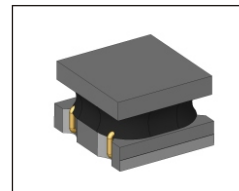


SMT Power Inductor

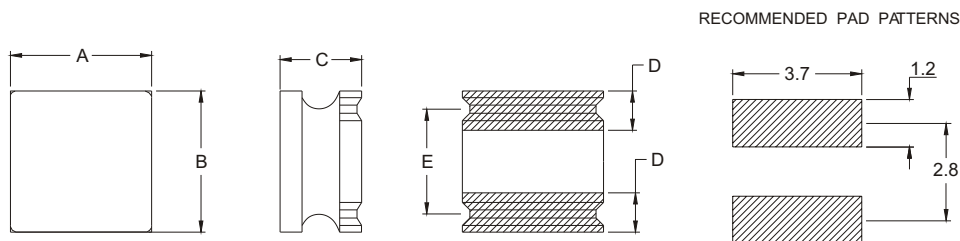
SIG4010 Type

Features

- RoHS compliant.
- Halogen free compliant.
- Low profile (1.0mm 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:



UNIT : mm/inch
 A = 4.0±0.2 / 0.157±0.008
 B = 4.0±0.2 / 0.157±0.008
 C = 1.0/0.039 Max.
 D = 1.2±0.2 / 0.047±0.008
 E = 2.5±0.2 / 0.098±0.008

Electrical Characteristics: 25°C: 100KHz, 1.0V

PART NO.	L^1 (μ H)	DCR (m Ω) Max.	I_{sat}^2 (Adc)	I_r^3 (Adc)
SIG4010 - 1R0	1.0	55	1.80	1.80
SIG4010 - 2R2	2.2	84	1.30	1.30
SIG4010 - 3R3	3.3	100	1.10	1.10
SIG4010 - 4R7	4.7	145	0.90	0.90
SIG4010 - 6R8	6.8	184	0.75	0.75
SIG4010 - 100	10.0	300	0.60	0.60

1. Tolerance of inductance: $\pm 20\%$ for 1.0~10.0 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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