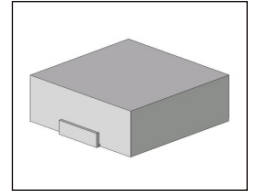


SMT Power Inductor (MOLDING TYPE)

MPT530H1 Type

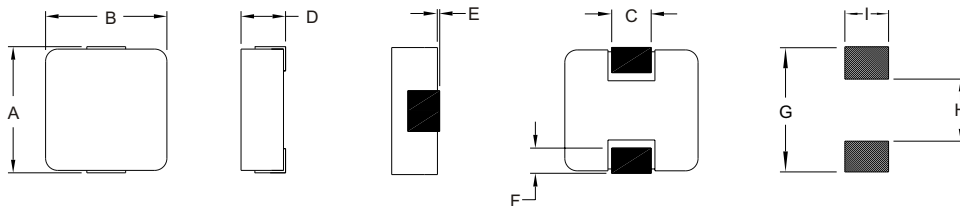
Features

- 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 = 5.20 / 0.205 Max.
B = 4.90 / 0.193 Max.
C = 1.50±0.30 / 0.059±0.012
D = 3.00 / 0.118 Max.
E = 0~0.15 / 0~0.006
F = 1.00±0.30 / 0.039±0.012
G = 7.00 / 0.276
H = 3.00 / 0.118
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)
MPT530-R68H1	0.68	11.0	12.0	14.0	8.5
MPT530-1R0H1	1.00	13.0	14.0	11.0	7.0
MPT530-1R2H1	1.20	15.0	16.0	11.0	6.5
MPT530-1R5H1	1.50	20.0	25.0	10.0	6.0
MPT530-2R2H1	2.20	29.0	35.0	9.0	5.5
MPT530-3R3H1	3.30	32.0	38.0	7.0	5.0

1. All test data is referenced to 25°C ambient.
2. Isat is the DC current which cause the inductance drop 20% 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.



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