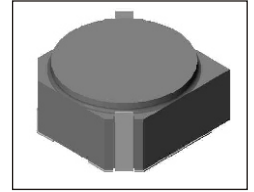


# SMT Power Inductor

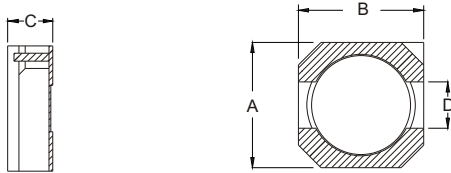
## SIL525 Type

### Features

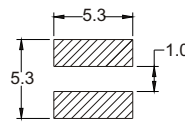
- RoHS compliant.
  - Small size (4.8mm\*4.8mm), low profile (2.5mm max. height) SMD type.
  - Magnetically shielded, suitable for high density mounting.
  - High energy storage and low DCR.
  - Provided with embossed carrier tape packing.
  - Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



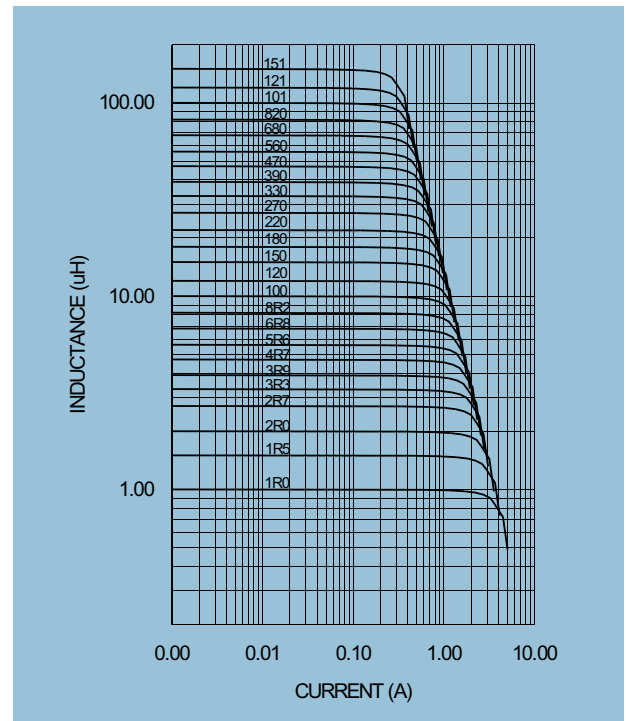
RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 5.0 / 0.197 Max.  
 B = 5.0 / 0.197 Max.  
 C = 2.5 / 0.098 Max.  
 D = 1.5±0.1 / 0.059±0.004

### Electrical Characteristics: 25°C, 100KHz, 0.1V

PART NO.	L <sup>1</sup> (uH)	DCR (Ω) MAX	I <sub>rated</sub> <sup>2</sup> (A dc)
SIL525 - 1R0	1.0	0.038	3.20
SIL525 - 1R5	1.5	0.045	2.70
SIL525 - 1R8	1.8	0.050	2.30
SIL525 - 2R2	2.2	0.053	2.10
SIL525 - 2R7	2.7	0.056	2.00
SIL525 - 3R3	3.3	0.063	1.80
SIL525 - 3R9	3.9	0.071	1.60
SIL525 - 4R7	4.7	0.077	1.50
SIL525 - 5R6	5.6	0.083	1.40
SIL525 - 6R8	6.8	0.094	1.10
SIL525 - 8R2	8.2	0.105	1.00
SIL525 - 100	10.0	0.112	0.95
SIL525 - 120	12.0	0.162	0.80
SIL525 - 150	15.0	0.176	0.80
SIL525 - 180	18.0	0.192	0.72
SIL525 - 220	22.0	0.224	0.70
SIL525 - 270	27.0	0.261	0.60
SIL525 - 330	33.0	0.372	0.58
SIL525 - 390	39.0	0.394	0.52
SIL525 - 470	47.0	0.457	0.47
SIL525 - 560	56.0	0.514	0.45
SIL525 - 680	68.0	0.686	0.40
SIL525 - 820	82.0	0.802	0.35
SIL525 - 101	100.0	1.162	0.32
SIL525 - 121	120.0	1.298	0.30
SIL525 - 151	150.0	1.423	0.27



1. Tolerance of inductance : ± 30%.
2. I<sub>rated</sub> is the DC current which cause the inductance drop less than 35% 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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