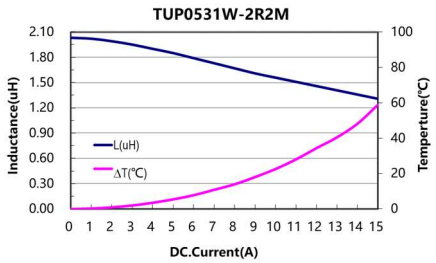


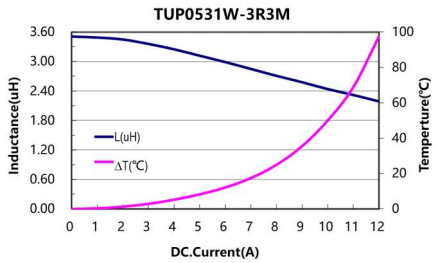


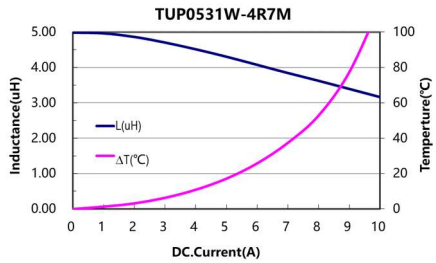












● TUP0505W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0505W-5R6M	5.60	20	24.2	7.2	8.6	5.3	7.2
TUP0505W-6R8M	6.80	20	28.6	6.6	7.8	4.8	6.4
TUP0505W-8R2M	8.20	20	32.5	6.1	7.2	4.6	6.1
TUP0505W-100M	10.0	20	43.0	5.4	6.5	3.8	5.0
TUP0505W-150M	15.0	20	76.7	3.2	3.7	3.0	3.9
TUP0505W-220M	22.0	20	99.65	3.0	3.6	2.5	3.4

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

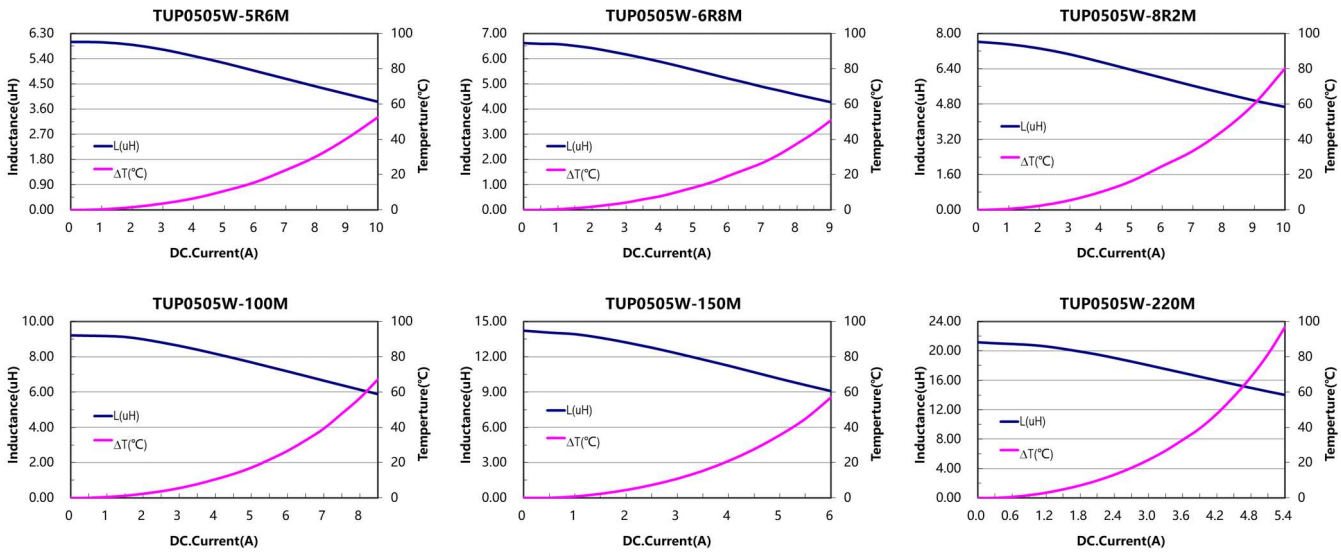
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

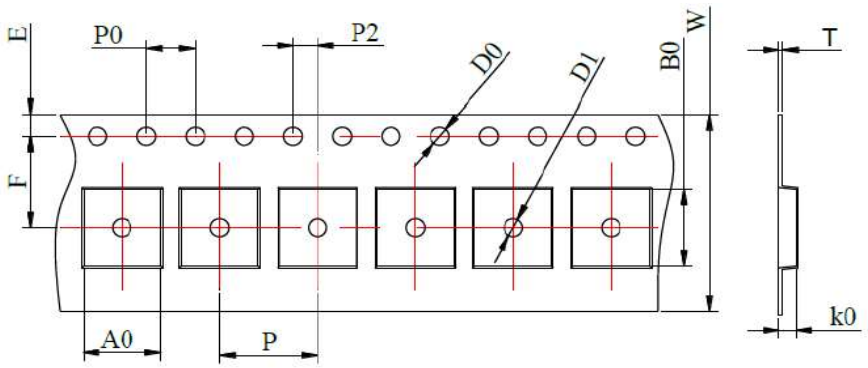
Typical performance curves :



* 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.

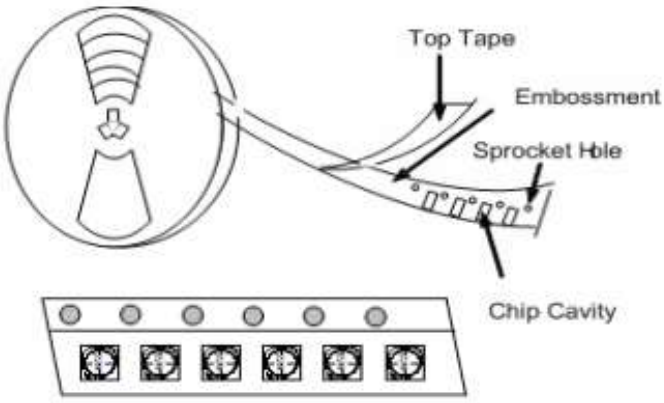
Packaging Information

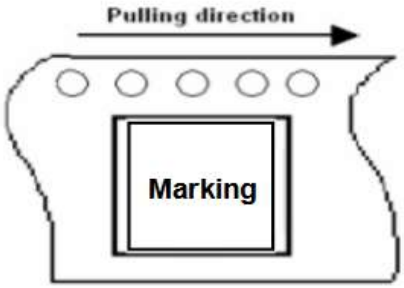
(1) Tape Packaging Dimensions（Unit：mm）



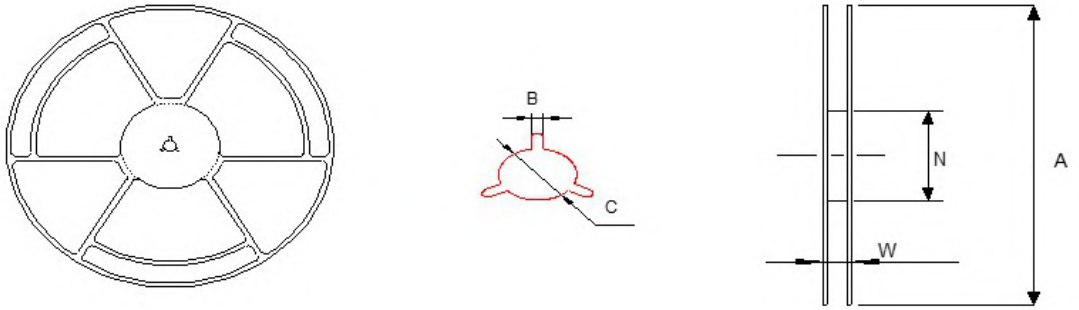
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP0521W	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	6.0±0.1	5.7±0.1	2.3±0.1	1.75±0.1	5.5±0.1
TUP0531W	16±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	6.0±0.1	5.7±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TUP0505W	16±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	6.0±0.1	5.7±0.1	5.3±0.1	1.75±0.1	7.5±0.1





(2) Reel Dimensions（Unit：mm）

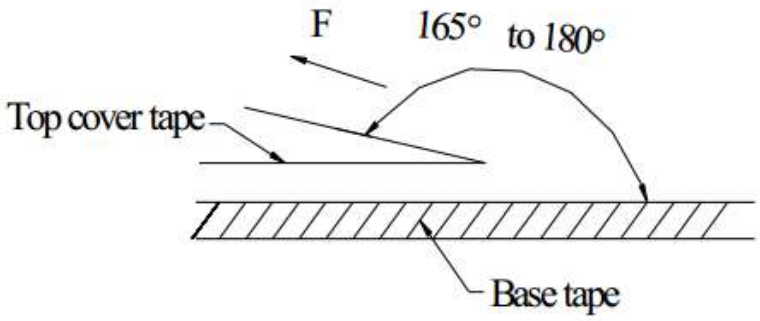


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP0521W	330+2.0	12.8±0.2	97±0.5	2.2+0.5	13.2±0.2	3000
TUP0531W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	2000
TUP0505W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	1500

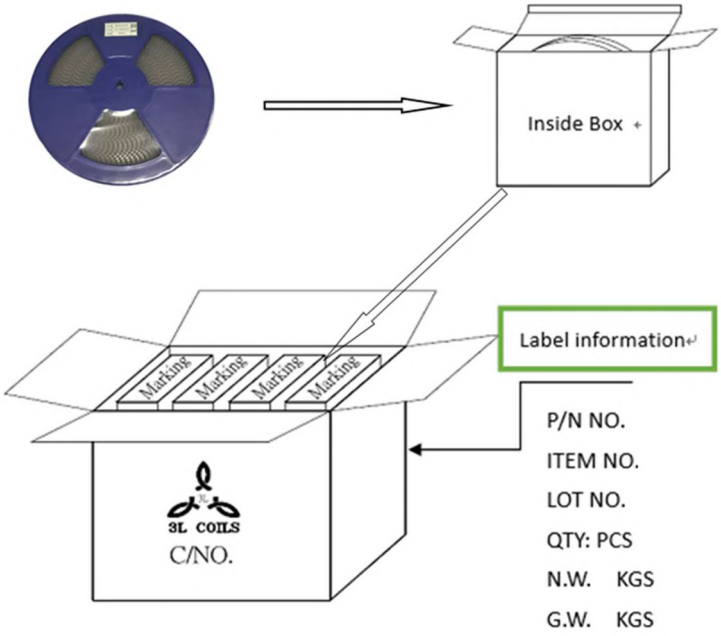
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP0521W	**9000**	**36000**
TUP0531W	**6000**	**24000**
TUP0505W	**4500**	**18000**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

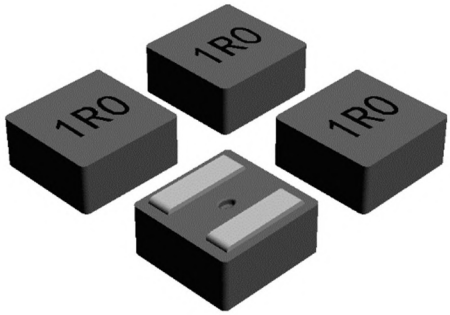
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP06-W SERIES

HF Halogen Free RoHS COMPLIANT

HIGH POWER INDUCTOR



Applications:

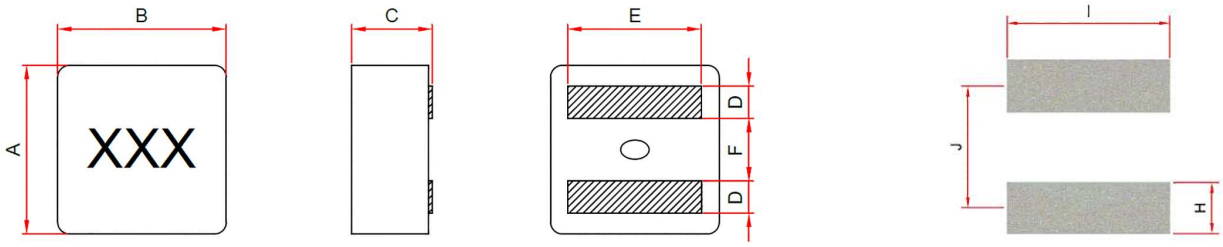
· DC/DC converter for CPU in Notebook PC

· Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

· Thin type on-board power supply module for exchanger

· VRM for server

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP0631W	6.40±0.2	6.60±0.2	3.10 Max	1.40±0.3	See table	2.60±0.3	1.55	5.60	4.05
TUP0605W	6.40±0.2	6.60±0.2	5.00 Max	1.40±0.3	See table	2.60±0.3	1.55	5.60	4.05
TUP0606W	6.40±0.2	6.60±0.2	6.00 Max	1.40±0.3	5.30±0.3	2.60±0.3	1.55	5.60	4.05

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Magnetically Shielded.

· Compliance with RoHS and Halogen Free

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 125℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

TUP 0631 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（0631：length & width=6mm，Thickness=3.1mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.

· DCR: Chroma16502 Milliohm Meter

● TUP0631W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0631W-R18M	0.18	20	1.75	36.0	40.0	24.0	32.0	5.30
TUP0631W-R33M	0.33	20	2.50	28.0	32.0	20.0	25.0	5.55
TUP0631W-R56M	0.56	20	3.31	25.0	29.0	17.0	22.0	5.30
TUP0631W-R68M	0.68	20	5.17	21.0	25.0	15.0	20.0	5.30
TUP0631W-1R0M	1.00	20	6.05	18.0	22.0	13.0	18.0	5.20
TUP0631W-1R2M	1.20	20	7.40	16.0	21.0	12.0	16.0	5.15
TUP0631W-1R5M	1.50	20	9.13	13.5	17.5	11.0	15.0	5.15
TUP0631W-1R8M	1.80	20	10.2	13.0	16.0	10.0	14.0	5.10
TUP0631W-2R2M	2.20	20	12.2	11.0	15.9	7.00	10.0	5.05
TUP0631W-3R3M	3.30	20	20.8	9.00	12.2	6.00	8.00	5.00
TUP0631W-4R5M	4.50	20	25.3	8.00	10.0	5.00	7.00	5.00

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

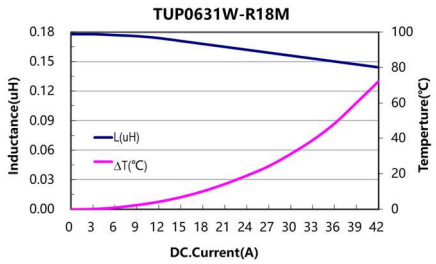
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

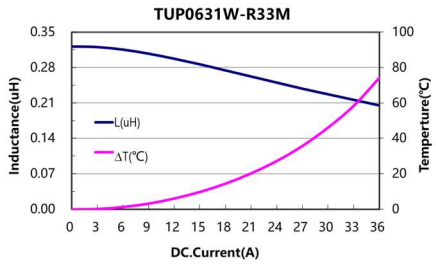
Irms : DC current（A）that will cause an approximate ΔT of 40℃

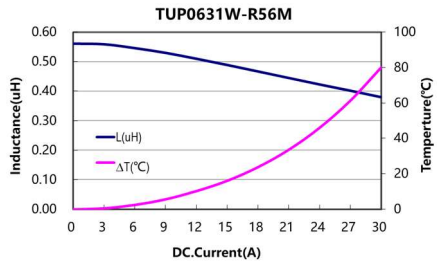
Note 4: Operating temperature range includes self-temperature rise.

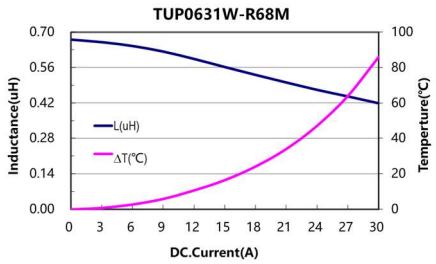
Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

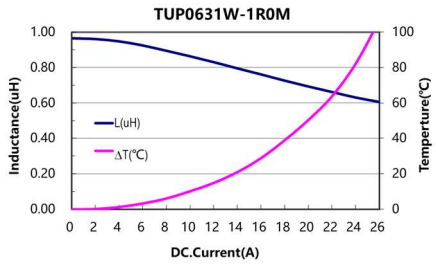
Typical performance curves :

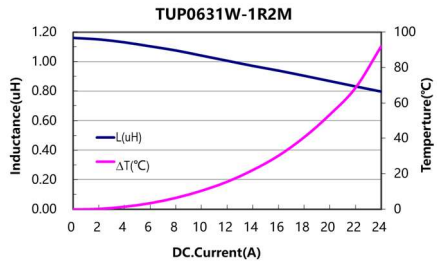


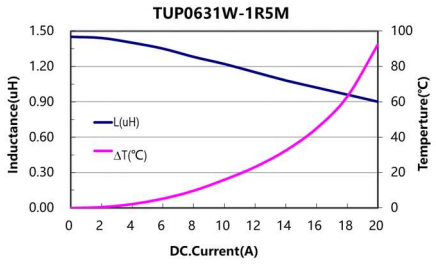


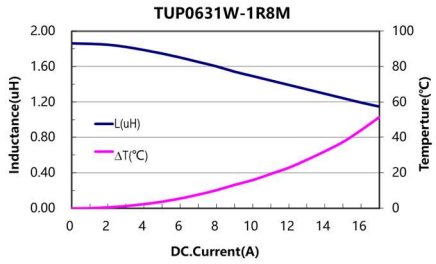


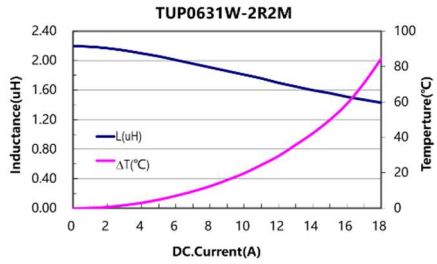


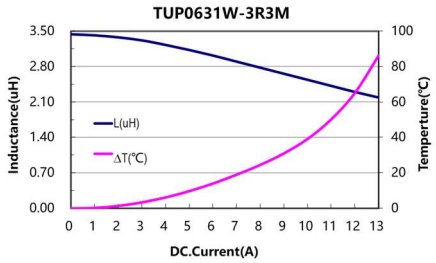


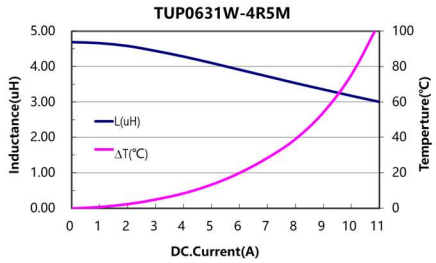












● TUP0605W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0605W-R82M	0.82	20	4.18	18.0	23.0	16.0	21.0	5.30
TUP0605W-1R0M	1.00	20	4.52	18.0	23.0	15.0	20.0	5.30
TUP0605W-1R2M	1.20	20	5.83	16.0	20.5	14.0	18.0	5.30
TUP0605W-1R5M	1.50	20	6.30	14.5	19.5	13.0	17.0	5.30
TUP0605W-1R8M	1.80	20	7.10	13.5	17.5	12.0	16.0	5.30
TUP0605W-2R2M	2.20	20	8.50	12.0	14.5	10.0	13.0	5.20
TUP0605W-3R3M	3.30	20	12.5	10.0	12.5	8.5	11.0	5.20
TUP0605W-4R3M	4.30	20	16.2	8.5	11.0	7.0	9.0	5.20
TUP0605W-4R7M	4.70	20	18.4	8.0	10.5	6.5	8.5	5.20

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

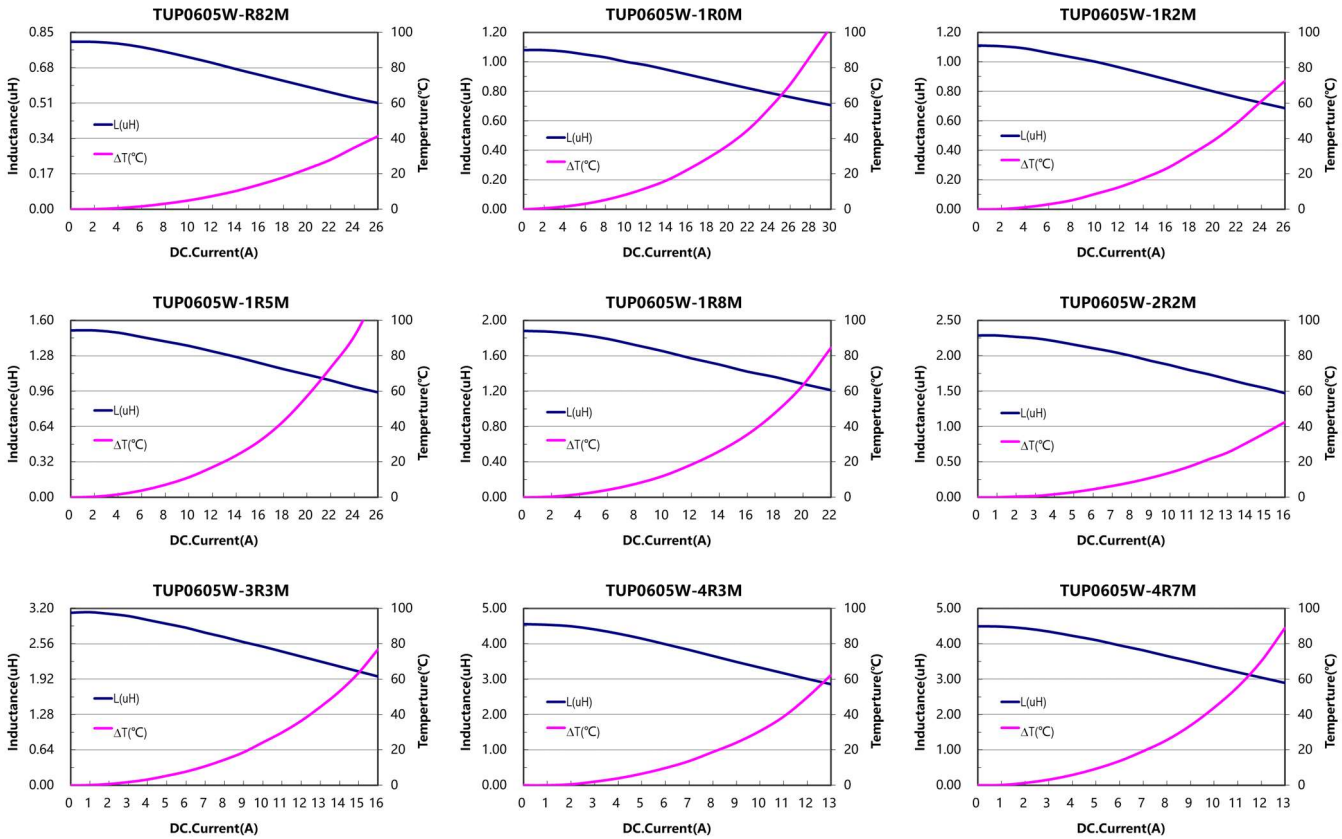
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP0606W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP0606W-1R0M	1.0	20	4.4	19.0	24.0	16.0	21.0
TUP0606W-1R5M	1.5	20	6.1	15.0	20.0	13.5	17.5
TUP0606W-2R2M	2.2	20	8.1	12.5	15.5	11.0	14.0
TUP0606W-3R3M	3.3	20	12.3	11.0	13.0	9.0	12.0
TUP0606W-4R7M	4.7	20	14.4	9.3	10.5	8.5	11.0
TUP0606W-5R6M	5.6	20	15.9	8.7	9.9	7.6	10.0
TUP0606W-6R8M	6.8	20	20.8	8.1	9.2	7.0	9.0
TUP0606W-8R2M	8.2	20	26.4	8.0	8.4	6.0	8.0
TUP0606W-100M	10.0	20	29.82	6.8	7.6	5.0	7.0
TUP0606W-150M	15.0	20	43.75	5.0	5.8	4.5	6.0
TUP0606W-220M	22.0	20	60.63	4.8	5.6	3.8	5.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

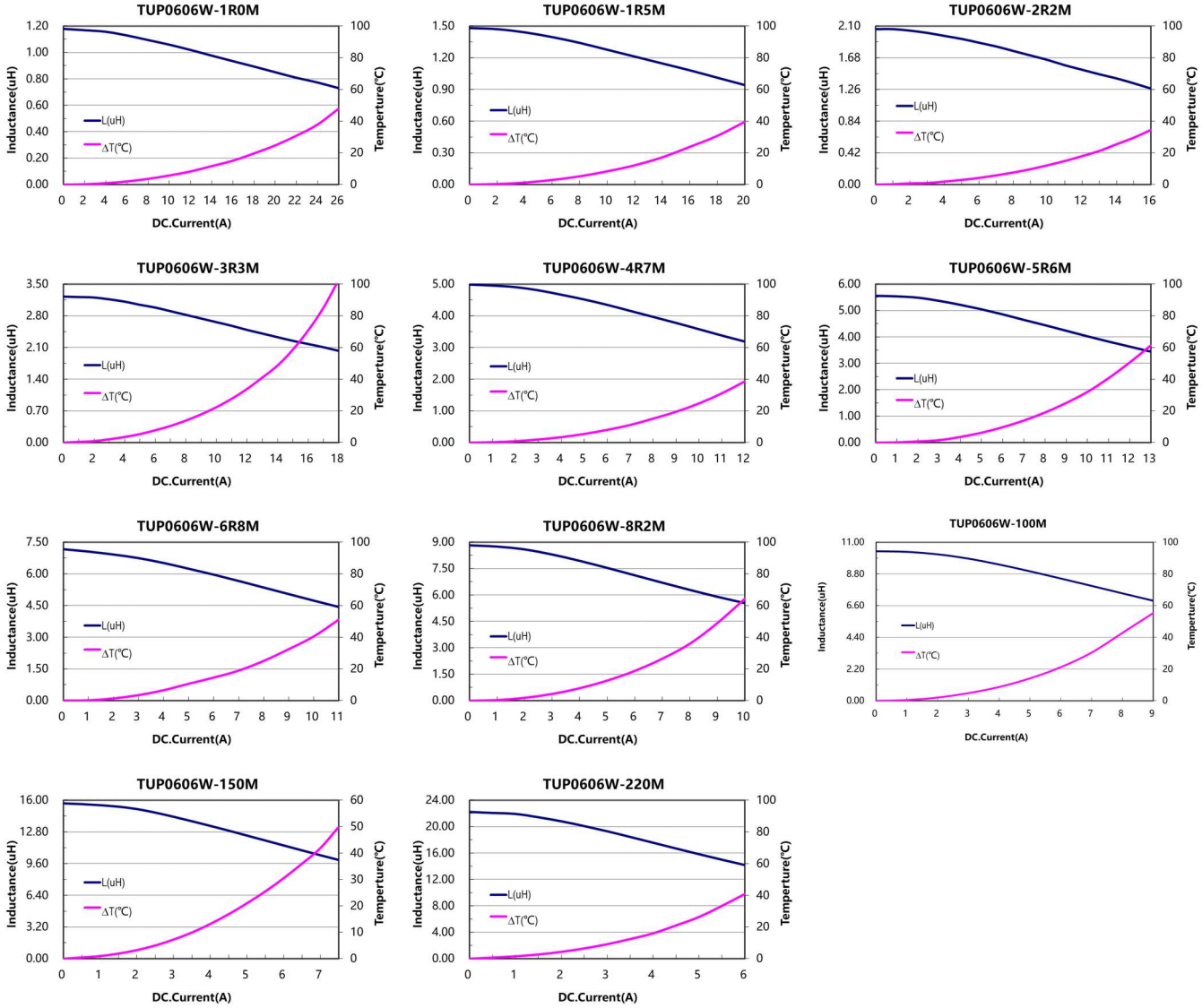
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

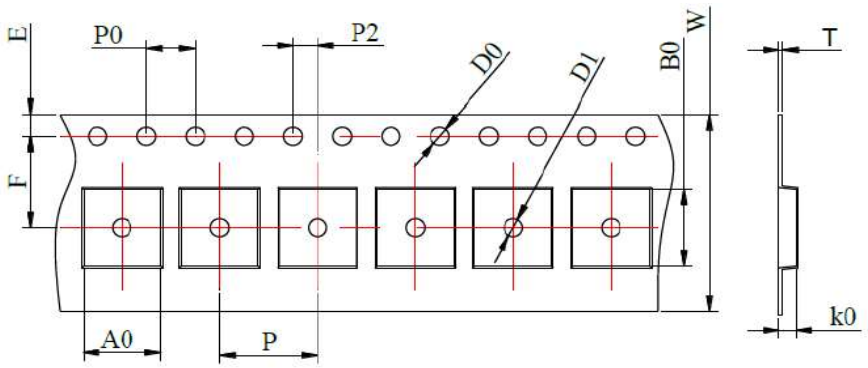
Typical performance curves :



* 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.

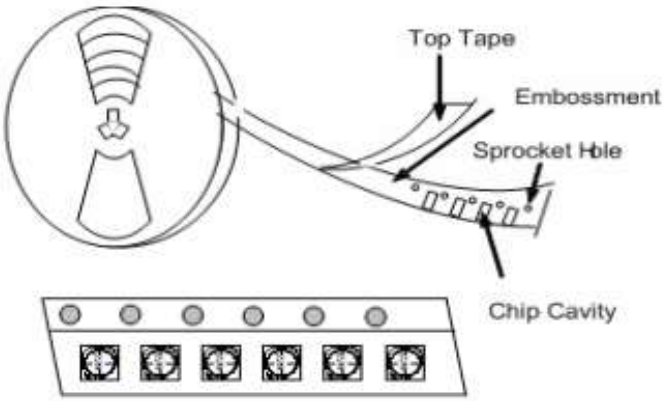
Packaging Information

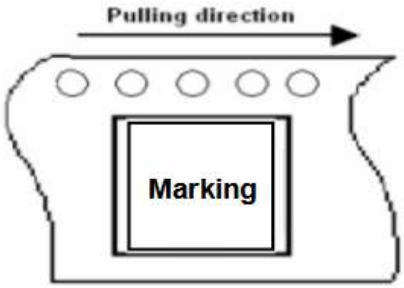
(1) Tape Packaging Dimensions（Unit：mm）



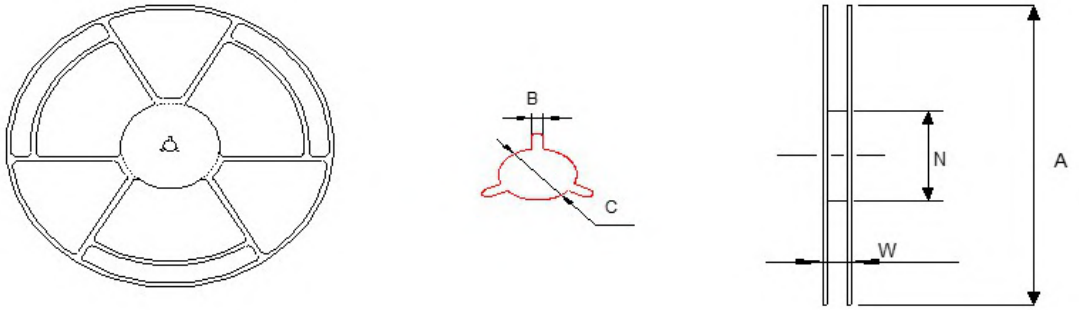
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP0631W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	7.0±0.1	6.8±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TUP0605W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	7.0±0.1	6.8±0.1	5.3±0.1	1.75±0.1	7.5±0.1
TUP0606W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	7.0±0.1	6.8±0.1	6.3±0.1	1.75±0.1	7.5±0.1





(2) Reel Dimensions（Unit：mm）

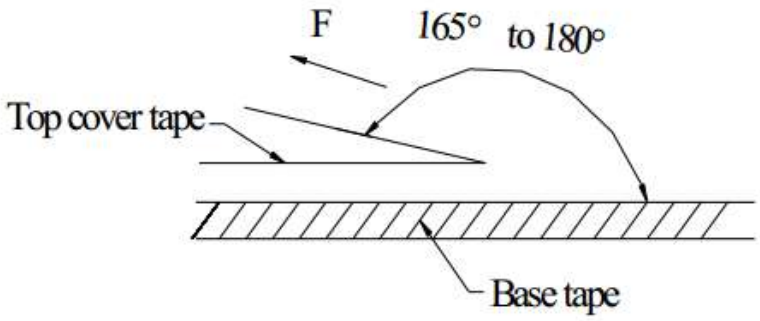


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP0631W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	1000
TUP0605W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	800
TUP0606W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	750

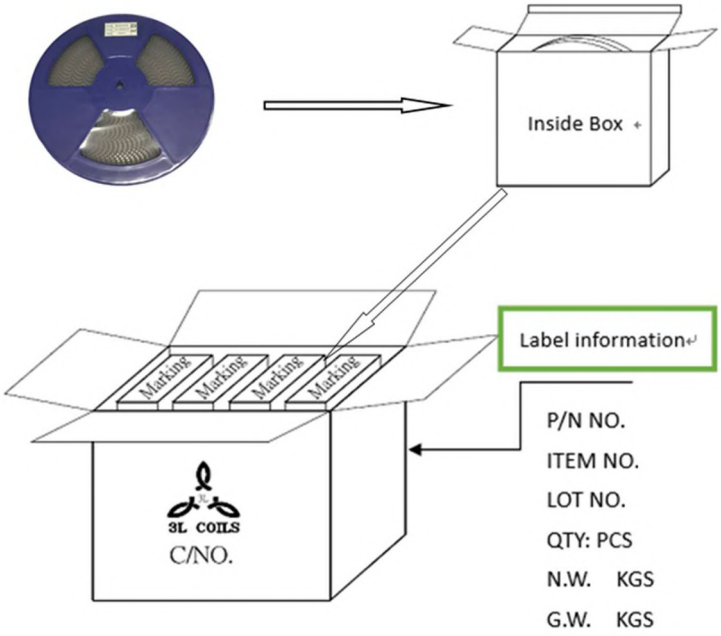
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP0631W	**3000**	**12000**
TUP0605W	**2400**	**9600**
TUP0606W	**2250**	**9000**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

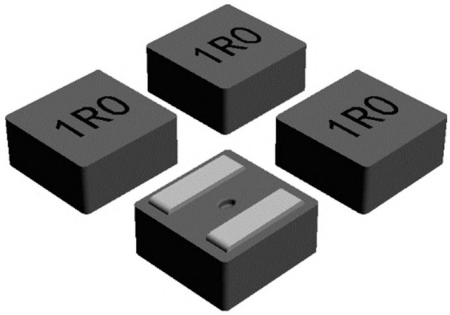
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP07-W SERIES

HF Halogen Free RoHS COMPLIANT

HIGH POWER INDUCTOR



Applications:

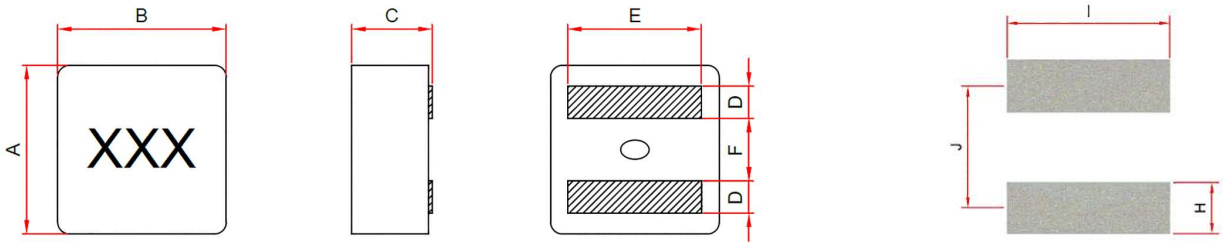
· DC/DC converter for CPU in Notebook PC

· Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

· Thin type on-board power supply module for exchanger

· VRM for server

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP0721W	7.60±0.20	7.80±0.25	2.10 Max	1.75±0.3	See table	3.15±0.3	2.30	7.20	5.10
TUP0731W	7.60±0.20	7.80±0.25	3.10 Max	1.75±0.3	See table	3.15±0.3	2.30	7.20	5.10
TUP0707W	7.60±0.25	7.80±0.25	7.00 Max	1.75±0.3	See table	3.15±0.3	2.50	6.70	5.30

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Magnetically Shielded.

· Compliance with RoHS and Halogen Free

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 125℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

TUP 0721 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（0721：length & width=7mm，Thickness=2.1mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.

· DCR: Chroma16502 Milliohm Meter

● TUP0721W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0721W-R27M	0.27	20	3.5	27.0	35.0	16.0	21.0	6.60
TUP0721W-R31M	0.31	20	4.8	26.0	34.0	14.0	20.0	6.20
TUP0721W-R33M	0.33	20	4.8	26.0	34.0	13.0	19.0	6.20
TUP0721W-R47M	0.47	20	6.2	24.0	28.0	12.0	17.0	6.20
TUP0721W-R68M	0.68	20	9.2	22.0	25.0	10.0	13.0	6.20
TUP0721W-1R0M	1.00	20	10.8	20.0	23.0	8.0	11.0	6.20

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

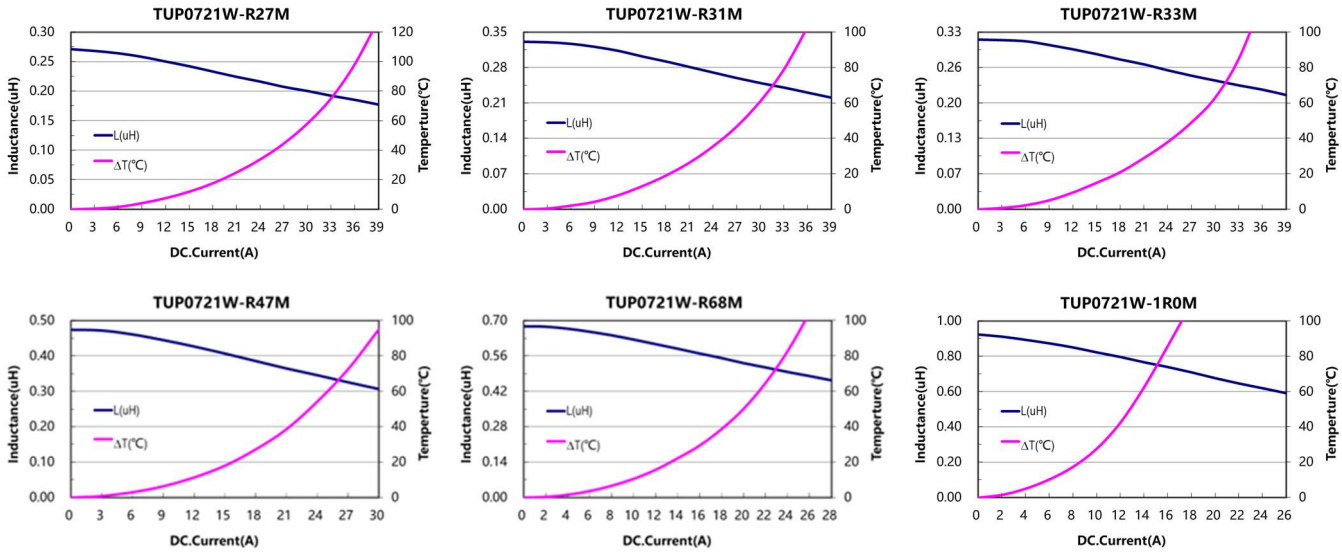
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP0731W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0731W-1R0M	1.00	20	5.00	22.5	27.0	16.1	21.8	6.60
TUP0731W-1R5M	1.50	20	8.25	20.5	23.5	12.0	15.3	6.60
TUP0731W-2R2M	2.20	20	13.7	17.0	19.0	10.0	13.0	6.20
TUP0731W-2R7M	2.70	20	15.4	13.5	16.0	9.20	11.4	6.20
TUP0731W-3R3M	3.30	20	18.0	13.0	15.0	8.00	10.0	6.20
TUP0731W-4R7M	4.70	20	26.7	9.5	12.0	6.90	9.00	6.20
TUP0731W-5R6M	5.60	20	33.2	9.0	11.0	5.30	7.30	6.20
TUP0731W-6R8M	6.80	20	42.5	8.0	10.0	4.50	6.80	6.20
TUP0731W-8R2M	8.20	20	48.73	7.0	9.0	3.00	5.90	6.20

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

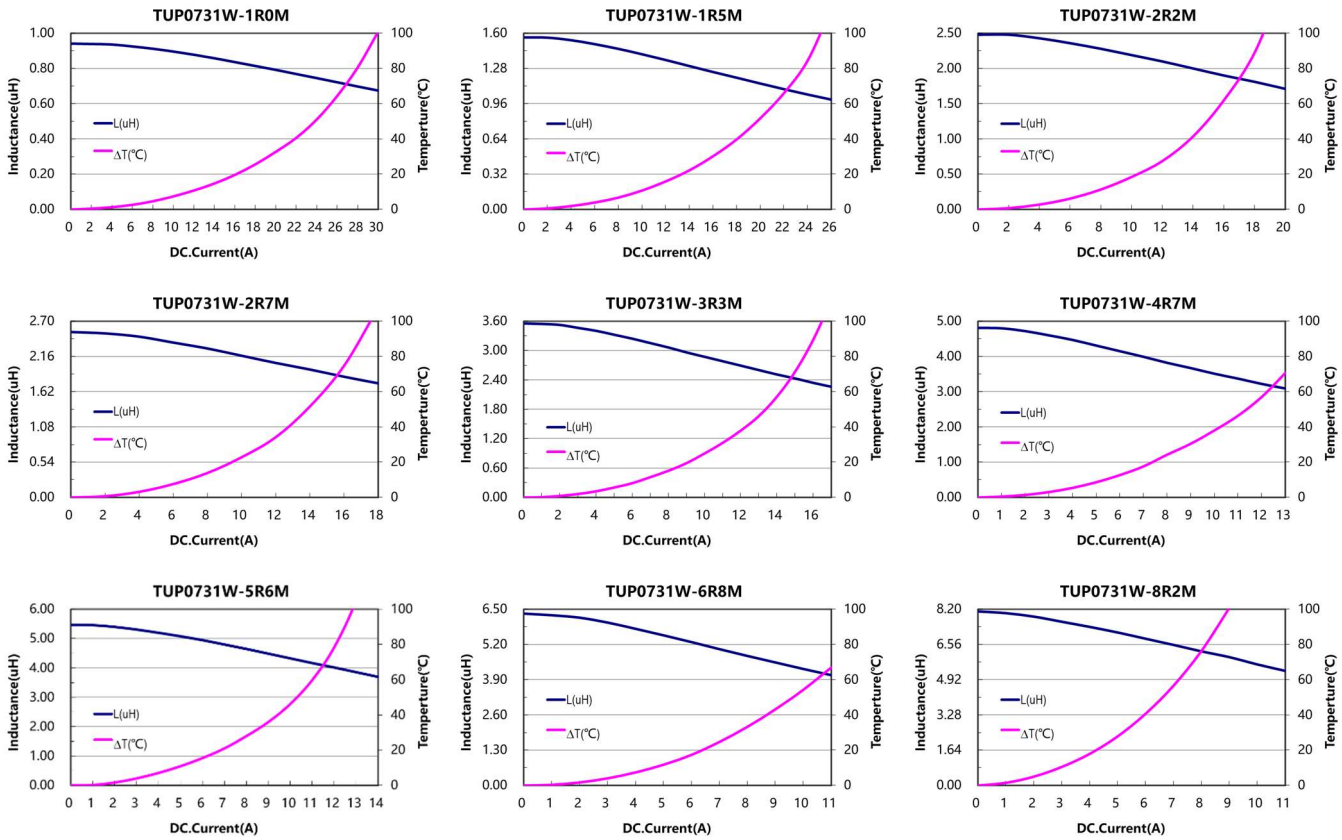
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP0707W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0707W-1R0M	1.0	20	2.81	31.8	34.8	20.0	25.0	6.70
TUP0707W-1R8M	1.8	20	4.46	21.5	25.0	15.8	21.0	6.70
TUP0707W-3R3M	3.3	20	9.42	13.5	17.0	11.5	15.1	6.70
TUP0707W-4R7M	4.7	20	13.5	11.0	14.0	10.5	13.6	6.70
TUP0707W-6R8M	6.8	20	19.6	10.0	12.0	7.0	9.5	6.50

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

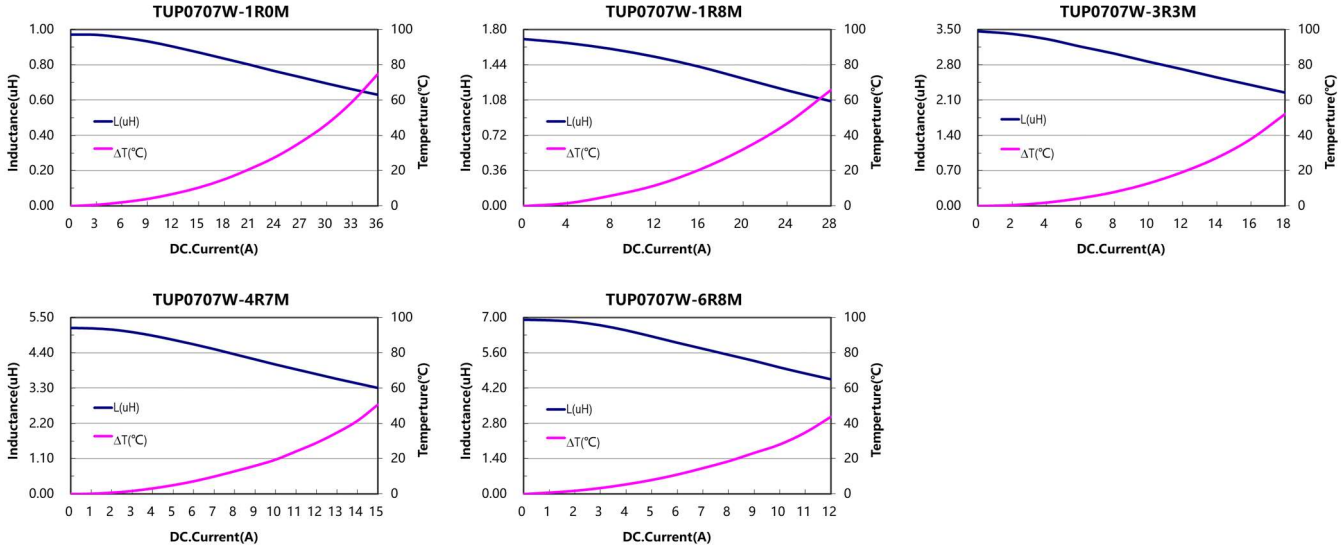
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

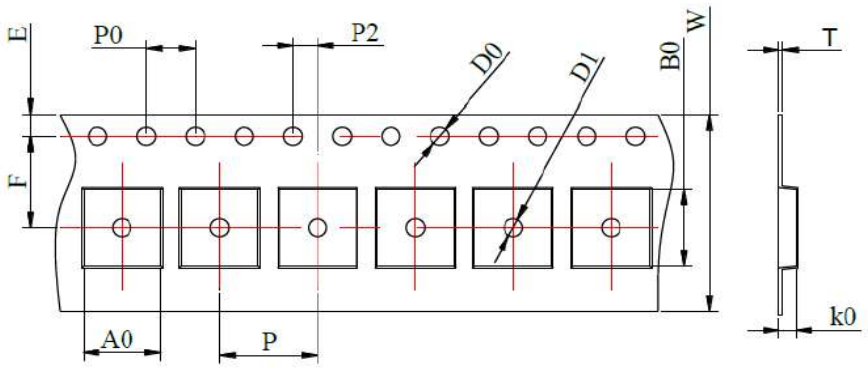
Typical performance curves :



* 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.

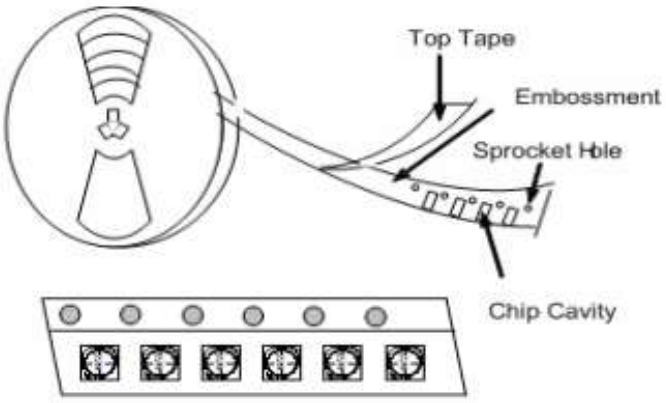
Packaging Information

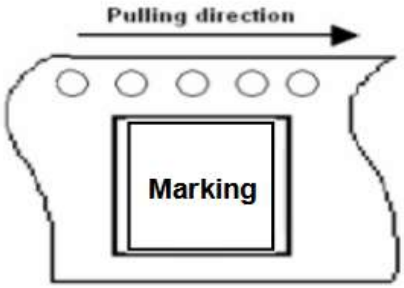
(1) Tape Packaging Dimensions（Unit：mm）



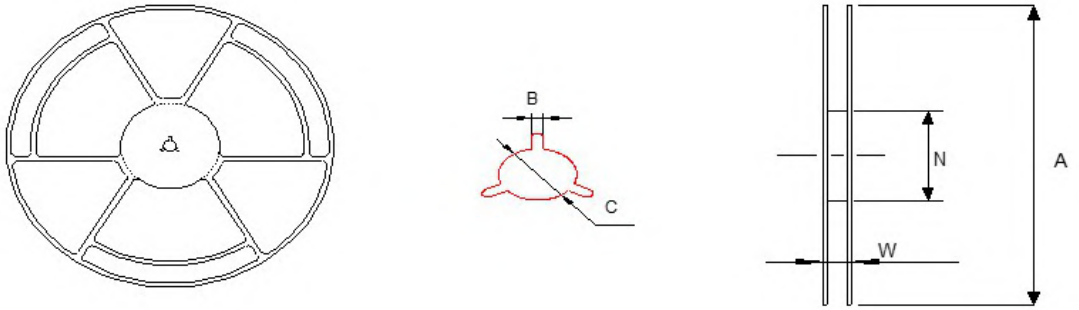
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP0721W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.2±0.1	8.0±0.1	2.3±0.1	1.75±0.1	7.5±0.1
TUP0731W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.2±0.1	8.0±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TUP0707W	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.2±0.1	8.0±0.1	7.3±0.1	1.75±0.1	7.5±0.1





(2) Reel Dimensions（Unit：mm）

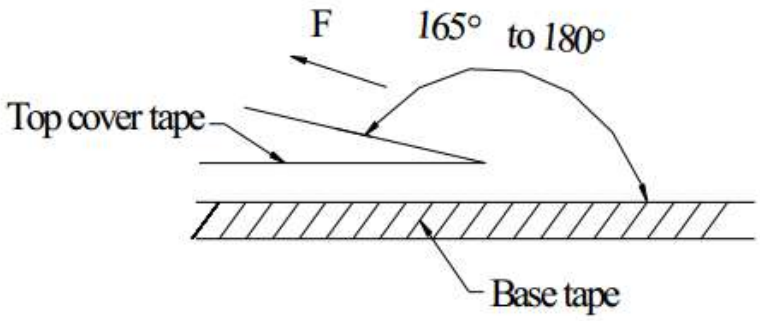


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP0721W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	2000
TUP0731W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	1500
TUP0707W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	700

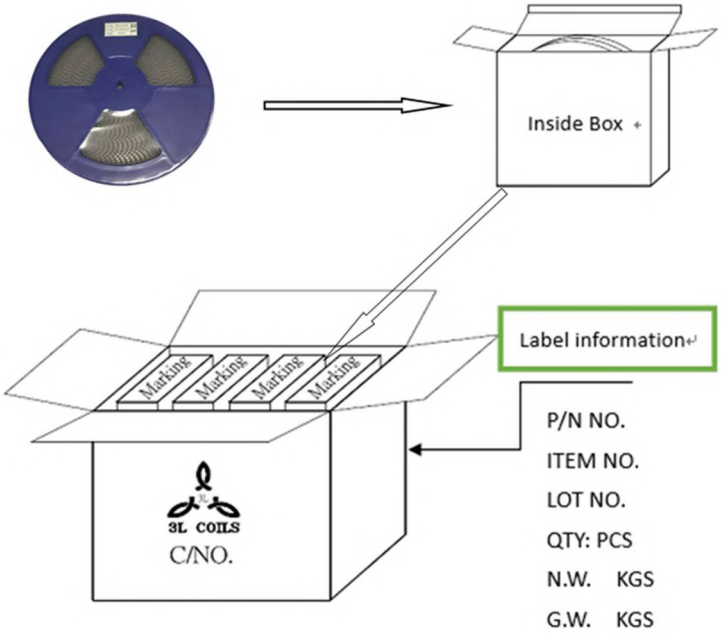
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP0721W	**6000**	**24000**
TUP0731W	**4500**	**18000**
TUP0707W	**2100**	**8400**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

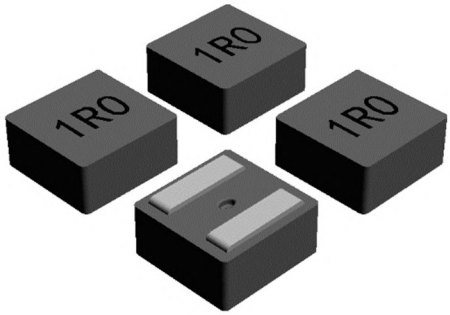
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP08-W SERIES

HF Halogen Free RoHS COMPLIANT

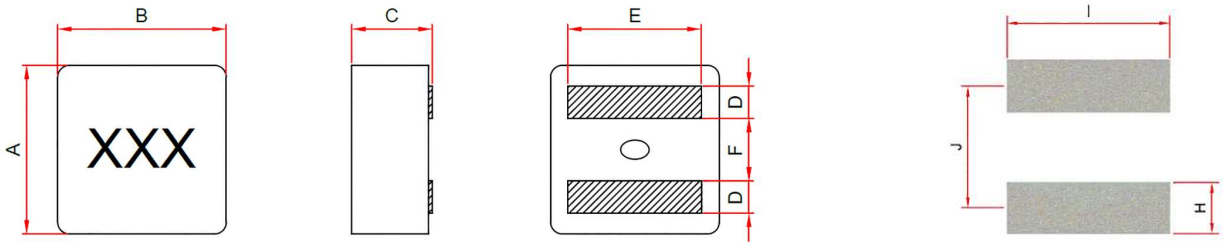
HIGH POWER INDUCTOR



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 (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP0808W	8.50±0.3	8.90±0.3	8.00 Max	1.80±0.3	See table	3.50±0.5	2.65	7.80	5.35

Features :

- High performance (Isat) realized by metal dust core.
- Low loss realized with low DCR
- Magnetically Shielded.
- Compliance with RoHS and Halogen Free

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃
- Operating Temperature : -55℃ to 125℃.

Handling and precautions :

- Please contact us before cleaning this product.

Product Identification :

TUP 0808 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（0808：length & width=8mm，Thickness=8mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment:

- L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.
- DCR: Chroma16502 Milliohm Meter

● TUP0808W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.3
TUP0808W-1R8M	1.8	20	4.0	22.5	28.0	18.0	24.0	7.20
TUP0808W-2R2M	2.2	20	4.3	21.0	24.0	16.0	21.5	7.20
TUP0808W-3R3M	3.3	20	7.3	18.0	21.0	13.5	18.0	6.90
TUP0808W-4R7M	4.7	20	9.8	15.0	19.0	10.5	14.6	6.90
TUP0808W-6R8M	6.8	20	14.3	12.5	14.5	8.0	11.3	6.90
TUP0808W-100M	10.0	20	22.9	8.5	11.0	6.6	8.7	6.90

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

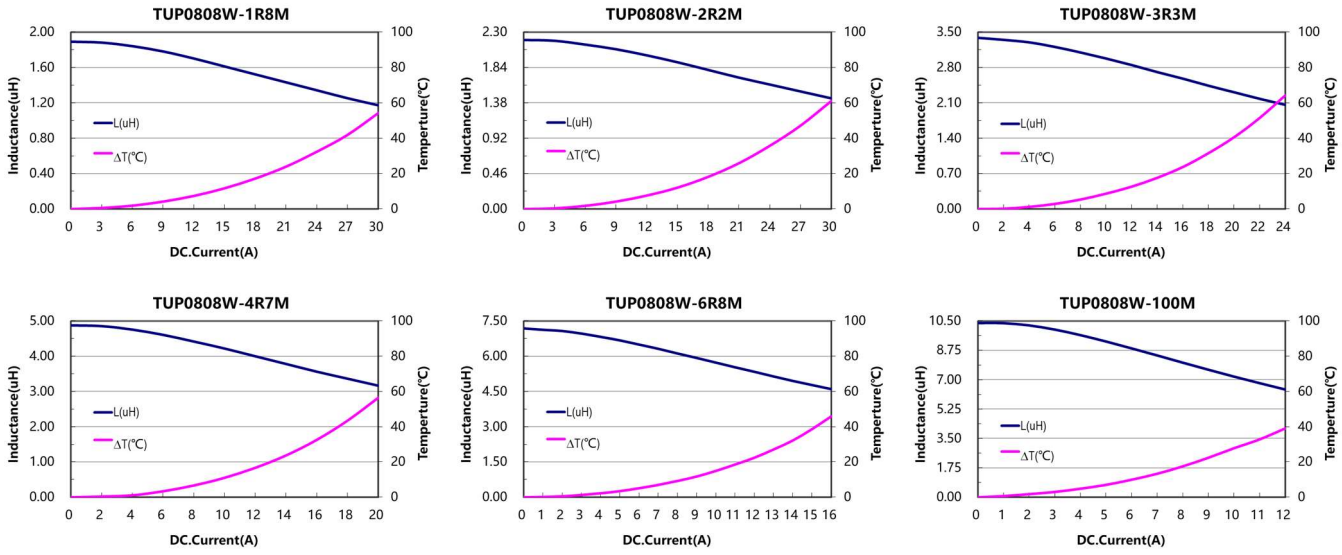
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

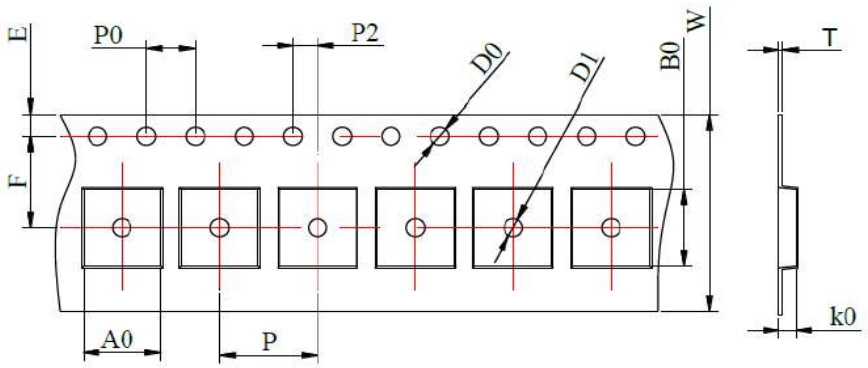
Typical performance curves :



* 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.

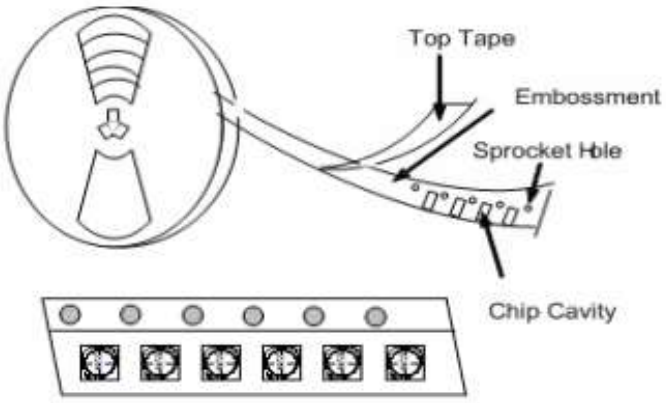
Packaging Information

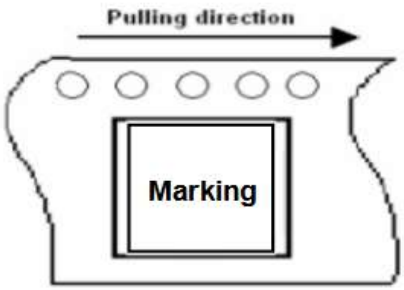
(1) Tape Packaging Dimensions（Unit：mm）



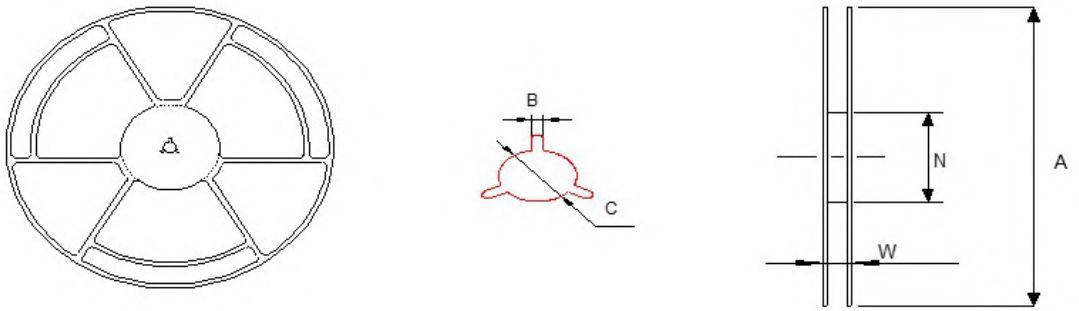
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP0808W	24±0.3	16±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.1	0.35±0.05	9.4±0.1	8.9±0.1	8.5±0.1	1.75±0.1	11.5±0.1





(2) Reel Dimensions（Unit：mm）

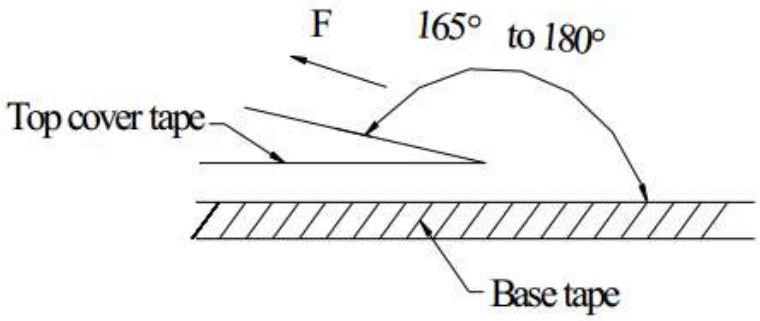


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP0808W	330+2.0	24.0±0.5	97±0.5	2.2+0.5	13.0±0.2	450

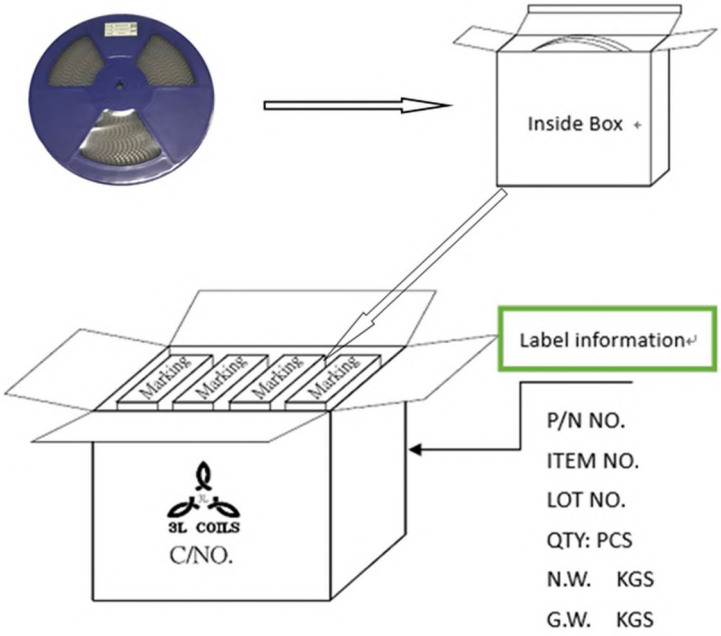
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP0808W	**900**	**3600**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

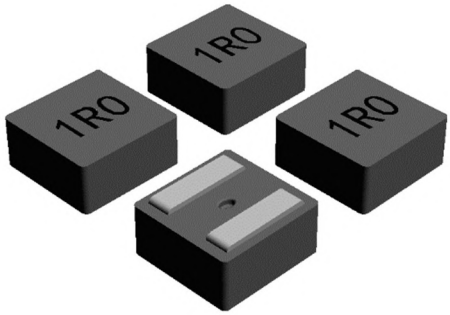
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP10-W SERIES

HF Halogen Free RoHS COMPLIANT

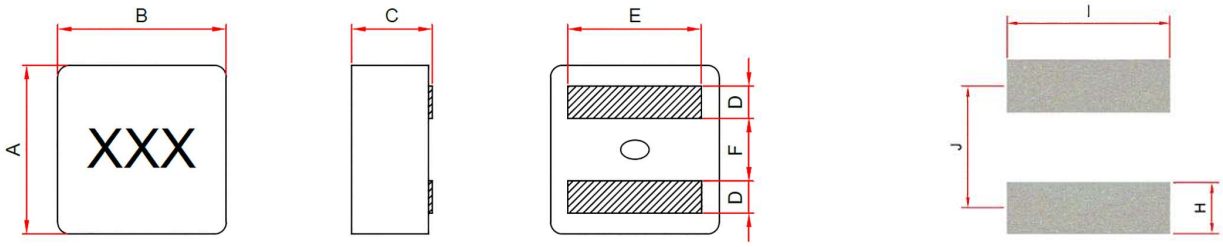
HIGH POWER INDUCTOR



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 (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP1031W	11.0±0.3	11.9±0.3	3.10 Max	2.40±0.3	9.0±0.5	4.40±0.5	3.40	11.0	7.10
TUP1006W	11.0±0.3	11.9±0.3	6.00 Max	2.40±0.3	See table	4.50±0.5	3.40	11.0	7.10
TUP1010W	11.0±0.3	11.9±0.3	10.0 Max	2.40±0.3	See table	4.40±0.5	3.40	11.0	7.10

Features :

- High performance (Isat) realized by metal dust core.
- Low loss realized with low DCR
- Magnetically Shielded.
- Compliance with RoHS and Halogen Free

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃
- Operating Temperature : -55℃ to 125℃.

Handling and precautions :

- Please contact us before cleaning this product.

Product Identification :

TUP 1031 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（1031：length & width=10mm，Thickness=3.1mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

- L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.
- DCR: Chroma16502 Milliohm Meter

● TUP1031W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP1031W-R28M	0.28	20	1.60	55.0	65.0	25.5	35.0
TUP1031W-R56M	0.56	20	2.75	39.0	44.0	23.0	32.0
TUP1031W-R82M	0.82	20	4.10	32.0	38.0	18.0	25.0
TUP1031W-R90M	0.90	20	4.20	31.0	36.0	17.0	24.0
TUP1031W-1R0M	1.00	20	4.95	30.0	35.0	16.0	23.0
TUP1031W-1R5M	1.50	20	6.60	23.0	28.0	12.0	18.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

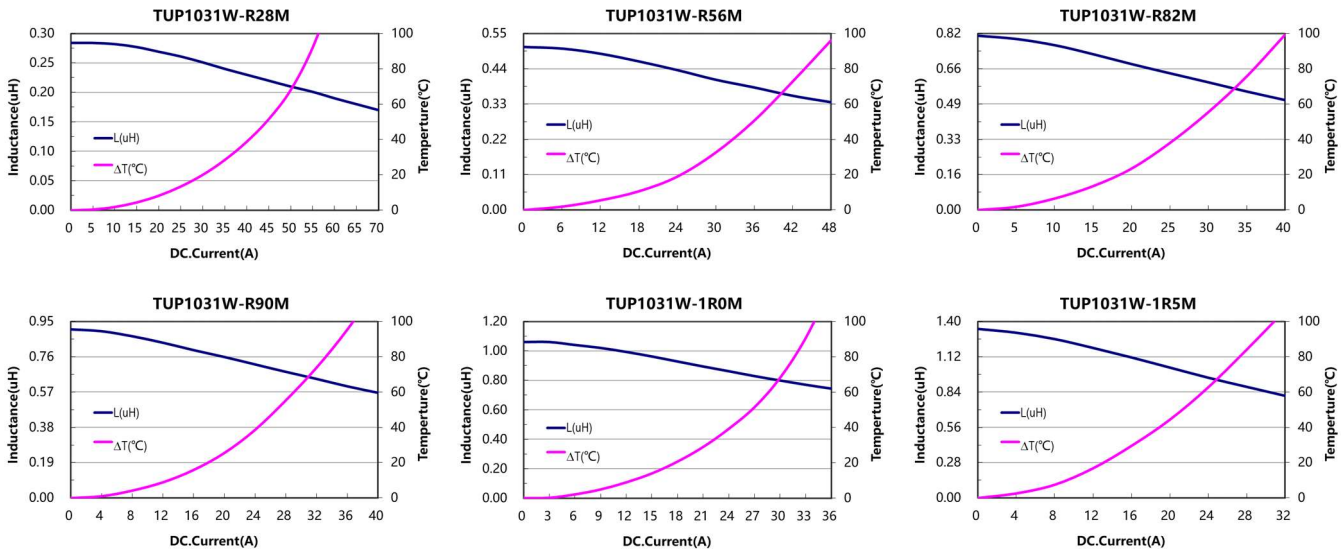
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP1006W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.5
TUP1006W-R68M	0.68	20	1.50	50.0	55.0	22.5	34.0	9.50
TUP1006W-1R0M	1.0	20	2.32	44.0	48.0	20.0	28.5	9.00
TUP1006W-1R2M	1.2	20	2.64	40.0	45.0	18.0	26.5	9.00
TUP1006W-1R5M	1.5	20	3.30	35.0	40.0	16.0	24.5	9.00
TUP1006W-2R2M	2.2	20	4.84	29.0	34.0	14.0	20.0	9.00
TUP1006W-3R3M	3.3	20	7.70	22.0	26.0	11.4	16.8	9.00
TUP1006W-4R7M	4.7	20	10.72	20.0	25.0	8.7	14.0	9.00

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

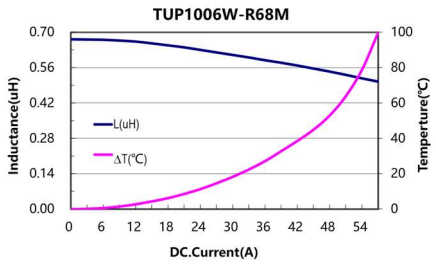
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

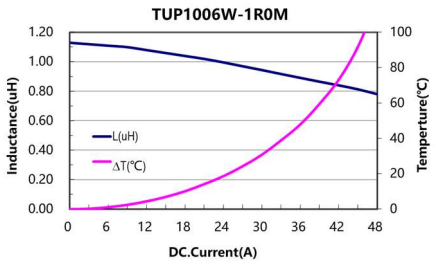
Irms : DC current（A）that will cause an approximate ΔT of 40℃

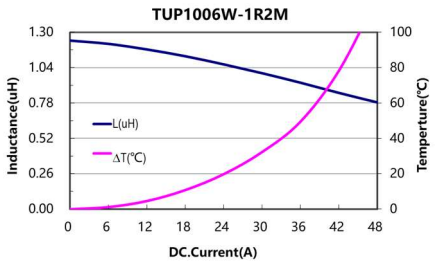
Note 4: Operating temperature range includes self-temperature rise.

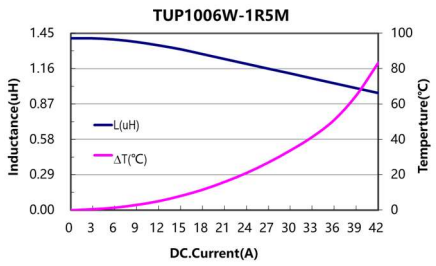
Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

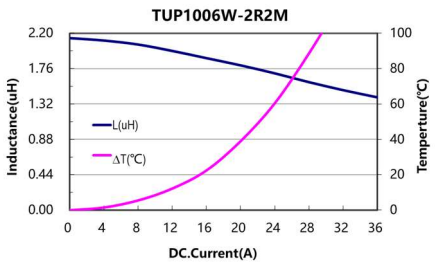
Typical performance curves :

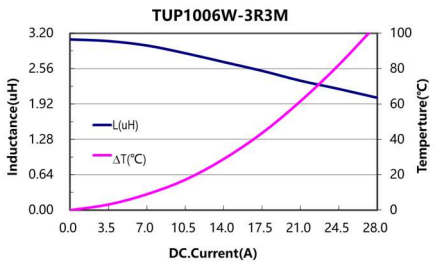


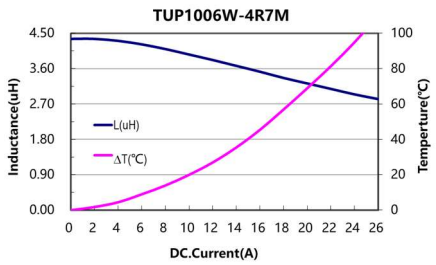












● TUP1010W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)		E(mm)
			Max.	Max.	Typ.	Max.	Typ.	±0.5
TUP1010W-2R2M	2.2	20	2.8	29.0	34.0	24.5	32.0	9.30
TUP1010W-3R3M	3.3	20	4.1	23.4	27.4	18.2	25.0	9.30
TUP1010W-4R7M	4.7	20	5.7	20.0	24.0	17.5	24.0	9.30
TUP1010W-5R6M	5.6	20	7.2	19.0	23.0	15.7	21.2	9.30
TUP1010W-6R8M	6.8	20	8.9	18.5	21.8	14.0	18.5	9.00
TUP1010W-8R2M	8.2	20	12.4	16.3	18.3	12.9	17.1	9.00
TUP1010W-100M	10.0	20	13.75	14.6	17.5	11.5	15.5	9.00
TUP1010W-150M	15.0	20	19.30	11.0	13.5	9.9	13.8	9.00

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

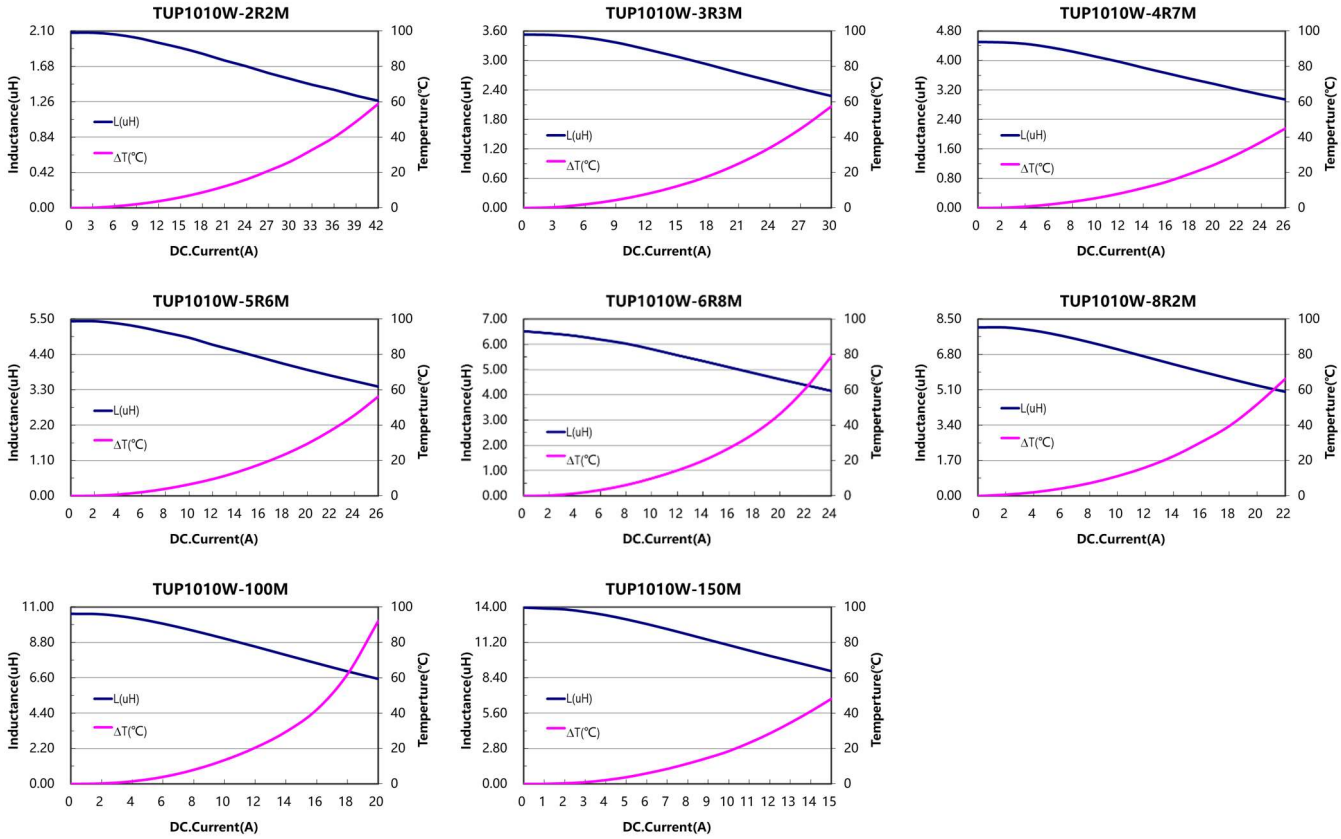
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

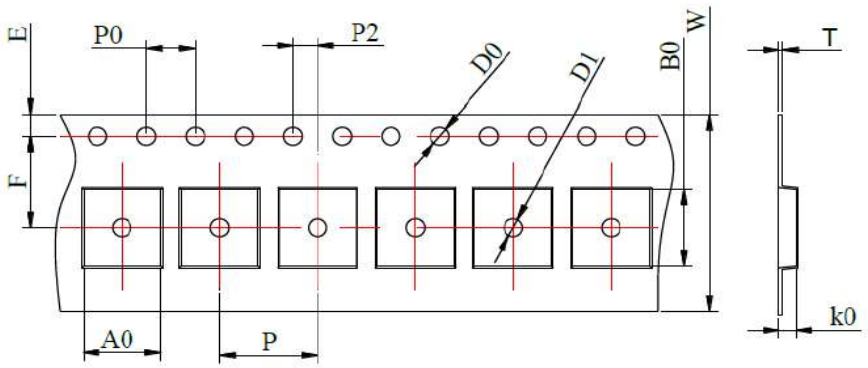
Typical performance curves :



* 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.

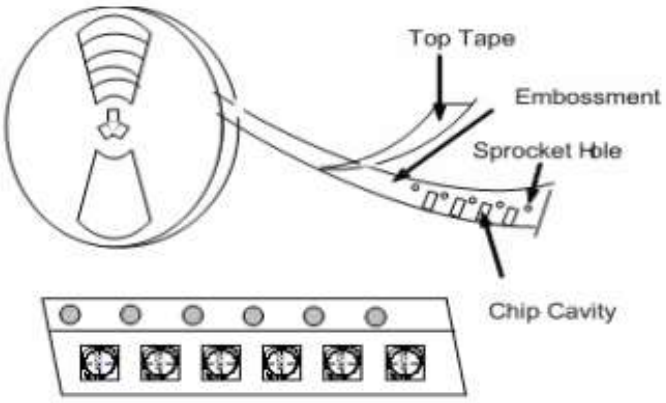
Packaging Information

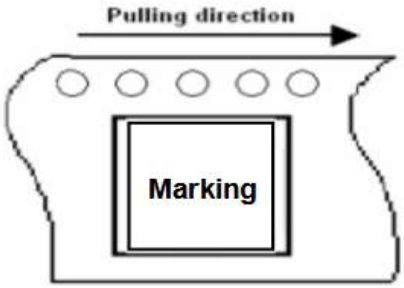
(1) Tape Packaging Dimensions（Unit：mm）



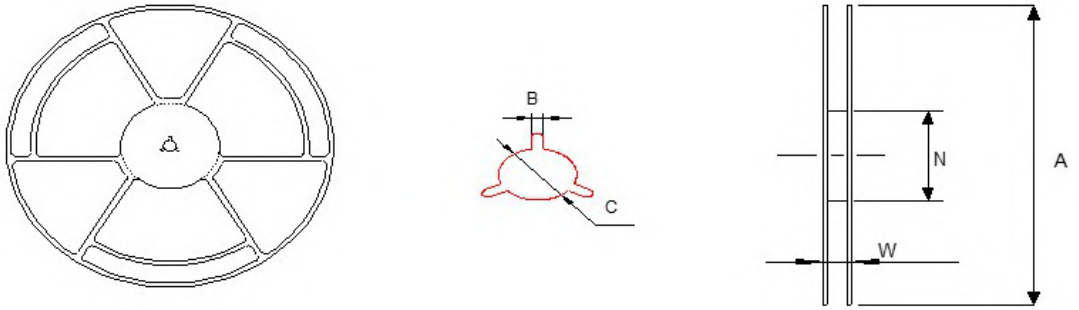
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TUP1031W	24±0.3	16±0.1	4±0.1	2±0.5	1.5±0.1	1.5±0.1	0.35±0.05	12.4±0.1	11.5±0.1	3.3±0.1	1.75±0.1	11.5±0.1
TUP1006W	24±0.3	16±0.1	4±0.1	2±0.5	1.5±0.1	1.5±0.1	0.35±0.05	12.4±0.1	11.5±0.1	6.3±0.1	1.75±0.1	11.5±0.1
TUP1010W	24±0.3	16±0.1	4±0.1	2±0.5	1.5±0.1	1.5±0.1	0.35±0.05	12.4±0.1	11.5±0.1	10.3±0.1	1.75±0.1	11.5±0.1





(2) Reel Dimensions（Unit：mm）

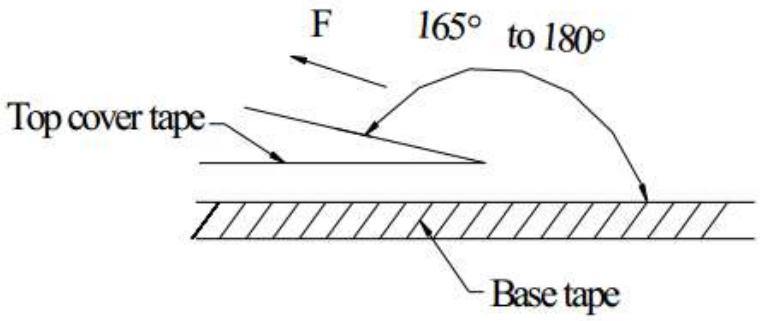


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP1031W	330+2.0	24.0±0.5	97±0.5	2.2+0.5	13.0±0.2	1000
TUP1006W	330+2.0	24.0±0.5	97±0.5	2.2+0.5	13.0±0.2	500
TUP1010W	330+2.0	24.0±0.5	97±0.5	2.2+0.5	13.0±0.2	300

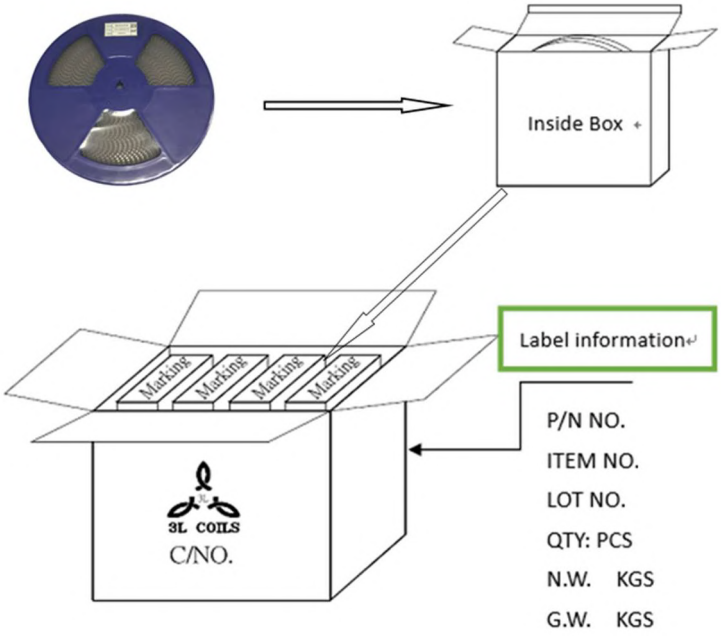
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP1031W	**2000**	**8000**
TUP1006W	**1000**	**4000**
TUP1010W	**600**	**2400**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

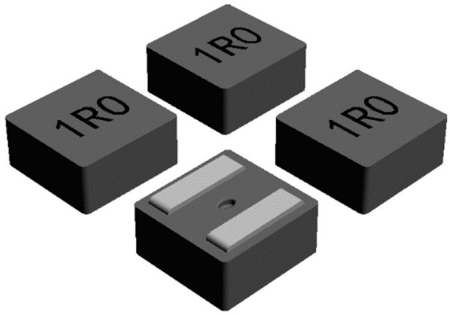
b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

TUP15-W SERIES

HF Halogen Free RoHS COMPLIANT

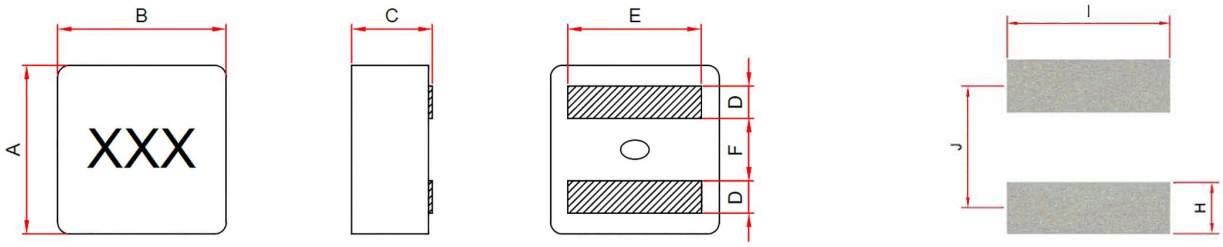
HIGH POWER INDUCTOR



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 (Dimensions are in mm):



Item	A	B	C	D	E	F	H	I	J
TUP1508W	15.5±0.3	16.5±0.3	8.0 Max	3.20±0.3	13.2±0.5	7.00±0.5	4.50	15.0	10.5
TUP1510W	15.5±0.3	16.5±0.3	10.0 Max	3.20±0.3	13.2±0.5	7.40±0.3	4.50	15.0	10.5
TUP1513W	15.5±0.3	16.5±0.3	13.0 Max	3.20±0.3	13.2±0.5	7.00±0.5	4.50	15.0	10.5

Features :

- High performance (Isat) realized by metal dust core.
- Low loss realized with low DCR
- Magnetically Shielded.
- Compliance with RoHS and Halogen Free

Characteristics:

- Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
- Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃
- Operating Temperature : -55℃ to 125℃.

Handling and precautions :

- Please contact us before cleaning this product.

Product Identification :

TUP 1510 W – 1R0 M

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

(1) Product Symbol

(2) Dimensions Code

（1510：length & width=15mm，Thickness=10mm）

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

- L: HP4285A,CH11025,CH3302,CH1320,CH1320S LCR Meter.
- DCR: Chroma16502 Milliohm Meter

● TUP1508W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP1508W-2R0M	2.0	20	2.21	52.0	57.0	29.5	40.0
TUP1508W-2R2M	2.2	20	2.48	47.0	50.0	28.0	37.0
TUP1508W-3R0M	3.0	20	3.00	41.0	46.0	26.0	34.5
TUP1508W-4R2M	4.2	20	4.68	33.0	38.0	20.5	27.0
TUP1508W-5R3M	5.3	20	5.34	31.0	35.0	19.5	26.0
TUP1508W-6R2M	6.2	20	6.50	31.0	34.0	17.0	23.0
TUP1508W-7R2M	7.2	20	7.20	27.0	32.0	15.0	21.0
TUP1508W-8R2M	8.2	20	7.92	25.0	28.0	13.0	19.0
TUP1508W-100M	10.0	20	9.60	21.0	24.0	11.0	16.0
TUP1508W-150M	15.0	20	15.0	18.0	19.0	10.0	13.0
TUP1508W-220M	22.0	20	23.2	16.0	19.0	9.0	12.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

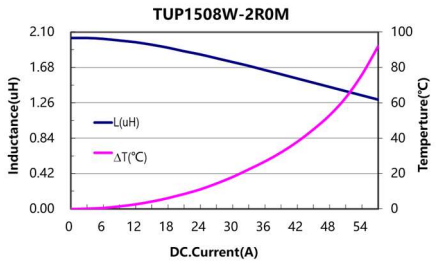
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

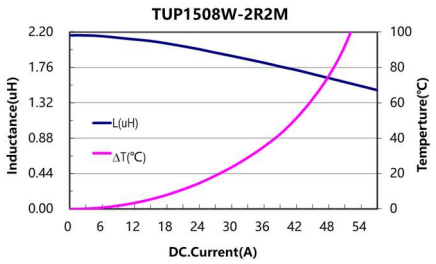
Irms : DC current（A）that will cause an approximate ΔT of 40℃

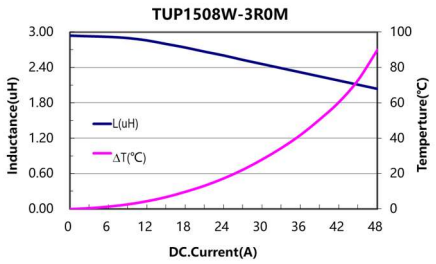
Note 4: Operating temperature range includes self-temperature rise.

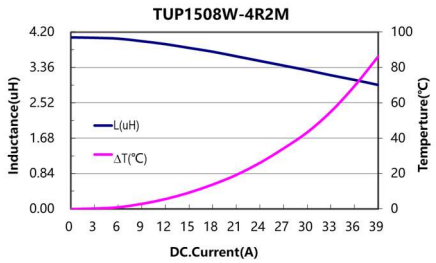
Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

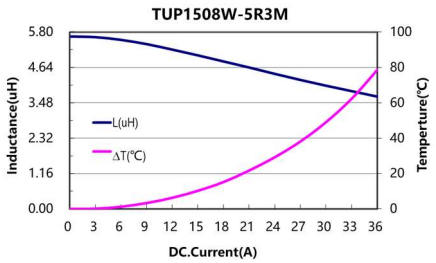
Typical performance curves :

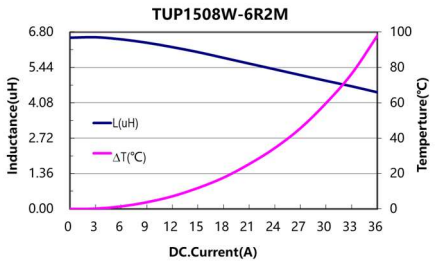


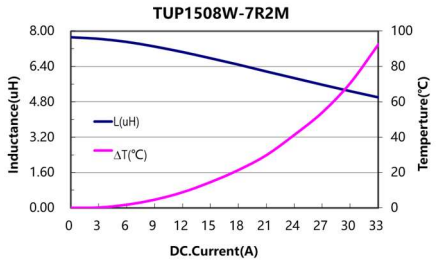


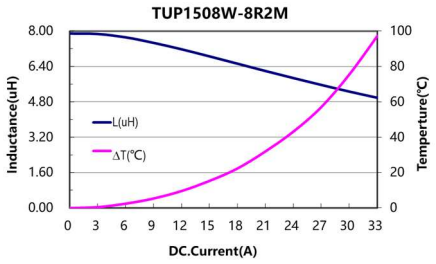


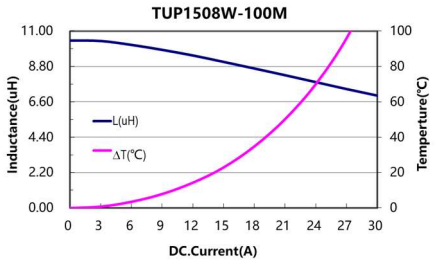


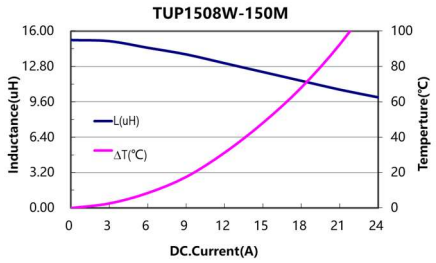


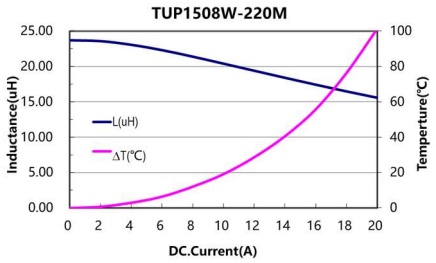












● TUP1510W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP1510W-4R7M	4.7	20	3.8	39.0	43.0	22.0	30.0
TUP1510W-5R6M	5.6	20	4.2	34.0	38.0	21.0	28.0
TUP1510W-6R8M	6.8	20	4.6	30.0	36.0	20.0	26.0
TUP1510W-8R2M	8.2	20	7.2	28.0	32.0	19.0	25.0
TUP1510W-100M	10.0	20	8.6	26.0	29.0	18.0	24.0
TUP1510W-150M	15.0	20	11.5	18.0	20.0	14.0	18.0
TUP1510W-220M	22.0	20	15.8	16.0	18.0	10.5	14.2
TUP1510W-330M	33.0	20	20.0	13.0	16.7	8.6	12.3

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

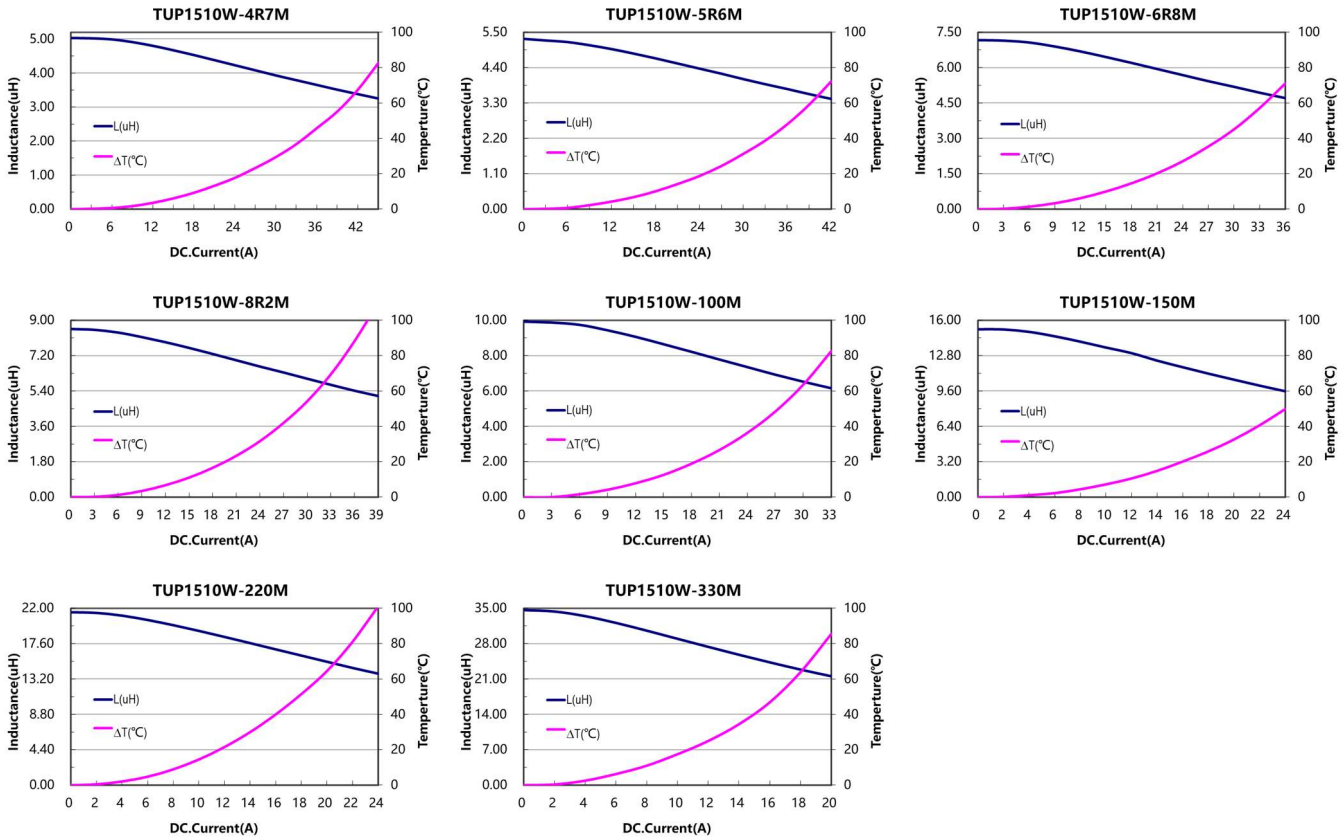
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

Typical performance curves :



● TUP1513W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
TUP1513W-4R7M	4.7	20	3.3	36.0	44.0	23.0	31.0
TUP1513W-5R6M	5.6	20	3.9	35.0	40.0	22.0	29.0
TUP1513W-6R8M	6.8	20	4.2	32.0	37.0	21.0	27.0
TUP1513W-8R2M	8.2	20	5.74	29.0	33.0	20.0	26.0
TUP1513W-100M	10.0	20	7.0	24.0	29.0	19.0	25.0
TUP1513W-150M	15.0	20	7.5	21.0	25.5	16.0	22.0
TUP1513W-220M	22.0	20	13.86	17.0	22.0	12.0	17.0
TUP1513W-330M	33.0	20	22.2	16.0	17.0	9.0	14.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.1 Vrms.

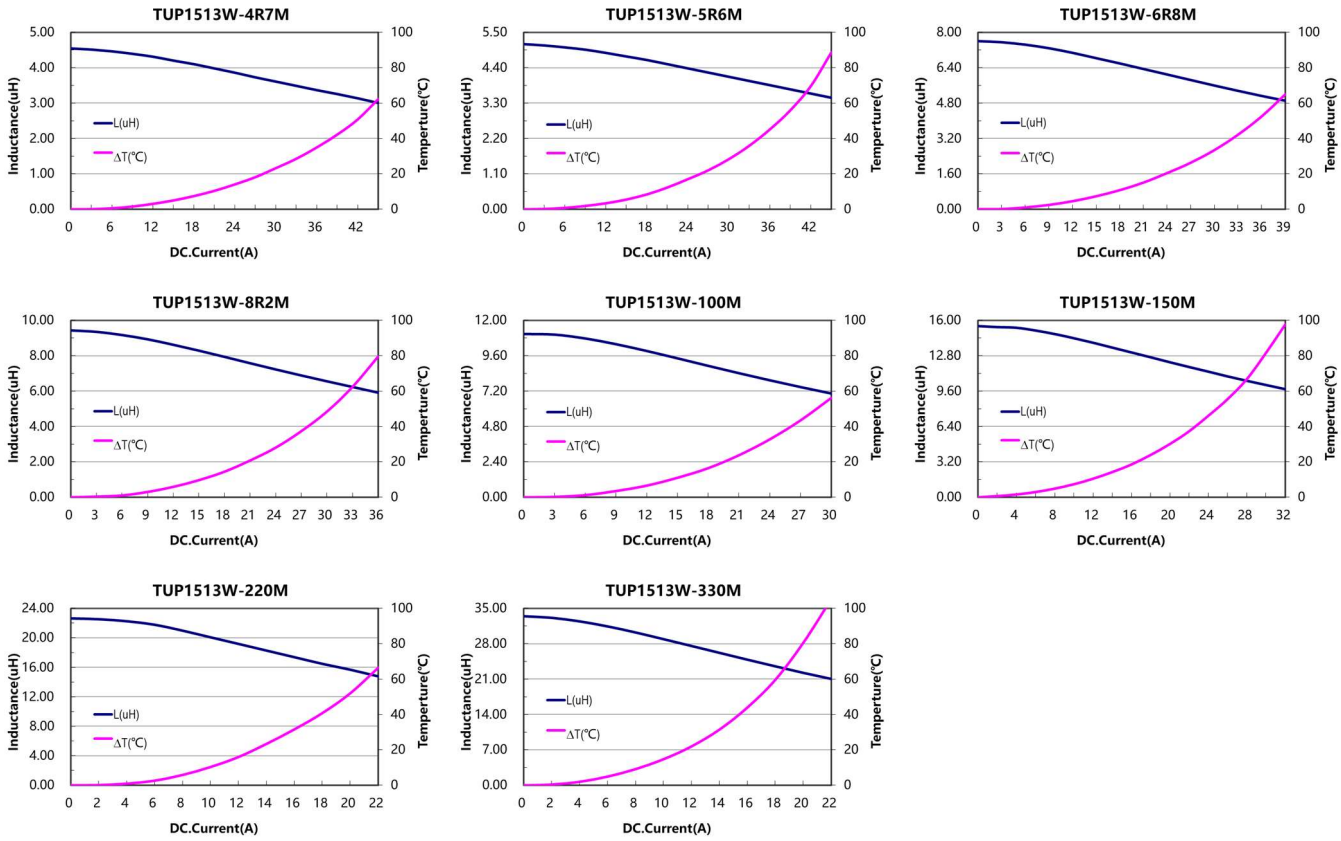
Note 3: Isat : DC current（A）that will cause L0 to drop approximately 30%

Irms : DC current（A）that will cause an approximate ΔT of 40℃

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

Note 5: The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

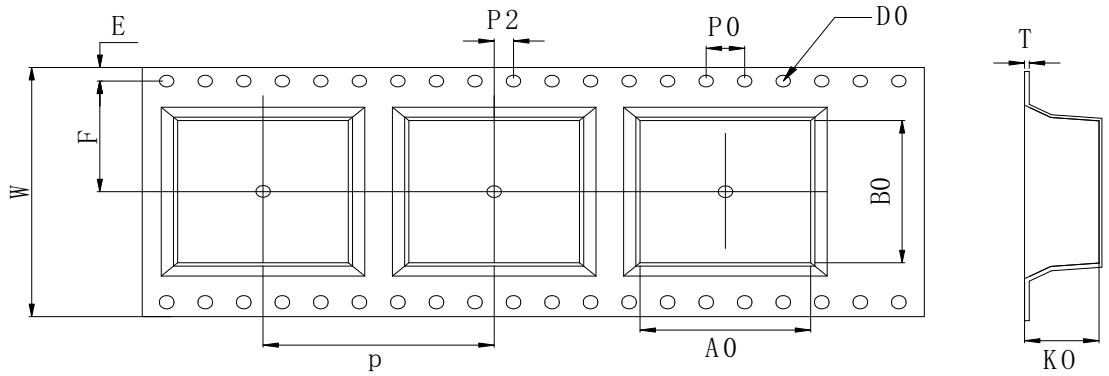
Typical performance curves :



* 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.

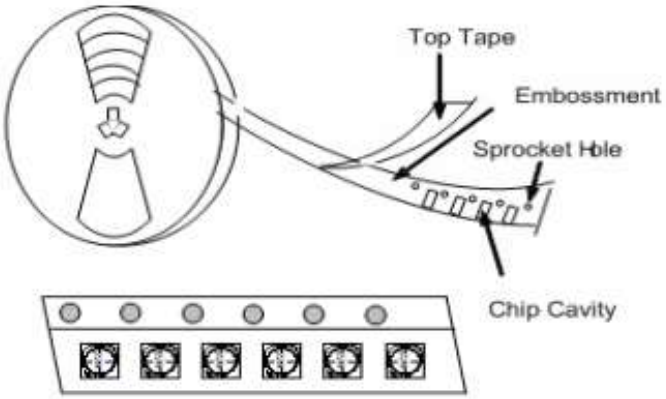
Packaging Information

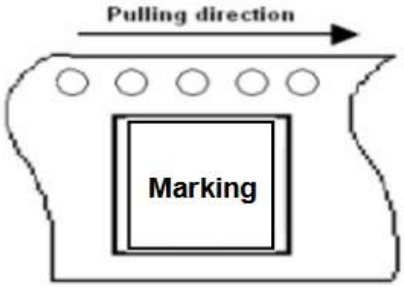
(1) Tape Packaging Dimensions（Unit：mm）



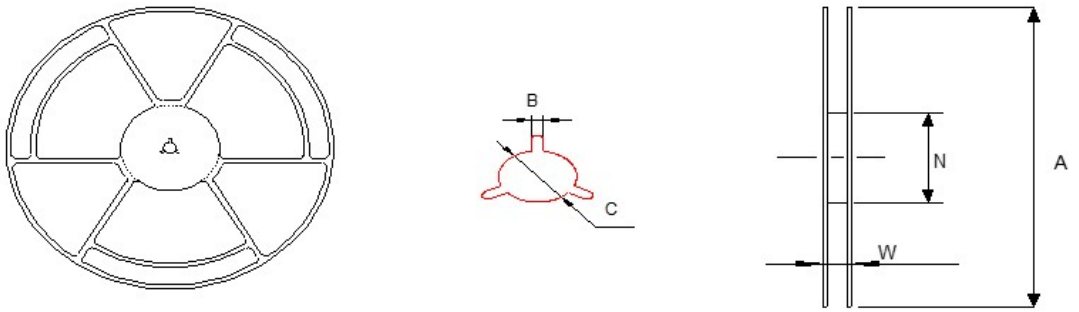
Taping Drawings (UNIT: mm)

P/N	W	P	P0	P2	D0	T	A0	B0	K0	E	F
TUP1508W	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	0.5±0.05	17.0±0.1	16.0±0.1	8.5±0.1	1.75±0.1	14.2±0.1
TUP1510W	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	0.5±0.05	17.0±0.1	16.0±0.1	10.5±0.1	1.75±0.1	14.2±0.1
TUP1513W	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	0.5±0.05	17.0±0.1	16.0±0.1	13.6±0.1	1.75±0.1	14.2±0.1





(2) Reel Dimensions（Unit：mm）

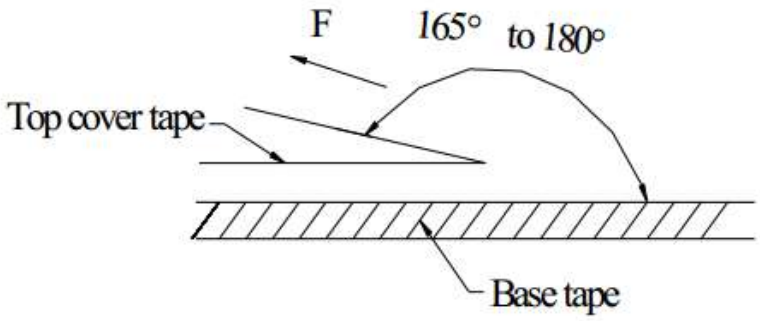


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
TUP1508W	330+2.0	32.0±0.5	97±0.5	2.3+0.3	13.0±0.2	200
TUP1510W	330+2.0	32.0±0.5	97±0.5	2.3+0.3	13.0±0.2	150
TUP1513W	330+2.0	32.0±0.5	97±0.5	2.3+0.3	13.0±0.2	100

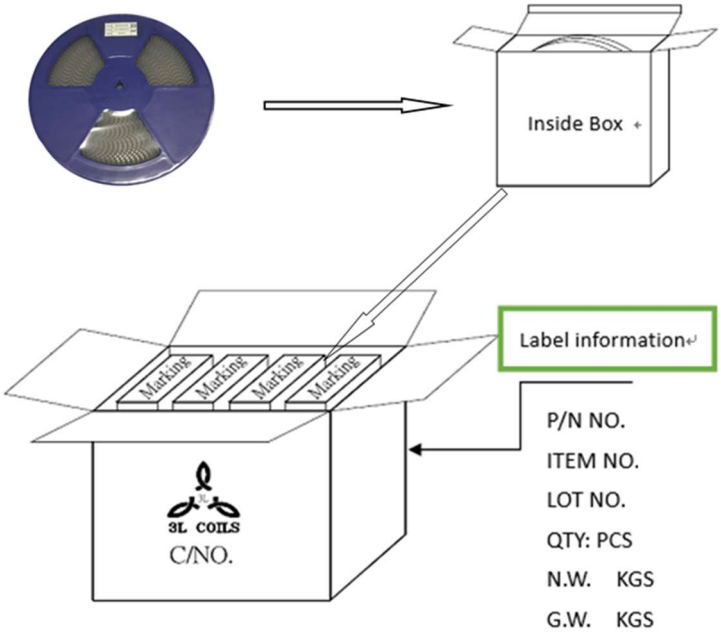
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
TUP1508W	**400**	**1200**
TUP1510W	**300**	**900**
TUP1513W	**200**	**600**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and < 35-65%.

b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.