SMTDRRI4D&5D&6D SERIES

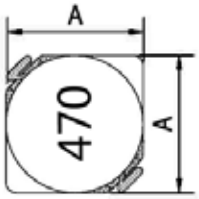
SHIELDED SMT POWER INDUCTORS.



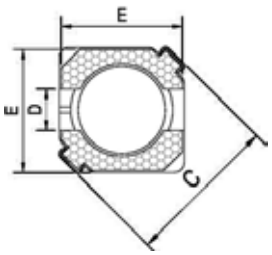
Applications :

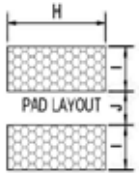
- Power supply for VTRs.
- LCD televisions.
- Portable communication equipment.
- DC to DC converters,etc.

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.

Product identification :

SMT DRRI5D28 - 220 N

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

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

(2) Style : **D**R Core with **R**I core.

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

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

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

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 35% lower than its initial value. (Ta=20℃).
- Temperature Rise Current (Irms): The current when temperature of coil increases up to max △ T=40℃ . (Ta=20℃).
- Operating temperature : -30℃to105℃.

Test equipments :

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

● 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
SMTDRR4D18-180N	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.