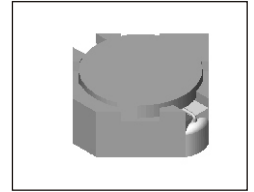


SMT Power Inductor

SILM315 Type

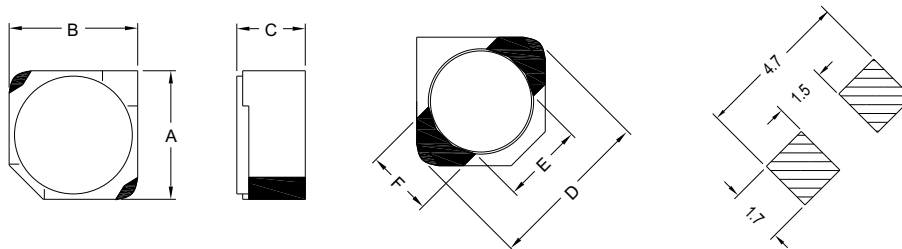
Features

- RoHS compliant.
- Low profile (1.55mm 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 = 3.2 / 0.126 Max.
 B = 3.2 / 0.126 Max.
 C = 1.5 / 0.059 Max.
 D = 4.0 / 0.157 Max.
 E = 2.2 / 0.087
 F = 1.0 / 0.039

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

PART NO.	L ¹ (uH)	DCR (mΩ) MAX	Isat ² (A dc)	Ir ³ (A dc)
SILM315 - 1R5	1.5	63	1.80	2.00
SILM315 - 1R8	1.8	75	1.65	1.80
SILM315 - 2R2	2.2	94	1.50	1.60
SILM315 - 2R7	2.7	106	1.35	1.40
SILM315 - 3R3	3.3	125	1.20	1.24
SILM315 - 3R9	3.9	138	1.10	1.12
SILM315 - 4R7	4.7	169	1.00	1.00
SILM315 - 5R6	5.6	188	0.95	0.98
SILM315 - 6R8	6.8	213	0.85	0.92
SILM315 - 8R2	8.2	281	0.80	0.80
SILM315 - 100	10.0	294	0.70	0.76
SILM315 - 120	12.0	394	0.62	0.64

1. Tolerance of inductance: ±30%.
2. Isat is the DC current which cause the inductance drop 35% typical of its nominal inductance without current.
3. Ir is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature : -20°C to 105°C (including self-temperature rise).



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