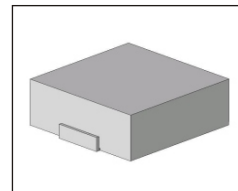


SMT Power Inductor (MOLDING TYPE)

MPT135M1 Type

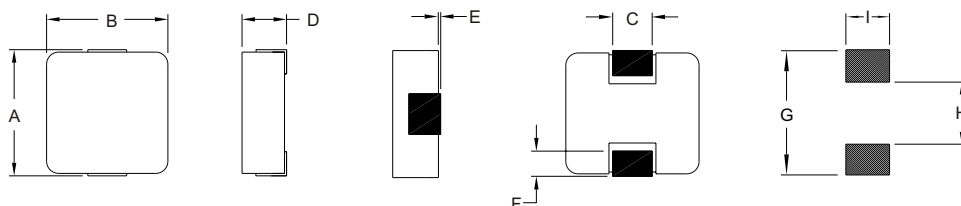
Features

- 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 = 14.00 / 0.551 Max. for R36
 A = 13.80 / 0.543 Max.
 B = 12.80 / 0.504 Max.
 D = 5.20 / 0.205 Max. for R36
 D = 5.00 / 0.197 Max.
 E = 0~0.15 / 0~0.006
 F = 2.00±0.50 / 0.079±0.020
 G = 14.50 / 0.571
 H = 8.00 / 0.314
 I = 5.00 / 0.197

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

PART NO.	L0 (μ H)	DCR (m Ω) TYP.	DCR (m Ω) MAX.	Isat ² (Adc)	Ir ³ (Adc)	Dimension "C" mm / inch MAX
MPT135 - R36M1	0.36	0.77	1.1	75.0	41.0	4.00 / 0.157
MPT135 - R47M1	0.47	1.10	1.3	65.0	38.0	4.00 / 0.157
MPT135 - R50M1	0.50	1.20	1.5	55.0	36.0	4.00 / 0.157
MPT135 - R56M1	0.56	1.20	1.5	55.0	36.0	4.00 / 0.157
MPT135 - R62M1	0.62	1.50	1.7	54.0	34.0	4.00 / 0.157
MPT135 - R68M1	0.68	1.50	1.7	54.0	34.0	4.00 / 0.157
MPT135 - 1R0M1	1.00	2.10	2.5	50.0	29.0	4.00 / 0.157
MPT135 - 1R5M1	1.50	3.40	4.1	48.0	23.0	4.00 / 0.157
MPT135 - 2R2M1	2.20	4.60	5.5	32.0	20.0	3.00 / 0.118
MPT135 - 3R3M1	3.30	7.70	9.2	32.0	15.0	3.00 / 0.118
MPT135 - 4R7M1	4.70	12.80	15.0	27.0	12.0	3.00 / 0.118
MPT135 - 6R8M1	6.80	15.40	18.5	21.0	11.0	3.00 / 0.118

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 (20% for 1R0).
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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