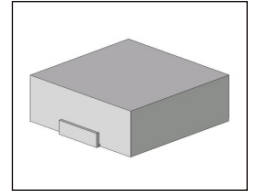


SMT Power Inductor (MOLDING TYPE)

MPT512M1 Type

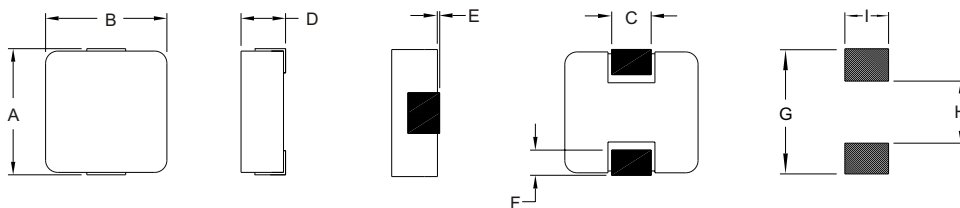
Features

- RoHS compliant.
- Low profile , high current SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.



Mechanical Dimension:

RECOMMENDED PAD PATTERNS



UNIT : mm/inch
A = 5.75 / 0.226 Max.
B = 5.40 / 0.213 Max.
C = 2.00±0.30 / 0.079±0.012
D = 1.20 / 0.049 Max.
E = 0~0.15 / 0~0.006
F = 1.00±0.30 / 0.039±0.012
G = 5.99 / 0.236
H = 2.20 / 0.087
I = 2.50 / 0.098

Electrical Characteristics: 25°C: 100KHz, 0.25V

PART NO.	L0 (uH)	DCR (mΩ) TYP.	DCR (mΩ) MAX.	Isat ² (Adc)	I _r ³ (Adc)
MPT512 - R10M1	0.10	4.32	4.60	35.0	13.5
MPT512 - R47M1	0.47	18.20	19.20	18.0	6.5
MPT512 - 1R0M1	1.00	44.30	46.50	10.2	4.4
MPT512 - 2R2M1	2.20	73.60	77.30	6.0	3.4
MPT512 - 3R3M1	3.30	98.40	103.00	5.0	2.8
MPT512 - 4R7M1	4.70	159.00	168.00	4.4	32.0

1. All test data is referenced to 25°C ambient.
2. Isat is the DC current which cause the inductance drop 30% typical of its nominal inductance without current.
3. Ir is the DC current which cause the surface temperature of the part increase less than 40°C.
4. Operating temperature range : -55°C to 125°C.



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.deltawww.com>