SMTDRRI SERIES

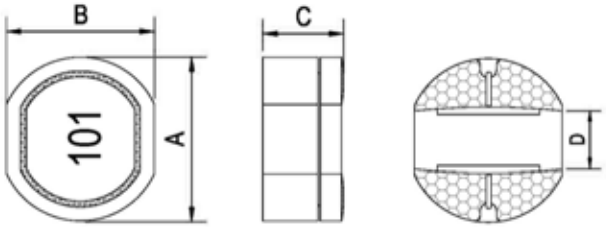
SHIELDED SMT POWER INDUCTORS.

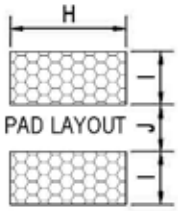


Applications :

- 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
SMTDRRI63B	6.2±0.30	5.6±0.30	3.2±0.3
SMTDRRI74B	7.8±0.35	7.0±0.35	4.5±0.4
SMTDRRI105B	10.0±0.40	9.0±0.40	5.0±0.5
SMTDRRI125B	12.6±0.50	11.6±0.50	5.4±0.5

Item	D	H	I	J
SMTDRRI63B	1.7	5.5	2.25	1.7
SMTDRRI74B	1.9	7.5	4.0	2.0
SMTDRRI105B	2.5	9.5	5.0	2.5
SMTDRRI125B	3.0	12.0	6.0	3.0

Features :

- Silver Plated Type, Low cost design.
- High power, High saturation inductors
- With magnetic shield against radiation.
- Ideal inductors for DC-DC conversion.

Product identification :

SMT DRRI105B - 101 K

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

(1) Type : **S**urface **M**ountable **T**ype.

(2) Style : **DR** Core with **RI** core , **105B** is size.

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

(4)Inductance tolerance :

K : ± 10% , **L** : ± 15% , **M** : ± 20%.

Characteristics :

- Rated Current: It is either the inductance is 10% (125B is 25%) lower than its initial value in DC. saturation characteristics or temperature raise becomes ΔT=40℃(Ta=20℃), whichever is lower
- Operating temperature : -30℃ to 105℃ .

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℃.

● SMTDRRI 63B / 74B / 105B / 125B series

Part No.	Inductance L (μH)	DC Resistance (Ω)Max.				Rated Current (Amp)Max.			
		63B	74B	105B	125B	63B	74B	105B	125B
100	10	0.14	0.07	0.06	0.05	1.00	1.65	2.06	2.65
120	12	0.16	0.07	0.07	0.05	0.94	1.57	1.94	2.50
150	15	0.18	0.08	0.07	0.06	0.86	1.39	1.72	2.45
180	18	0.25	0.10	0.08	0.06	0.78	1.29	1.58	2.40
220	22	0.32	0.13	0.08	0.07	0.76	1.12	1.42	2.20
270	27	0.36	0.16	0.10	0.08	0.64	1.06	1.32	2.00
330	33	0.41	0.18	0.11	0.10	0.61	0.97	1.16	1.80
390	39	0.47	0.18	0.12	0.11	0.53	0.91	1.10	1.65
470	47	0.51	0.27	0.14	0.12	0.50	0.80	1.00	1.50
560	56	0.72	0.29	0.19	0.15	0.46	0.76	0.93	1.38
680	68	0.82	0.33	0.21	0.17	0.42	0.68	0.85	1.26
820	82		0.43	0.28	0.20		0.62	0.79	1.14
101	100		0.49	0.34	0.25		0.55	0.72	1.05
121	120		0.68	0.37	0.28		0.49	0.63	0.95
151	150		0.94	0.51	0.40		0.44	0.55	0.85
181	180		1.00	0.57	0.48		0.40	0.50	0.77
221	220		1.18	0.78	0.52		0.36	0.47	0.70
271	270		1.30	0.87	0.70		0.33	0.41	0.63
331	330			1.20	0.80			0.37	0.57
391	390			1.34	1.08			0.35	0.52
471	470			1.50	1.20			0.33	0.48
561	560				1.34				0.44
681	680				1.78				0.40
821	820				2.00				0.36

Measuring Freq.(L):10~82uH (2.52MHz 0.25V) 100~470uH(1KHz 0.25V)

Tolerance of Inductance :

SMTDRRI63B	10~27uH ± 20%(M)	33~68uH ± 15%(L)	
SMTDRRI74B	10~27uH ± 20%(M)	33~82uH ± 15%(L)	100~270uH ±10%(K)
SMTDRRI105B	10~27uH ± 20%(M)	33~82uH ± 15%(L)	100~470uH ±10%(K)
SMTDRRI125B	10~18uH ± 20%(M)	22~820uH +20% -15%(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.