



SMTDRRI SERIES

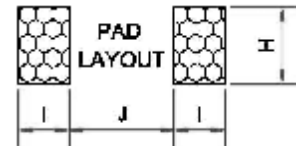
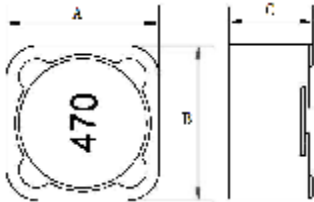
SHIELDED SMT POWER INDUCTORS.

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 Max.
SMTDRRI62B	6.2±0.3	5.9±0.3	3.0
SMTDRRI64B	6.2±0.3	5.9±0.3	5.0
SMTDRRI 73	7.3±0.2	7.3±0.2	3.4
SMTDRRI 74	7.3±0.2	7.3±0.2	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

Features :

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

Characteristics :

- Rated Current: It is either the inductance is 25% 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 : -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** : $\pm 20\%$.

Test equipments :

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


I SMTDRRI 62B / 64B / 73 / 74 series

Part No.	Inductance L (μH)	DC Resistance (Ω)Max.				Rated Current (A)Max.			
		DRRI62B	DRRI64B	DRRI73	DRRI74	DRRI62B	DRRI64B	DRRI73	DRRI74
2R9N	2.9	0.068				1.94			
4R0N	4.0	0.080				1.63			
5R5N	5.5	0.096				1.40			
100M	10	0.15	0.12	0.072	0.049	1.10	1.35	1.68	1.84
120M	12	0.20	0.13	0.098	0.058	1.00	1.22	1.52	1.71
150M	15	0.23	0.18	0.130	0.081	0.90	1.11	1.33	1.47
180M	18	0.27	0.24	0.140	0.091	0.80	1.02	1.20	1.31
220M	22	0.34	0.27	0.190	0.110	0.74	0.91	1.07	1.23
270M	27	0.38	0.30	0.210	0.150	0.66	0.82	0.96	1.12
330M	33	0.45	0.33	0.240	0.170	0.59	0.74	0.91	0.96
390M	39	0.49	0.37	0.320	0.230	0.54	0.69	0.77	0.91
470M	47	0.69	0.52	0.360	0.260	0.50	0.62	0.76	0.88
560M	56	0.78	0.56	0.470	0.350	0.46	0.58	0.68	0.75
680M	68	1.07	0.63	0.520	0.380	0.42	0.51	0.61	0.69
820M	82	1.21	0.71	0.690	0.430	0.38	0.46	0.57	0.61
101M	100	1.39	1.03	0.790	0.610	0.34	0.42	0.50	0.60
121M	120	1.90	1.15	0.890	0.660	0.31	0.38	0.49	0.52
151M	150	2.18	1.68	1.270	0.880	0.28	0.35	0.43	0.46
181M	180	2.77	1.87	1.450	0.980	0.26	0.32	0.39	0.42
221M	220	3.12	2.08	1.650	1.170	0.23	0.29	0.35	0.36
271M	270	4.38	2.37	2.310	1.640	0.22	0.26	0.32	0.34
331M	330	4.94	2.67	2.620	1.860	0.19	0.23	0.28	0.32
391M	390		2.94	2.940	2.850		0.22	0.26	0.29
471M	470		3.93	4.180	3.010		0.20	0.24	0.26
561M	560		5.43	4.670	3.620		0.18	0.22	0.23
681M	680		7.32	5.730	4.630		0.17	0.19	0.22
821M	820		8.24	6.540	5.200		0.15	0.18	0.20
102M	1000		9.26	9.440	6.000		0.14	0.16	0.18

Tolerance of Inductance and Measuring Freq. :

SMTDRRI62B 2.9~5.5uH (N) +40% -20% @ 7.96MHz 0.25V; 10~330uH(M) ±20% @1kHz 0.25V

SMTDRRI64B. SMTDRRI73 . SMTDRRI74 10~1000uH(M) ±20% @1kHz 0.25V


I SMTDRRI 124 / 125 / 127 series

Part No.	Inductance L (μ H)	DC Resistance (Ω)Max.			Rated Current (A)Max.		
		DRRI124	DRRI125	DRRI127	DRRI124	DRRI125	DRRI127
1R2	1.2			7.0m			9.80
1R3	1.3		0.012			8.00	
2R1	2.1		0.014			7.00	
2R4	2.4			11.5m			8.00
3R1	3.1		0.017			6.00	
3R5	3.5			13.5m			7.50
3R9	3.9	0.015			6.05		
4R4	4.4		0.020			5.00	
4R7	4.7	0.018		15.8m	5.70		6.80
5R8	5.8		0.021			4.40	
6R1	6.1			17.6m			6.60
6R8	6.8	0.023			4.90		
7R5	7.5		0.024			4.20	
7R6	7.6			20.0m			5.90
100	10	0.028	0.025	21.6m	4.50	4.00	5.40
120	12	0.038	0.027	24.3m	4.00	3.50	4.90
150	15	0.050	0.030	27.0m	3.20	3.30	4.50
180	18	0.057	0.034	39.2m	3.10	3.00	3.90
220	22	0.066	0.036	43.2m	2.90	2.80	3.60
270	27	0.080	0.051	45.9m	2.80	2.30	3.40
330	33	0.097	0.057	64.8m	2.70	2.10	3.00
390	39	0.132	0.068	72.9m	2.10	2.00	2.75
470	47	0.150	0.075	100m	1.90	1.80	2.50
560	56	0.190	0.110	110m	1.80	1.70	2.35
680	68	0.220	0.120	140m	1.50	1.50	2.10
820	82	0.260	0.140	150m	1.30	1.40	1.95
101	100	0.308	0.160	220m	1.20	1.30	1.70
121	120	0.380	0.170	230m	1.10	1.10	1.60
151	150	0.530	0.230	250m	0.95	1.00	1.42
181	180	0.620	0.290	320m	0.85	0.90	1.30
221	220	0.700	0.400	360m	0.80	0.80	1.16
271	270	0.876	0.460	470m	0.60	0.75	1.06
331	330	0.990	0.510	520m	0.50	0.68	0.95
391	390		0.690	700m		0.65	0.88
471	470		0.770	980m		0.58	0.79
561	560		0.860	1.07		0.54	0.73
681	680		1.200	1.46		0.48	0.67
821	820		1.340	1.64		0.43	0.60
102	1000		1.530	1.80		0.40	0.55

Tolerance of Inductance and Measuring Freq. :

 SMTDRRI124 3.9~330uH(M) \pm 20% @ 100kHz 0.25V

 SMTDRRI125 1.3~7.5 uH(N) +30% -20% @7.96MHz 0.25V; 10~1000uH(M) \pm 20% @1kHz 0.25V

 SMTDRRI127 1.2~7.6 uH(N) +40% -20% @100kHz 0.25V; 10~1000uH(M) \pm 20% @1kHz 0.25V


I SMTDRRI129 series

Part No.	Stamp	Inductance L (uH)	Test Freq. (1V)	DCR (mΩ) Max. (Typ.)	I sat (A) Max.	I rms (A) Max.
1R0N	1R0	1.0	100 KHz	6.5 (4.4)	19.9	11.6
1R8N	1R8	1.8	100 KHz	7.5 (5.2)	13.4	11.0
2R5N	2R5	2.5	100 KHz	9.0 (6.4)	12.2	10.3
3R5N	3R5	3.5	100 KHz	10.7(7.7)	12.0	8.70
4R7N	4R7	4.7	100 KHz	12.0(8.9)	10.1	8.40
6R8N	6R8	6.8	100 KHz	13.0(9.9)	8.56	7.10
7R5N	7R5	7.5	100 KHz	15.0(11)	8.48	6.80
100N	10	10.0	1.0 KHz	18.0(14)	7.12	6.95
120M	120	12.0	1.0 KHz	19.0(15)	7.04	6.20
150M	150	15.0	1.0 KHz	26.0(21)	5.84	5.22
220M	220	22.0	1.0 KHz	29.0(23)	5.12	4.95
330M	330	33.0	1.0 KHz	53.0(42)	4.25	3.60
470M	470	47.0	1.0 KHz	63.0(50)	3.60	3.45
560M	560	56.0	1.0 KHz	68.0(54)	2.85	2.95
680M	680	68.0	1.0 KHz	93.0(74)	2.76	2.85
820M	820	82.0	1.0 KHz	99.0(79)	2.62	2.60
101M	101	100.0	1.0 KHz	126.0(101)	2.31	2.45
121M	121	120.0	1.0 KHz	154.0(123)	2.05	2.20
151M	151	150.0	1.0 KHz	174.0(139)	1.80	1.90
181M	181	180.0	1.0 KHz	191.0(153)	1.66	1.86
221M	221	220.0	1.0 KHz	246.0(197)	1.64	1.72
331M	331	330.0	1.0 KHz	386.0(309)	1.28	1.28
471M	471	470.0	1.0 KHz	471.0(377)	1.06	1.25
561M	561	560.0	1.0 KHz	650.0(520)	1.01	0.98
681M	681	680.0	1.0 KHz	730.0(584)	0.83	0.96
821M	821	820.0	1.0 KHz	824.0(659)	0.81	0.94
102M	102	1000.0	1.0 KHz	1200.0(970)	0.70	0.78
122M	122	1200.0	1.0 KHz	1330.0(1110)	0.64	0.79
152M	152	1500.0	1.0 KHz	1990.0(1660)	0.56	0.58
182M	182	1800.0	1.0 KHz	2180.0(1820)	0.48	0.54
222M	222	2200.0	1.0 KHz	2580.0(2150)	0.43	0.52

Tolerance of Inductance and Measuring Freq. :

SMTDRRI129 1.0~10uH(N) ±30% @100kHz 1.0V; 10~2200uH(M)±20% @1kHz 0.25V

* 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.