

THC Series
SMD High Current Inductor
Size 2012



CHARACTERISTICS

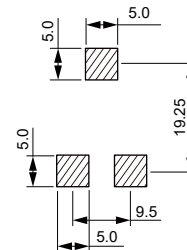
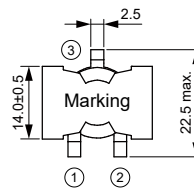
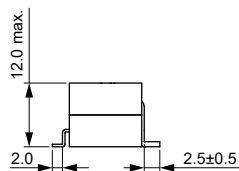
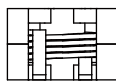
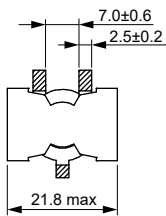
- High saturation current up to 100A
- Low losses with flat wire design
- Low core losses with Mnzn core material
- Quantity:100pcs

APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

| Part No | Inductance (μH) | Tolerance | Temperature Rise Current Typ. (A) | Saturation Current Typ. (A) | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) |
|--------------|-----------------|-----------|-----------------------------------|-----------------------------|-------------------------|-------------------------|
| THC2012-R47M | 0.47 | ±20% | 45.0 | 75.0 | 0.45 | 0.55 |
| THC2012-R82M | 0.82 | ±20% | 45.0 | 55.0 | 0.45 | 0.55 |
| THC2012-1R0M | 1.00 | ±20% | 35.0 | 85.0 | 1.38 | 1.60 |
| THC2012-1R5M | 1.50 | ±20% | 35.0 | 60.0 | 1.38 | 1.60 |
| THC2012-2R2M | 2.20 | ±20% | 28.0 | 50.0 | 2.11 | 2.40 |
| THC2012-3R3M | 3.30 | ±20% | 28.0 | 35.0 | 2.11 | 2.40 |
| THC2012-4R7M | 4.70 | ±20% | 28.0 | 24.0 | 2.11 | 2.40 |
| THC2012-6R8M | 6.80 | ±20% | 28.0 | 16.0 | 2.11 | 2.40 |
| THC2012-8R2M | 8.20 | ±20% | 28.0 | 13.0 | 2.11 | 2.40 |
| THC2012-100M | 10.0 | ±20% | 16.0 | 13.0 | 5.87 | 7.00 |
| THC2012-150M | 15.0 | ±20% | 16.0 | 10.0 | 5.87 | 7.00 |
| THC2012-220M | 22.0 | ±20% | 14.0 | 10.0 | 8.17 | 9.80 |
| THC2012-330M | 33.0 | ±20% | 14.0 | 7.00 | 8.17 | 9.80 |

Operating Temperature: -40℃ to +125℃

Temperature Rise Current: the actual value of DC current when the temperature rise is ΔT40℃

Saturation Current that will cause initial inductance to drop approximately 20%

Typical Electrical Characteristics:

