

SMD Power Inductor CDRH50D23/A



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.5 × 5.6 × 2.5 mm Max.
- Product weight: 0.2g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified to AEC-Q200.

Environmental Data

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

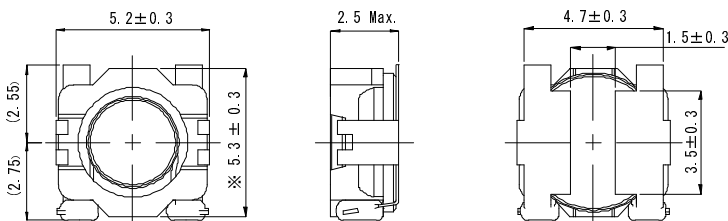
Packaging

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

Applications

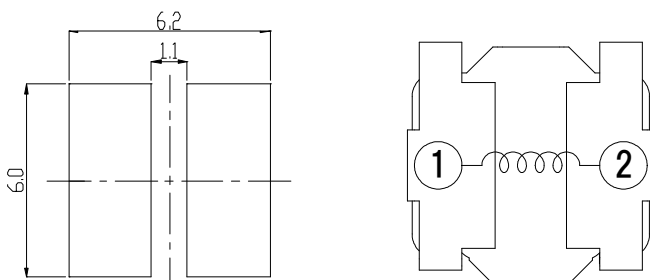
- Automotive.

Dimension - [mm]



※ that including the solder icicles.

Land pattern and Schematics - [mm]



Electrical Characteristics

| Part No. | Stamp | Inductance (μ H) 100kHz [Within] | D.C.R.(m Ω) [Max.] (at 20°C)※1 | Rated current (A) (at 125°C)※2 |
|--------------------|-------|---------------------------------------------|----------------------------------------------|--------------------------------------|
| CDRH50D23ANP-4R7NC | A | 4.7 ± 30% | 84(67) | 1.23 |
| CDRH50D23ANP-6R8NC | B | 6.8 ± 30% | 124(99) | 0.96 |
| CDRH50D23ANP-100NC | C | 10 ± 30% | 189(151) | 0.82 |
| CDRH50D23ANP-150NC | D | 15 ± 30% | 305(244) | 0.68 |
| CDRH50D23ANP-220NC | E | 22 ± 30% | 390(312) | 0.53 |

※ 1.() are typical value.

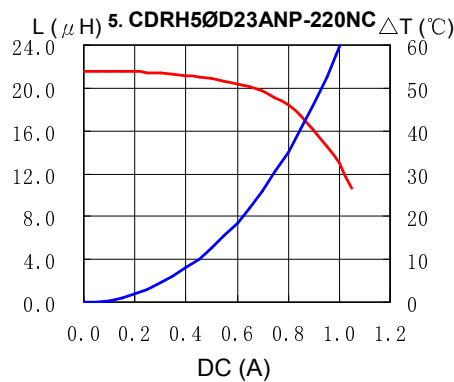
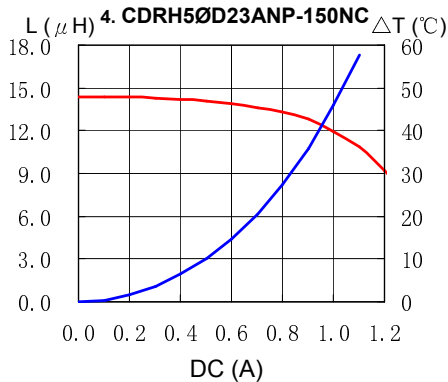
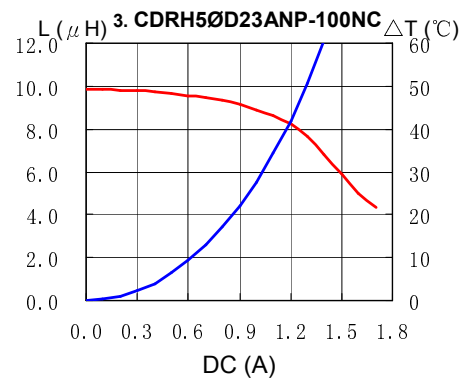
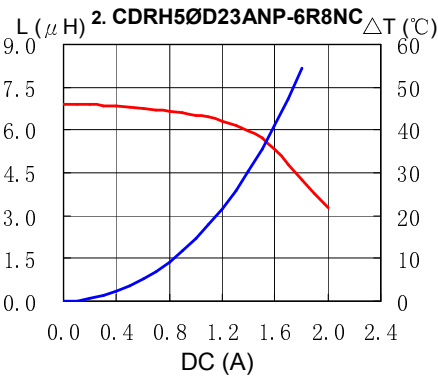
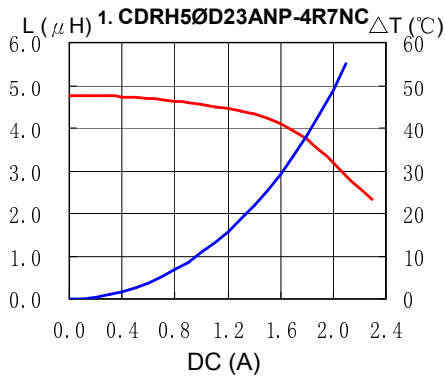
※ 2.The rated DC Current indicates the DC current when the inductance decreases to maximum 65% of nominal value or DC current when the temperature of coil is increased to 30°C.The smaller one is defined as DC rated current.

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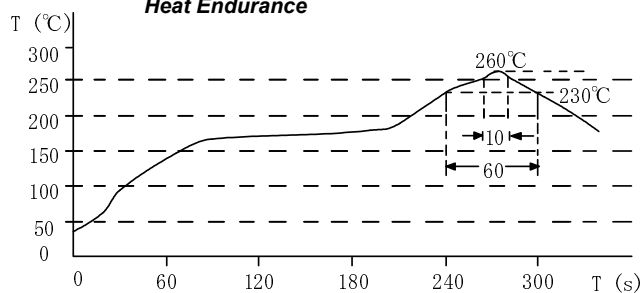


Saturation Current & Temperature Rise Graph

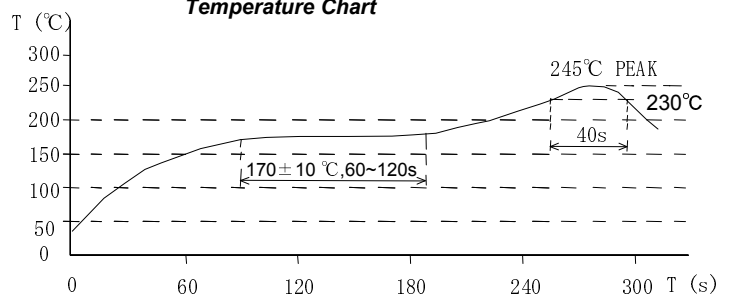
— L (20°C) — ΔT



Solder Reflow Condition Heat Endurance



Temperature Chart



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