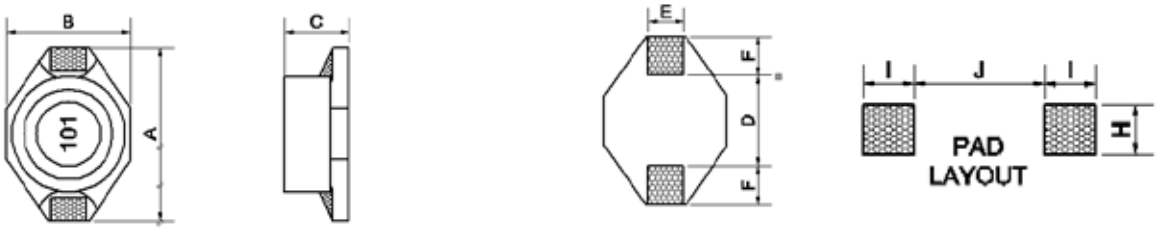
SMTDRRI SERIES

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.	B Max.	C Max.	D	E	F	H	I	J
SMTDRRI0402	6.60	4.45	2.92	4.32	1.27	1.02	3.56	1.4	4.06
SMTDRRI0804	12.95	9.40	5.08	7.62	2.54	2.54	2.79	2.92	7.37
SMTDRRI1206	18.54	15.24	7.62	12.70	2.54	2.54	2.79	2.92	12.45

Features :

- With magnetic shield against radiation.
- DRRI0402 can help achieve significantly longer battery life in handheld communication devices.
- DRRI0804/1206 designed for the higher current requirements of portable computers.
- DRRI0402 used ceramic base with gold-plating.
- DRRI0804/1206 used LCP plastic base.

Product identification :

SMT DRRI0804 - 101 M

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

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

(2)Style : **DR** Core with **RI** Shield. **0804** is DR core size.

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

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

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value. (Ta=20℃)
- Temperature Rise Current (Irms): The current when temperature of coil increases up to Max. ΔT=40℃. (Ta=20℃)
- Operating temperature: -40℃ 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℃.

● SMTDRRI0402 series

Part No.	Inductance L (μH)	Q Min.	DCR (Ω) Max.	SRF Ref. (MHz)	I rms (A) Max.
SMTDRRI0402 -1R0N	1.0	30	0.040	250	3.0
SMTDRRI0402 -1R5N	1.5	30	0.045	125	2.3
SMTDRRI0402 -2R2N	2.2	40	0.050	120	1.8
SMTDRRI0402 -3R3N	3.3	40	0.055	120	1.6
SMTDRRI0402 -4R7N	4.7	40	0.060	105	1.4
SMTDRRI0402 -6R8N	6.8	40	0.065	50	1.2
SMTDRRI0402 -100M	10	40	0.075	38	1.0
SMTDRRI0402 -150M	15	40	0.090	33	0.80
SMTDRRI0402 -220M	22	40	0.11	25	0.70
SMTDRRI0402 -330M	33	40	0.19	20	0.60
SMTDRRI0402 -470M	47	40	0.23	20	0.50
SMTDRRI0402 -680M	68	40	0.29	15	0.40
SMTDRRI0402 -101M	100	40	0.48	10	0.30
SMTDRRI0402 -151M	150	40	0.59	9.0	0.26
SMTDRRI0402 -221M	220	40	0.90	6.0	0.22
SMTDRRI0402 -331M	330	40	1.40	5.0	0.20
SMTDRRI0402 -471M	470	40	1.80	4.0	0.19
SMTDRRI0402 -681M	680	40	2.20	3.0	0.18
SMTDRRI0402 -102M	1000	40	3.40	2.0	0.15
SMTDRRI0402 -152M	1500	50	4.20	2.0	0.12
SMTDRRI0402 -222M	2200	50	8.50	2.0	0.10
SMTDRRI0402 -332M	3300	50	11.0	1.0	0.08
SMTDRRI0402 -472M	4700	50	13.9	1.0	0.06
SMTDRRI0402 -682M	6800	50	25.0	1.0	0.04
SMTDRRI0402 -103M	10000	50	32.8	0.8	0.02

NOTE : L tested Frequency : 1R0~100 200kHz 0.1V ; 150~103 100 kHz 0.1V

● SMTDRRI0804 series

Part No.	Inductance L (μH)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDRRI0804 -1R0N	1.0	0.021	140	5.6	5.0
SMTDRRI0804 -1R5N	1.5	0.022	120	5.2	4.5
SMTDRRI0804 -2R2N	2.2	0.032	80	5.0	3.8
SMTDRRI0804 -3R3N	3.3	0.039	70	3.9	3.3
SMTDRRI0804 -4R7N	4.7	0.054	40	3.2	2.7
SMTDRRI0804 -6R8N	6.8	0.075	38	2.8	2.2
SMTDRRI0804 -100M	10	0.101	35	2.4	2.0
SMTDRRI0804 -150M	15	0.150	25	2.0	1.5
SMTDRRI0804 -220M	22	0.207	19	1.6	1.3
SMTDRRI0804 -330M	33	0.334	15	1.4	1.1
SMTDRRI0804 -470M	47	0.472	13	1.0	0.80

● SMTDRRI1206 series

Part No.	Inductance L (μH)	DCR (Ω) Max.	SRF Ref. (MHz)	I sat (A) Max.	I rms (A) Max.
SMTDRRI1206 -100M	10	0.040	30	8.0	3.9
SMTDRRI1206 -150M	15	0.048	20	7.0	3.4
SMTDRRI1206 -220M	22	0.059	18	6.0	3.1
SMTDRRI1206 -330M	33	0.075	14	5.0	2.8
SMTDRRI1206 -470M	47	0.097	10	4.0	2.4
SMTDRRI1206 -680M	68	0.138	9.0	3.0	2.0
SMTDRRI1206 -101M	100	0.207	7.0	2.4	1.7
SMTDRRI1206 -151M	150	0.293	6.0	2.1	1.3
SMTDRRI1206 -221M	220	0.470	5.0	1.9	1.1
SMTDRRI1206 -331M	330	0.780	4.0	1.1	0.86
SMTDRRI1206 -471M	470	1.08	3.0	1.1	0.73
SMTDRRI1206 -681M	680	1.40	2.5	0.96	0.64
SMTDRRI1206 -102M	1000	2.01	2.0	0.80	0.53

NOTE : L tested Frequency : 1R0~100 200kHz 0.1V ; 150~103 100 kHz 0.1V

* 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.

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