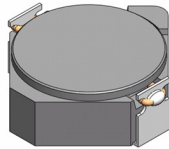


SMD Power Inductor CDRH50D20/T150



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Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.2 × 5.2 × 2.2 mm Max.
- Product weight: 0.2g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C ~ +150°C
- (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +150°C
- Solder reflow temperature: 260 °C peak.

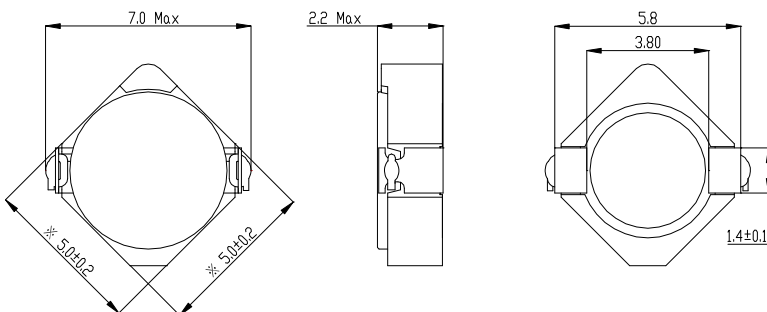
Packaging

- Carrier tape and reel packaging

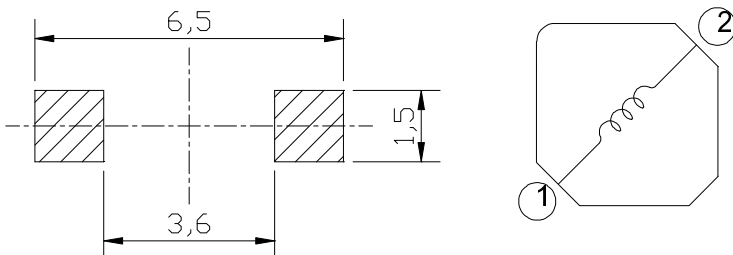
Applications

- Automotive and other high temperature, high reliability application.

Dimension - [mm]

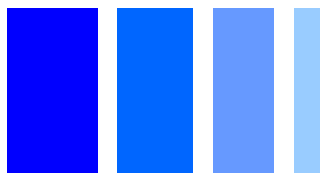


Land pattern and Schematics - [mm]



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CDRH50D20/T150



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Electrical Characteristics

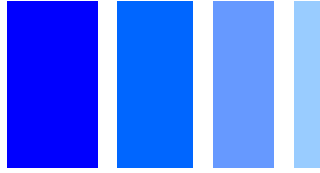
| Part No. | Stamp | Inductance [Within] [μ H] ※1 | D. C. R. ($m\Omega$) [Max.] (at 20°C) | Saturation Current (A) (at 20°C) ※2 | Temperature Rise Current (A) typ. ※3 |
|-----------------------|-------|--|--|--|---|
| CDRH50D20T150NP-1R2NC | 1R2 | 1.2 \pm 30% | 30 (24) | 4.00 | 3.40 |
| CDRH50D20T150NP-1R8NC | 1R8 | 1.8 \pm 30% | 36 (29) | 3.40 | 3.12 |
| CDRH50D20T150NP-2R2NC | 2R2 | 2.2 \pm 30% | 40 (33) | 3.06 | 2.88 |
| CDRH50D20T150NP-3R3NC | 3R3 | 3.3 \pm 30% | 50 (41) | 2.51 | 2.52 |
| CDRH50D20T150NP-4R7NC | 4R7 | 4.7 \pm 30% | 74 (62) | 2.04 | 2.08 |
| CDRH50D20T150NP-6R8NC | 6R8 | 6.8 \pm 30% | 110 (91) | 1.73 | 1.75 |
| CDRH50D20T150NP-100MC | 100 | 10.0 \pm 20% | 144 (120) | 1.41 | 1.51 |
| CDRH50D20T150NP-150MC | 150 | 15.0 \pm 20% | 240 (200) | 1.15 | 1.08 |
| CDRH50D20T150NP-220MC | 220 | 22.0 \pm 20% | 320 (265) | 0.97 | 0.98 |
| CDRH50D20T150NP-330MC | 330 | 33.0 \pm 20% | 440 (365) | 0.78 | 0.83 |
| CDRH50D20T150NP-470MC | 470 | 47.0 \pm 20% | 690 (575) | 0.66 | 0.61 |
| CDRH50D20T150NP-101MC | 101 | 100 \pm 20% | 1280 (1100) | 0.45 | 0.52 |

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

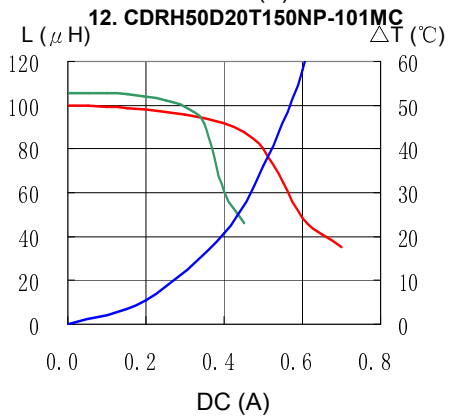
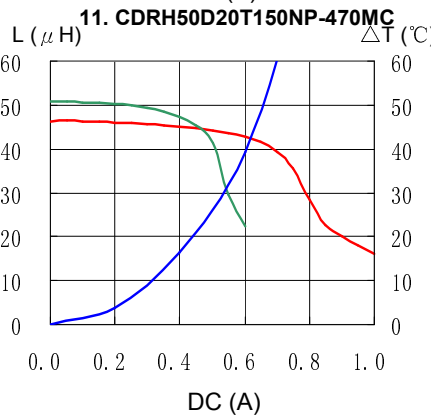
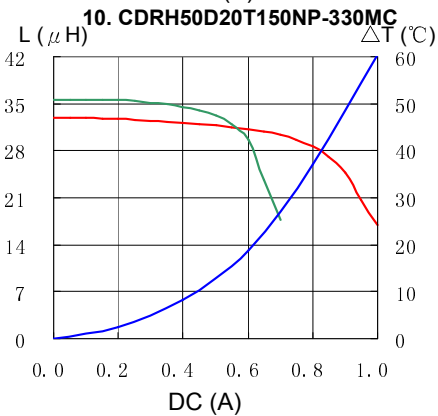
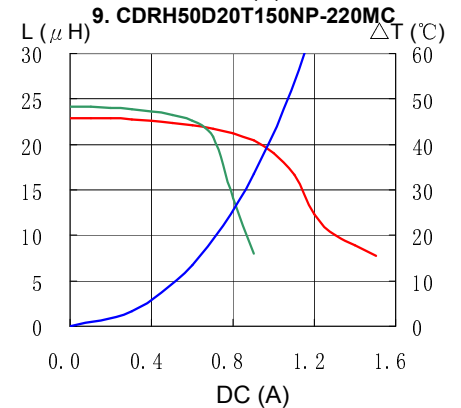
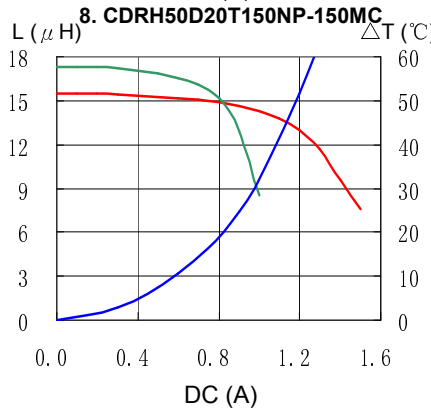
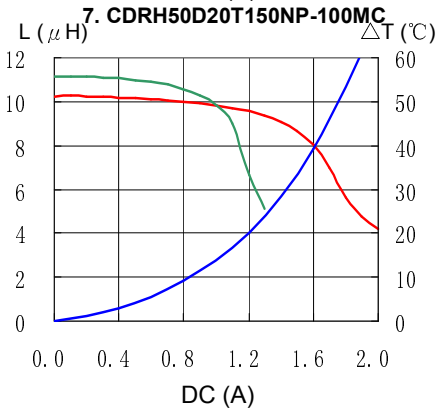
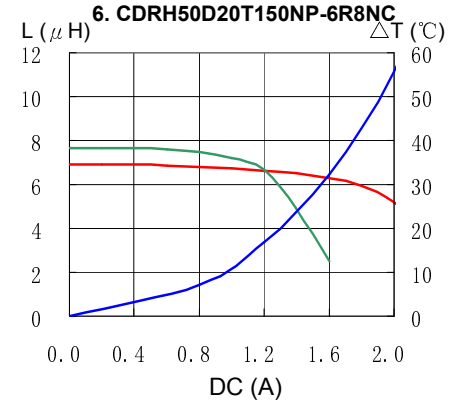
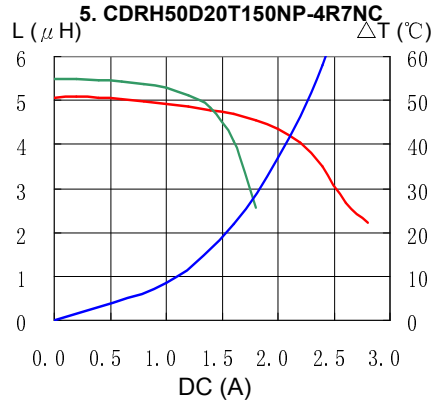
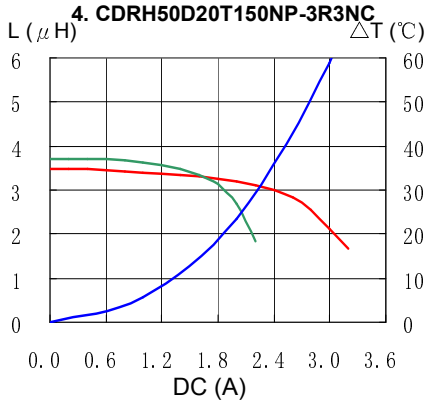
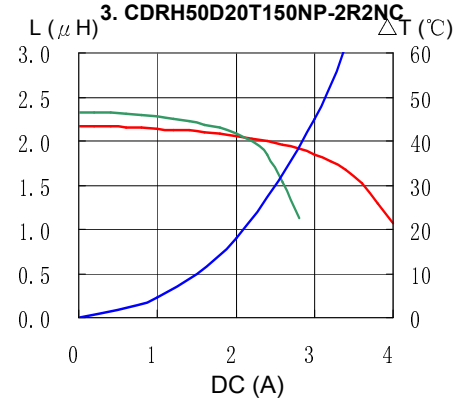
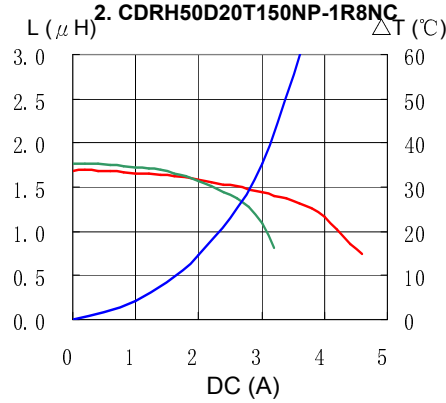
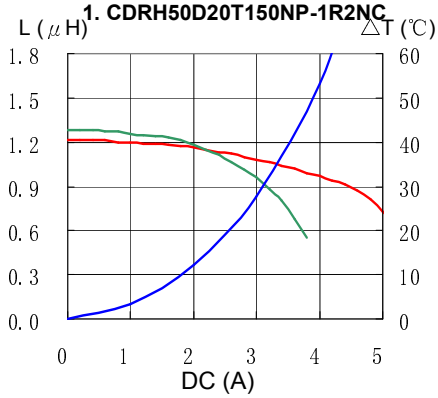
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Saturation Current & Temperature Rise Graph

— L (25°C) — L (150°C) — ΔT



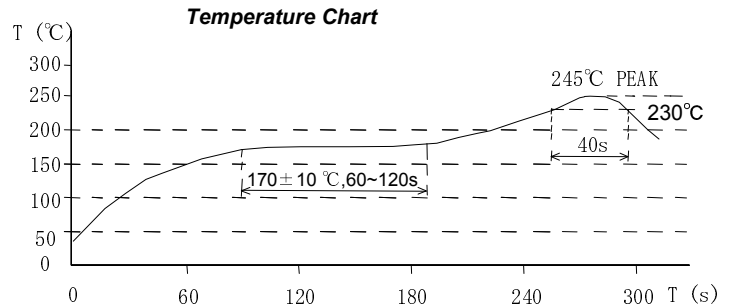
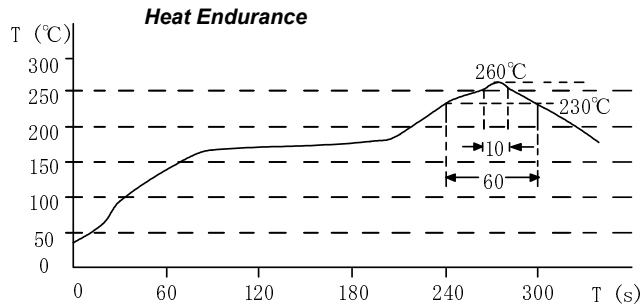
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Solder Reflow Condition



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