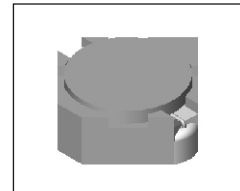


# SMT Power Inductor

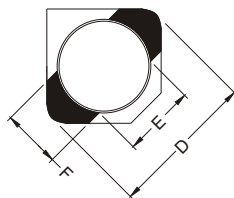
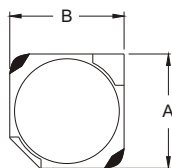
## SILM418 Type

### Features

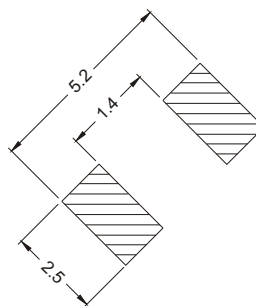
- RoHS compliant.
- Low profile (1.8mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



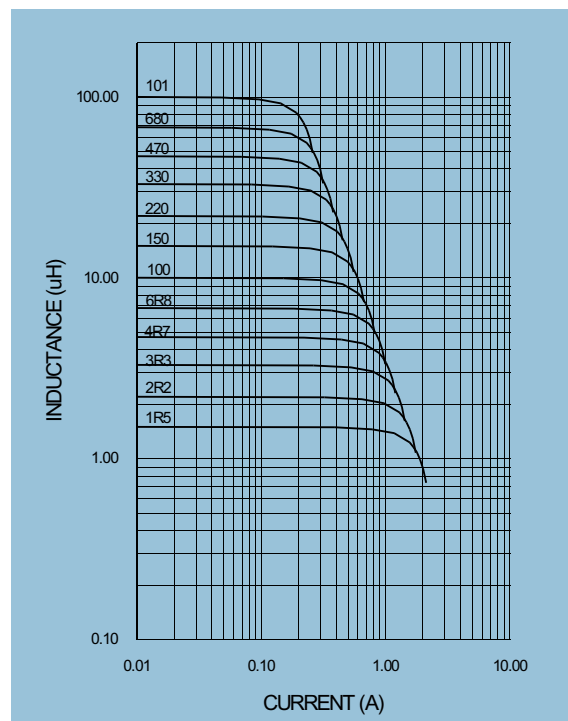
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 3.8 / 0.150 Max.  
 B = 3.8 / 0.150 Max.  
 C = 1.8 / 0.071 Max.  
 D = 4.5 / 0.177 Max.  
 E = 2.4 / 0.094  
 F = 1.5 / 0.059

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

PART NO.	L <sup>1</sup> (μH)	DCR (mΩ) MAX	I <sub>rated</sub> <sup>2</sup> (A dc)
SILM418 - 1R5	1.5	52	1.55
SILM418 - 2R2	2.2	72	1.20
SILM418 - 3R3	3.3	85	1.10
SILM418 - 4R7	4.7	105	0.90
SILM418 - 6R8	6.8	170	0.73
SILM418 - 100	10.0	210	0.55
SILM418 - 150	15.0	295	0.42
SILM418 - 220	22.0	430	0.35
SILM418 - 330	33.0	675	0.32
SILM418 - 470	47.0	850	0.24
SILM418 - 680	68.0	1360	0.22
SILM418 - 101	100.0	1650	0.17



1. Tolerance of inductance:  $\pm 30\%$
2. I<sub>rated</sub> is the DC current which cause the inductance drop 35% typical 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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