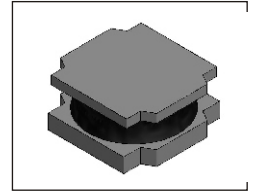


SMT Power Inductor

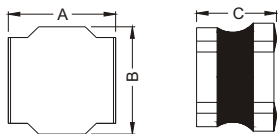
SIG8040 Type

Features

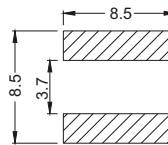
- RoHS compliant.
- Halogen free compliant.
- Low profile (4.0mm max. Height), SMD type.
- Shielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters 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 = 8.0 ±0.2 / 0.315 ±0.008
 B = 8.0 ±0.2 / 0.315 ±0.008
 C = 4.2 / 0.165 Max. for 1R0-6R8
 4.0 / 0.157 Max. for 100-101

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)
SIG8040 - 1R0	1.0	7.2	11.2	10.5
SIG8040 - 1R5	1.5	9.0	9.0	8.5
SIG8040 - 2R0	2.0	11.0	8.0	8.1
SIG8040 - 3R6	3.6	18.0	7.0	7.2
SIG8040 - 4R7	4.7	22.0	6.0	6.2
SIG8040 - 6R8	6.8	30.0	4.5	4.8
SIG8040 - 100	10.0	42.0	3.6	4.4
SIG8040 - 150	15.0	60.0	3.0	3.0
SIG8040 - 220	22.0	82.0	2.7	2.7
SIG8040 - 330	33.0	120.0	1.9	2.1
SIG8040 - 470	47.0	170.0	1.5	1.6
SIG8040 - 680	68.0	230.0	1.3	1.4
SIG8040 - 101	100.0	340.0	1.0	1.2

1. Tolerance of inductance : 30% for 1.0~6.8 μ H, 20%for 10~100 μ H.
2. I_{sat} is the DC current which cause the inductance drop 30% typical of its nominal inductance without current.
3. I_r is the DC current which cause the surface temperature of the part increase less than 40°C.
4. Rated current : Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.
5. Operating temperature: -40°C to 125°C (including self-temperature rise).



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