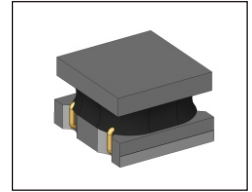


SMT Power Inductor

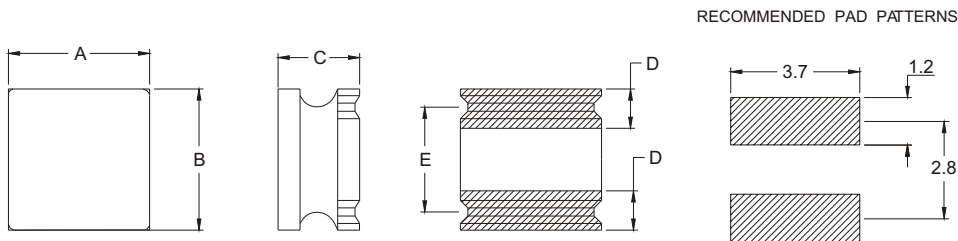
SIG4018 Type

Features

- RoHS compliant.
- Halogen free compliant.
- Low profile (1.8mm max. height), SMD type.
- Shielded
- Self-leads, suitable for high density mounting.
- High energy storage.
- 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 = 1.8 / 0.071 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 (μH)	DCR (mΩ) Max.	I _{sat} ² (A ²)	I _r ³ (A)
SIG4018 - 1R0	1.0	36	4.00	3.00
SIG4018 - 2R2	2.2	60	3.00	2.30
SIG4018 - 3R3	3.3	80	2.40	2.00
SIG4018 - 4R7	4.7	90	2.00	1.80
SIG4018 - 6R8	6.8	132	1.50	1.60
SIG4018 - 100	10.0	190	1.30	1.30
SIG4018 - 150	15.0	270	1.00	1.10
SIG4018 - 220	22.0	360	0.83	0.90
SIG4018 - 330	33.0	560	0.68	0.70
SIG4018 - 470	47.0	780	0.57	0.60
SIG4018 - 680	68.0	1200	0.47	0.47
SIG4018 - 101	100.0	1800	0.40	0.40
SIG4018 - 151	150.0	3000	0.31	0.31
SIG4018 - 221	220.0	3800	0.27	0.27

1. Tolerance of inductance: ± 20% for 1.0~220.0μH.
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).



DELTA ELECTRONICS, INC.

(TAOYUAN PLANT CPBG) 252, SAN YING ROAD, KUEISAN INDUSTRIAL ZONE, TAOYUAN SHIEN, 333, TAIWAN, R.O.C.

TEL: 886-3-3591968; FAX: 886-3-3591991

<http://www.deltaww.com>