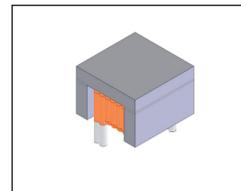


Through Hole Power Inductors

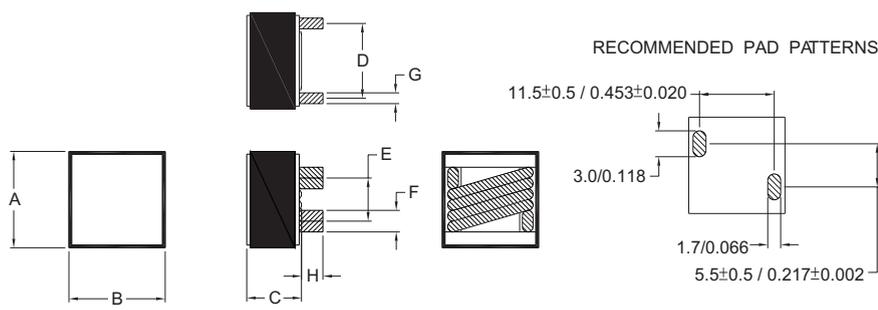
THCN1510 Type

Features

- High current (I_{sat} up to 70A) through hole 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 application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



UNIT:mm/inch
 A = 15.5/0.610 MAX.
 B = 15.5/0.610 MAX.
 C = 10.0/0.394 MAX
 D = 11.5±0.5/0.453±0.020
 E = 5.5±0.5/0.217±0.020
 F = 2.5/0.098 MAX
 G = 1.4/0.055 MAX
 H = 3.4±0.5/0.134±0.002

Electrical Characteristics: At 25°C: 100KHz, 1.0V

PART NO.	L^1 (μ H)	DCR ($m\Omega$) MAX	I_{sat}^2 (A \cdot c)	I_{rms}^3 (A \cdot c)
THCN1510-0R3	0.3	0.8	70	40
THCN1510-0R5	0.5	1.0	60	30
THCN1510-0R6	0.6	1.0	40	30
THCN1510-0R9	0.9	2.5	35	25
THCN1510-1R2	1.2	2.5	30	25
THCN1510-1R5	1.5	3.2	25	22
THCN1510-2R2	2.2	3.6	22	18
THCN1510-3R3	3.3	6.0	19	13
THCN1510-4R7	4.7	6.0	9.0	13

- 1.Tolerance of inductance : 0.3~47 μ H \pm 20%
2. I_{sat} is the DC current which cause the inductance drop less than 20% of its nominal inductance without current
3. I_{rms} is the DC current which cause the surface temperature of the part increase less than 45°C
- 4.Operating temperature: -40°C to 125°C (including self-temperature rise)



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