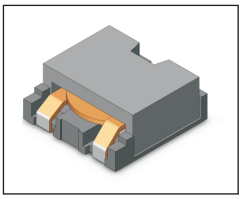
SMT Power Inductor

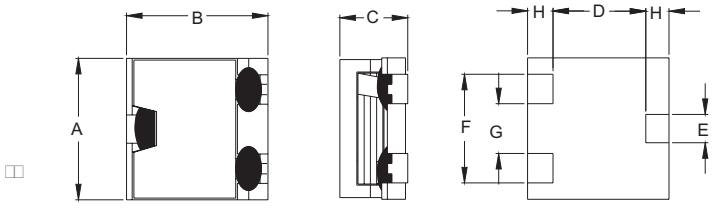
HMU1356S Type

Features

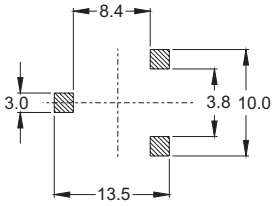
- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT : mm/inch
A = 12.60±0.4 /0.496±0.016
B = 12.70±0.3 / 0.500±0.012
C = 5.60/ 0.220 Max.
D = 8.95/ 0.352
E = 2.50/ 0.098
F = 9.50/ 0.374
G = 4.30/ 0.169
H = 1.90/ 0.075

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

PART NO.	L[1] (uH)	DCR (mΩ) MAX	Isat[2] (Adc)	Irms[3] (Adc)
HMU1356S-R47	0.47	1.5	28.8	19.5
HMU1356S-1R0	1.00	2.2	20.0	18.0
HMU1356S-1R8	1.80	3.4	15.3	15.5
HMU1356S-2R8	2.80	5.4	12.3	12.5
HMU1356S-4R0	4.00	8.0	10.3	9.9
HMU1356S-5R6	5.60	11.4	8.8	8.2
HMU1356S-7R2	7.20	13.5	7.8	7.6

1. Tolerance of inductance is ± 20%.
2. Isat is the DC current which cause the inductance drop approximately 20% of is nominal inductance without current.
3. Irms 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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