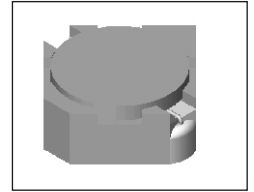


# SMT Power Inductor

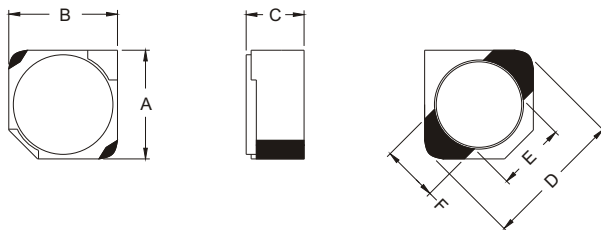
## SILM4015H Type

### Features

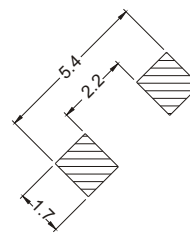
- RoHS compliant.
- Low profile(1.5mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- Self-leads ,suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension :



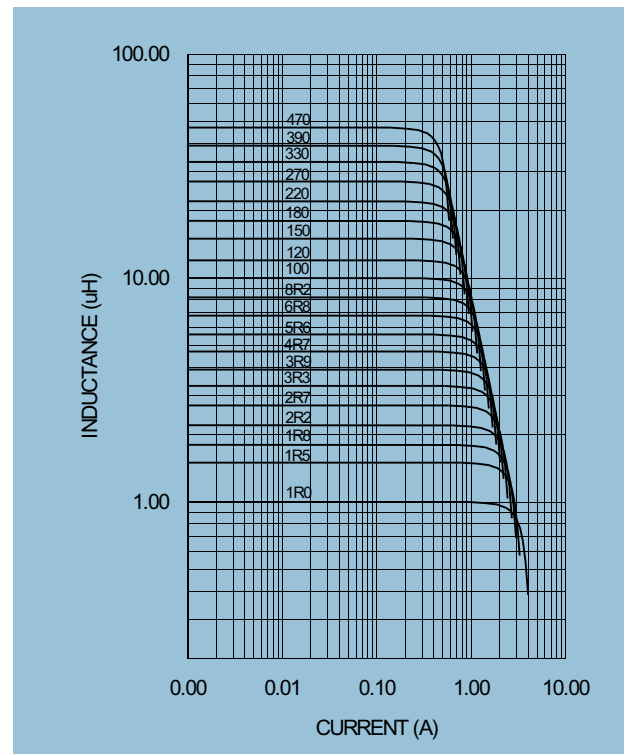
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 4.0 / 0.157 Max.  
 B = 4.0 / 0.157 Max.  
 C = 1.5 / 0.059 Max.  
 D = 4.8 / 0.189 Max.  
 E = 2.9 / 0.114  
 F = 1.0 / 0.039

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

PART NO.	L <sup>1</sup> (uH)	DCR (mΩ) MAX	I <sub>rated</sub> <sup>2</sup> (Adc)
SILM4015H - 1R0	1.0	54	2.60
SILM4015H - 1R5	1.5	68	2.30
SILM4015H - 1R8	1.8	78	2.20
SILM4015H - 2R2	2.2	88	2.00
SILM4015H - 2R7	2.7	100	1.90
SILM4015H - 3R3	3.3	126	1.70
SILM4015H - 3R9	3.9	140	1.55
SILM4015H - 4R7	4.7	190	1.40
SILM4015H - 5R6	5.6	205	1.30
SILM4015H - 6R8	6.8	260	1.20
SILM4015H - 8R2	8.2	300	1.05
SILM4015H - 100	10.0	340	0.96
SILM4015H - 120	12.0	460	0.87
SILM4015H - 150	15.0	505	0.79
SILM4015H - 180	18.0	725	0.70
SILM4015H - 220	22.0	810	0.62
SILM4015H - 270	27.0	920	0.55
SILM4015H - 330	33.0	1250	0.43
SILM4015H - 390	39.0	1350	0.49
SILM4015H - 470	47.0	1500	0.44



1. Tolerance of inductance:  $\pm 30\%$  for 1.0~8.2uH,  $\pm 20\%$  for 10~47uH.
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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