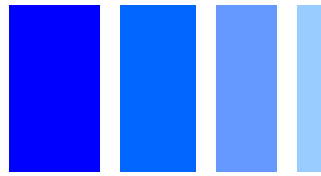


SMD Power Inductor

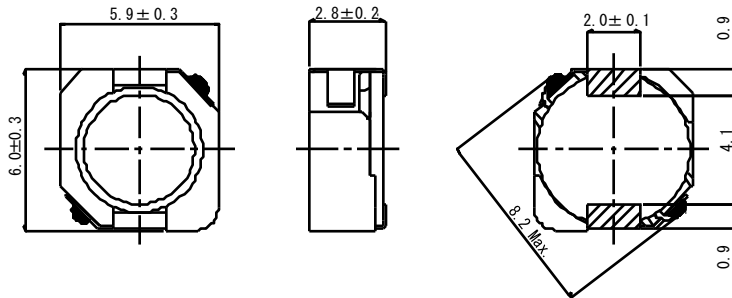
CDRH5D28R/H125



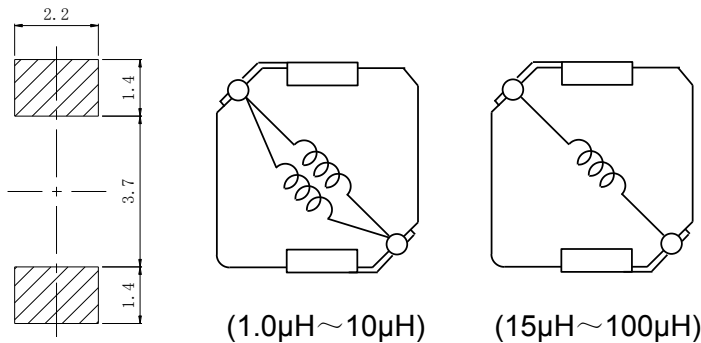
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.35g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

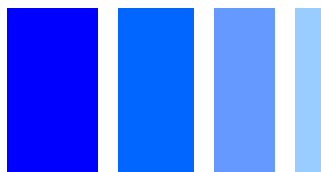
- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

Applications

- Automotive and other high temperature, high reliability application.

SMD Power Inductor

CDRH5D28R/H125



Electrical Characteristics

| Part No. | Stamp | Inductance [μ H] 100kHz | D.C.R. (m Ω) [Max.] (at 20°C) | Saturation current (A) ※1 | | Temperature rise current (A)※2 |
|-----------------------|-------|------------------------------------|--|------------------------------|--------------------|-----------------------------------|
| | | | | (at 20°C) | (at 125°C) Typ. | |
| CDRH5D28RH125NP-1R0PC | 1R0 | 1.0 \pm 25% | 17.0(13.5) | 7.10 | 5.60 | 4.10 |
| CDRH5D28RH125NP-1R5PC | 1R5 | 1.5 \pm 25% | 20.0(16.0) | 6.50 | 5.10 | 3.60 |
| CDRH5D28RH125NP-2R4PC | 2R4 | 2.4 \pm 25% | 27.0(21.5) | 5.30 | 4.00 | 3.20 |
| CDRH5D28RH125NP-3R3PC | 3R3 | 3.3 \pm 25% | 35.5(28.5) | 4.30 | 3.40 | 2.72 |
| CDRH5D28RH125NP-4R7PC | 4R7 | 4.7 \pm 25% | 54.0(43.0) | 3.70 | 2.89 | 2.20 |
| CDRH5D28RH125NP-6R8PC | 6R8 | 6.8 \pm 25% | 77.5(62.0) | 3.08 | 2.44 | 1.80 |
| CDRH5D28RH125NP-100MC | 100 | 10 \pm 20% | 121(97.0) | 2.46 | 1.93 | 1.40 |
| CDRH5D28RH125NP-150MC | 150 | 15 \pm 20% | 148(118) | 2.08 | 1.63 | 1.24 |
| CDRH5D28RH125NP-220MC | 220 | 22 \pm 20% | 266(213) | 1.70 | 1.33 | 0.90 |
| CDRH5D28RH125NP-330MC | 330 | 33 \pm 20% | 334(267) | 1.41 | 1.12 | 0.80 |
| CDRH5D28RH125NP-470MC | 470 | 47 \pm 20% | 500(400) | 1.16 | 0.91 | 0.64 |
| CDRH5D28RH125NP-680MC | 680 | 68 \pm 20% | 685(548) | 0.95 | 0.74 | 0.54 |
| CDRH5D28RH125NP-101MC | 101 | 100 \pm 20% | 1020(815) | 0.80 | 0.62 | 0.46 |

※1. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

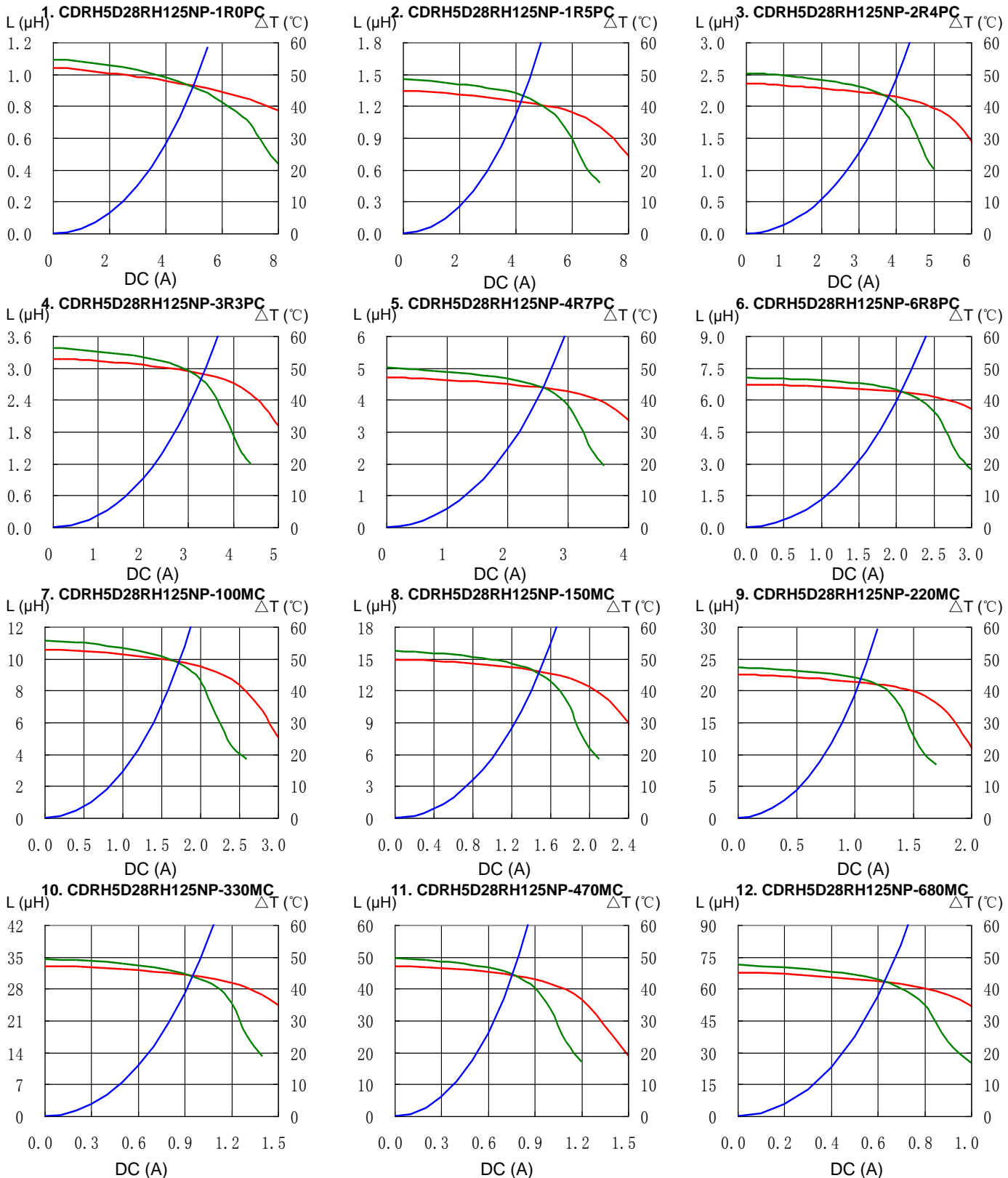
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH5D28R/H125

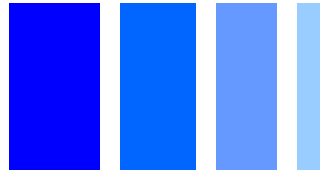


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

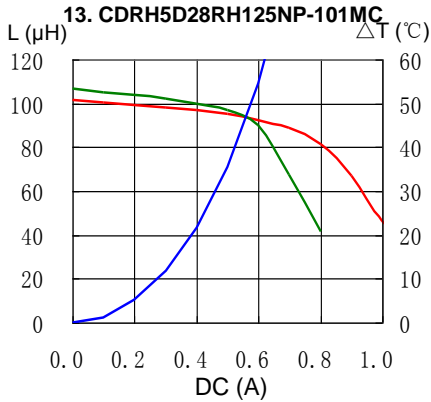


SMD Power Inductor CDRH5D28R/H125



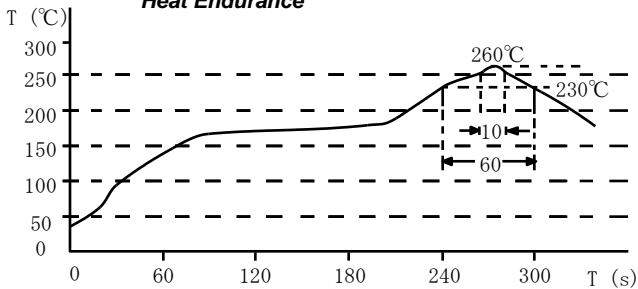
Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT



Solder Reflow Condition

Heat Endurance



Temperature Chart

