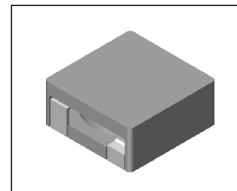


SMT Power Inductor

HMP1355 Type

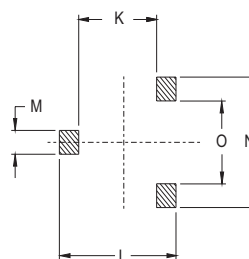
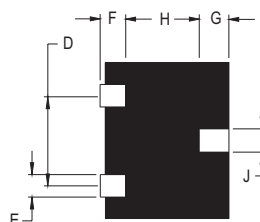
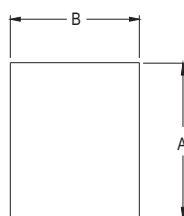
Features

- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- 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 :

RECOMMENDED PAD PATTERNS



UNIT : mm/inch
 D = 7.80 / 0.307
 F = 2.50 / 0.098
 G = 2.50 / 0.098
 H = 8.00 / 0.315
 J = 3.20 / 0.126
 K = 7.00 / 0.276
 L = 14.00 / 0.551
 M = 3.70 / 0.146

UNIT : mm/inch

PART NO.	A	B	C (MAX)	E	N	O
HMP1355	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	5.50 / 0.217	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1355S	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	5.50 / 0.217	1.80 / 0.071	10.60 / 0.417	5.00 / 0.197

Electrical Characteristics : At 25°C: 100KHz, 1V

PART NO.	L^1 (μ H)	L_i (μ H) MIN	DCR (m Ω) MAX	I_{sat}^2 (Adc)	I_{rms}^3 (Adc)
HMP1355-0R4	0.4	0.32	0.8	47.0	45.0
HMP1355-0R5	0.5	0.40	0.8	40.0	45.0
HMP1355M-0R6	0.6	0.48	0.9	35.0	39.0
HMP1355-1R0	1.0	0.80	1.6	30.0	30.0
HMP1355-1R3	1.3	1.05	1.6	20.0	30.0
HMP1355-1R5	1.5	1.20	1.6	20.0	30.0
HMP1355-3R3	3.3	2.30	4.3	14.0	15.0
HMP1355M-4R7	4.7	3.76	7.5	13.5	13.0
HMP1355-4R7HS	4.7	3.50	9.5	14.0	12.0
HMP1355S-1R5	1.5	1.20	2.1	20.0	30.0
HMP1355SM-4R7	4.7	3.76	9.0	13.5	11.8

1. Tolerance of inductance is $\pm 20\%$.
2. I_{sat} is the DC current which cause the inductance drop to L_i .
3. I_{rms} is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature : -20°C to 105°C (including self-temperature rise).



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