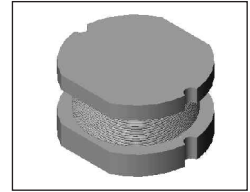


# SMT Power Inductor

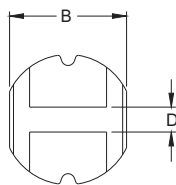
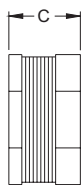
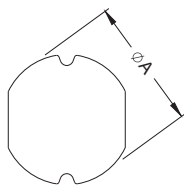
## SI54 Type

### Features

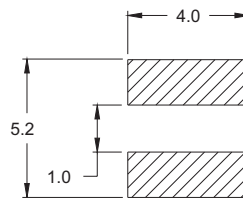
- RoHS compliant.
- Low profile (3.5mm max. Height) SMD type.
- Unshielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



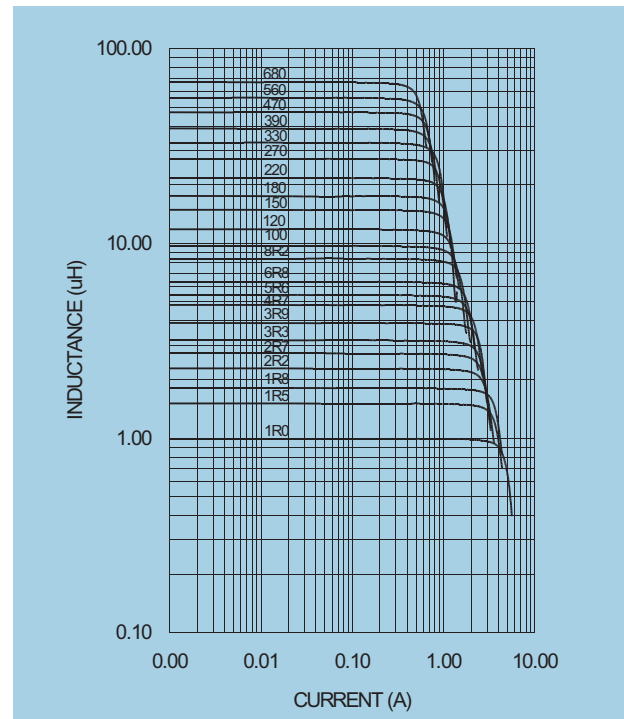
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 4.5 ± 0.15 / 0.177 ± 0.006  
 B = 4.0 ± 0.15 / 0.157 ± 0.006  
 C = 3.2 ± 0.3 / 0.126 ± 0.012  
 D = 1.0 ± 0.2 / 0.039 ± 0.008

### Electrical Characteristics: 25°C, 1KHz, 1V

PART NO.	L <sup>1</sup> (uH)	DCR (Ω) MAX	I <sub>rated</sub> <sup>2</sup> (Adc)
SI54 - 1R0	1.0	0.0480	2.70
SI54A - 1R0	1.0	0.0200	5.60
SI54 - 1R5	1.5	0.0560	2.60
SI54 - 1R8	1.8	0.0630	2.00
SI54 - 2R2	2.2	0.0710	1.90
SI54 - 2R7	2.7	0.0780	1.80
SI54 - 3R3	3.3	0.0860	1.70
SI54A - 3R3	3.3	0.0860	2.90
SI54 - 3R9	3.9	0.0930	1.60
SI54 - 4R7	4.7	0.1080	1.50
SI54A - 4R7	4.7	0.0108	2.50
SI54 - 5R6	5.6	0.1250	1.40
SI54 - 6R8	6.8	0.1310	1.30
SI54 - 8R2	8.2	0.1460	1.20
SI54 - 100	10.0	0.1820	1.10
SI54 - 120	12.0	0.2100	0.97
SI54 - 150	15.0	0.2350	0.85
SI54 - 180	18.0	0.3380	0.74
SI54 - 220	22.0	0.3780	0.68
SI54 - 270	27.0	0.5220	0.62
SI54 - 330	33.0	0.5400	0.56
SI54 - 390	39.0	0.5870	0.52
SI54 - 470	47.0	0.8440	0.44
SI54A - 470	0.3	0.8440	0.77
SI54 - 560	56.0	0.9370	0.42
SI54A - 560	0.3	0.9370	0.75
SI54 - 680	68.0	1.1170	0.37



1. Tolerance of inductance : ±15% for 1.0~8.2uH, ±10% for 10~68uH.
2. I<sub>rated</sub> is the DC current which cause the inductance drop less than 10%(20% for A-3R3 & A-4R7) of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise).



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