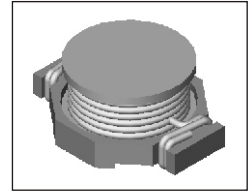


SMT Power Inductor

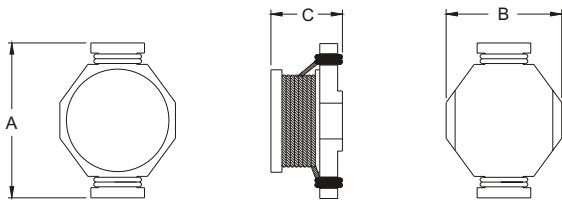
SIB86 Type

Features

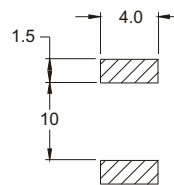
- RoHS compliant.
- Low profile (6.35mm max. height) SMD type.
- Unshielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



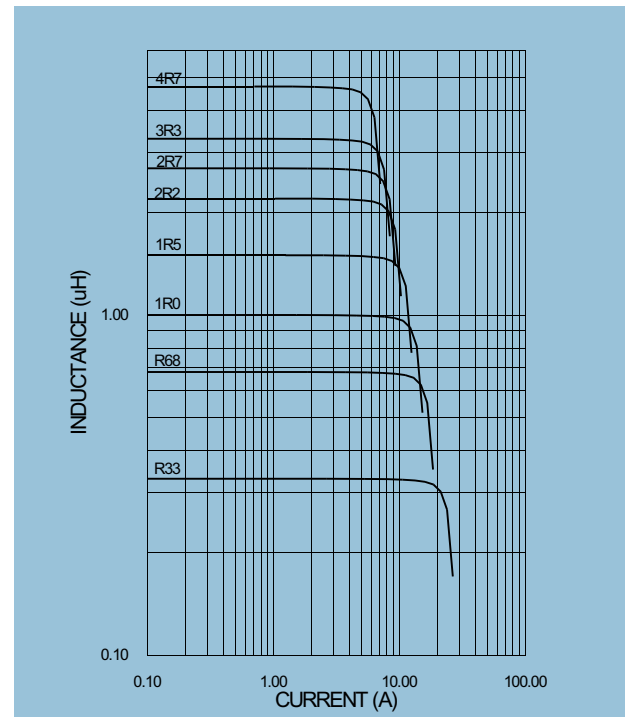
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
 A = 13.2 / 0.520 Max.
 B = 9.9 / 0.390 Max.
 C = 6.35 / 0.250 Max.

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

PART NO.	L^1 (μ H)	DCR ($m\Omega$)MAX	I_{sat}^2 (A \cdot c)	I_r^3 (A \cdot c)
SIB86 - R33	0.33	2.0	20.0	16.0
SIB86 - R68	0.68	5.0	13.0	12.0
SIB86 - 1R0	1.00	6.0	11.0	10.0
SIB86 - 1R5	1.50	8.0	9.0	9.0
SIB86 - 2R2	2.20	11.0	7.8	7.4
SIB86 - 2R7	2.70	12.0	7.0	6.6
SIB86 - 3R3	3.30	14.0	6.4	5.9
SIB86 - 4R7	4.70	18.0	5.4	4.8



1. Tolerance of inductance: $\pm 20\%$.
2. I_{sat} is the DC current which cause the inductance drop less than 10% of its nominal inductance without current.
3. I_r 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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