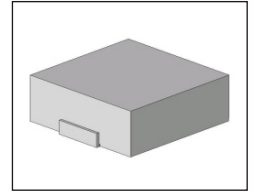


SMT Power Inductor (MOLDING TYPE)

MPT1040M1 Type

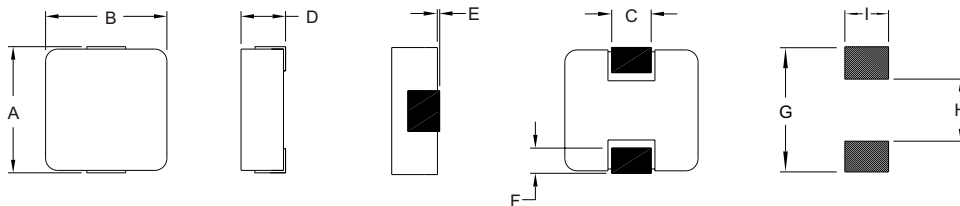
Features

- 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
B = 10.30 / 0.406 Max.
C = 3.00±0.50 / 0.118±0.020
D = 4.00 / 0.157 Max.
E = 0~0.15 / 0~0.006
F = 2.00±0.50 / 0.079±0.020
G = 13.60 / 0.535
H = 5.40 / 0.213
I = 4.10 / 0.161

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

PART NO.	L0 (uH)	DCR (mΩ) TYP.	DCR (mΩ) MAX.	Isat ² (Adc)	I _r ³ (Adc)	Dimension "A" mm / inch MAX
MPT1040 - R22M1	0.22	0.9	1.0	60.0	35.0	11.2 / 0.441
MPT1040 - R36M1	0.36	1.1	1.2	60.0	30.0	11.5 / 0.453
MPT1040 - R39M1	0.39	1.1	1.3	60.0	30.0	11.5 / 0.453
MPT1040 - R41M1	0.41	1.1	1.3	60.0	30.0	11.5 / 0.453
MPT1040 - R45M1	0.45	1.1	1.3	45.0	29.0	11.5 / 0.453
MPT1040 - R56M1	0.56	1.6	1.8	40.0	25.0	11.5 / 0.453
MPT1040 - R68M1	0.68	2.4	2.7	39.0	22.0	11.5 / 0.453
MPT1040 - R88M1	0.88	2.7	3.0	38.0	20.0	11.5 / 0.453
MPT1040 - 1R0M1	1.00	3.0	3.3	36.0	18.0	11.5 / 0.453
MPT1040 - 1R5M1	1.50	3.8	4.2	33.0	16.0	11.5 / 0.453
MPT1040 - 2R2M1	2.20	6.7	7.0	27.0	12.0	11.5 / 0.453

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.



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