



※ **Features**

- Small and Low profile inductor;
- It corresponds to High current;
- Simple and Shield structure;
- Available tape and reel for auto insertion;
- Lead free products RoHS compliant;



※ **Application**

- For small DC/DC converter (cellular Phone, LCD/LED/OLED display, HDD, DSC etc);

| Part number | Inductance L0(μH) | DCR (mΩ) ±30% | Heat Rating Current DC Amps. Idc (A) | Saturation Current DC Amps Isat (A) | Test Frequency Min (MHz) |
|-----------------|-------------------|---------------|--------------------------------------|-------------------------------------|--------------------------|
| HTL-NR5012-1R0N | 1.0±30% | 57 | 2.00 | 4.40 | 103 |
| HTL-NR5012-2R2N | 2.2±30% | 90 | 1.70 | 3.10 | 50 |
| HTL-NR5012-3R3N | 3.3±30% | 126 | 1.40 | 2.40 | 34 |
| HTL-NR5012-4R7M | 4.7±20% | 165 | 1.30 | 2.20 | 31 |
| HTL-NR5012-6R8M | 6.8±20% | 245 | 1.00 | 1.70 | 22 |
| HTL-NR5012-100M | 10.0±20% | 344 | 0.85 | 1.40 | 17 |
| HTL-NR5012-150M | 15.0±20% | 436 | 0.80 | 1.20 | 13 |
| HTL-NR5020-1R0N | 1.0±30% | 20 | 3.80 | 4.10 | 114 |
| HTL-NR5020-2R2N | 2.2±30% | 32 | 2.90 | 3.20 | 57 |
| HTL-NR5020-3R3N | 3.3±30% | 43 | 2.50 | 2.55 | 46 |
| HTL-NR5020-4R7M | 4.7±20% | 57 | 2.20 | 2.50 | 37 |
| HTL-NR5020-6R8M | 6.8±20% | 83 | 1.80 | 2.05 | 30 |
| HTL-NR5020-100M | 10.0±20% | 110 | 1.55 | 1.70 | 24 |
| HTL-NR5020-220M | 22.0±20% | 226 | 1.10 | 1.15 | 14 |
| HTL-NR5040-1R0N | 1.0±30% | 12 | 4.90 | 7.35 | 117 |
| HTL-NR5040-2R2N | 2.2±30% | 19 | 3.80 | 4.90 | 50 |
| HTL-NR5040-3R3N | 3.3±30% | 24 | 3.40 | 3.95 | 32 |
| HTL-NR5040-4R7M | 4.7±20% | 30 | 3.00 | 3.50 | 28 |
| HTL-NR5040-6R8M | 6.8±20% | 43 | 2.50 | 2.90 | 21 |
| HTL-NR5040-100M | 10.0±20% | 64 | 2.10 | 2.35 | 18 |
| HTL-NR5040-200M | 20.0±20% | 129 | 1.50 | 1.60 | 11 |

※Note:

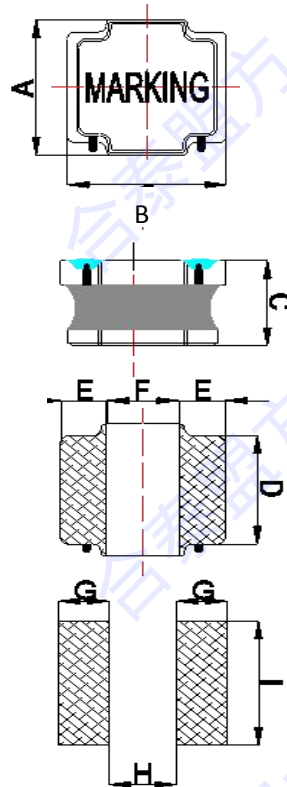
- All test data is reference to 25°C ambient.
- Isat(A):DC current(Isat)that will cause Lo to drop. approximately 30 % Max
- Idc2:DC current(Isat)that will cause an approximate ΔT of 40°C.
- Operate between temperature range:-50°C to +125°C

※ **Regulation of Part number**

HTL - NR 5020 - 2R2 N
① ② ③ ④ ⑤

- ① Hotland Inductor;
- ② Series Code;
- ③ Dimensions(unit:mm):5.0x5.0x2.0;
- ④ Typical Inductance Value:2R2=2.2μH;
- ⑤ Tolerance:M=±20 %,N=±30 %;

※ **Shapes And Dimensions (unit:mm)**



| Dimensions (mm) | | Series |
|-----------------|-------------|--------|
| A | 5.00 ± 0.20 | |
| B | 5.00 ± 0.20 | |
| C | 1.20 Max | 5012 |
| | 2.00 Max | 5020 |
| | 4.00 Max | 5040 |
| D | 4.00 ± 0.20 | |
| E | 1.25 ± 0.20 | |
| F | 2.50 ± 0.20 | |
| G | 1.40 Typ | |
| H | 2.30 Typ | |
| I | 4.20 Typ | |

Suggested pad layout
Dimensions are in mm