

SMD Power Inductor CDRH2D11/HP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.2 mm Max.
- Product weight: 37mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

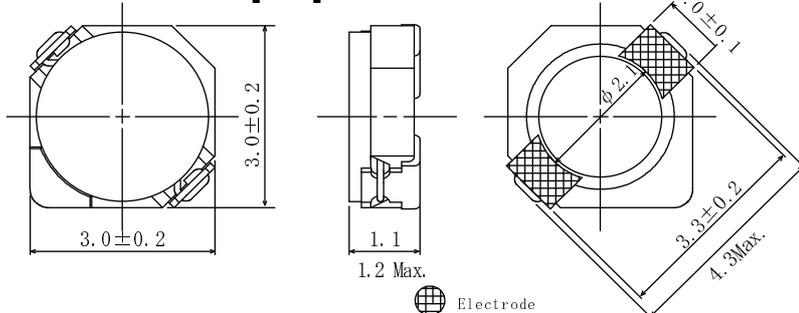
Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1500pcs per reel

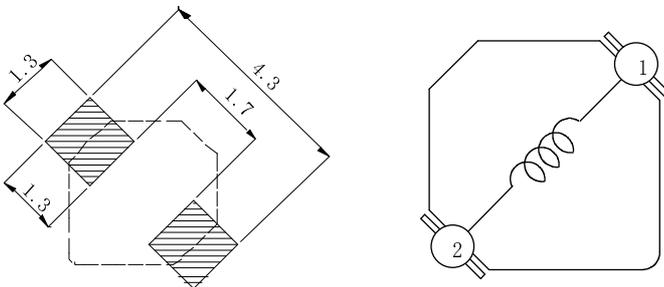
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

| Part Name | Stamp | Inductance (μ H) [within] ※1 | D.C.R. (m Ω) Max. (Typ.) (at 20°C) | Saturation Current (A) ※2 | | Temperature Rise Current (A) ※3 |
|---------------------|-------|--|--|------------------------------|----------|---------------------------------------|
| | | | | at 20°C | at 100°C | |
| CDRH2D11/HPNP-1R5NC | A | 1.5 ± 30% | 80(64) | 1.35 | 1.0 | 1.60 |
| CDRH2D11/HPNP-2R2NC | C | 2.2 ± 30% | 120(96) | 1.10 | 0.72 | 1.30 |
| CDRH2D11/HPNP-3R3NC | E | 3.3 ± 30% | 173(138) | 0.90 | 0.65 | 0.90 |
| CDRH2D11/HPNP-4R7NC | G | 4.7 ± 30% | 238(190) | 0.75 | 0.52 | 0.85 |
| CDRH2D11/HPNP-6R8NC | I | 6.8 ± 30% | 371(297) | 0.63 | 0.45 | 0.65 |
| CDRH2D11/HPNP-100NC | K | 10.0 ± 30% | 559(447) | 0.52 | 0.37 | 0.52 |

※1. Inductance measuring condition: at 100kHz.

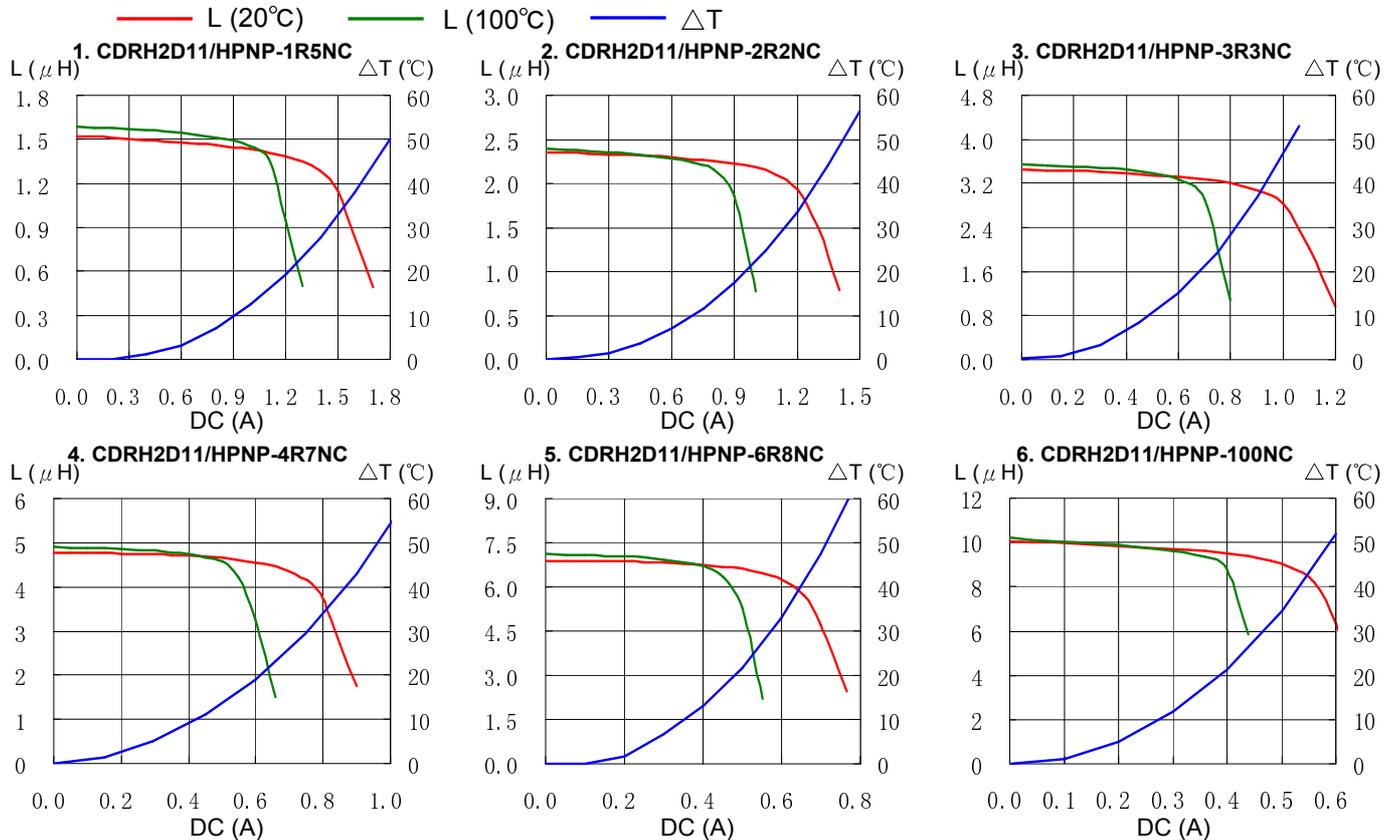
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

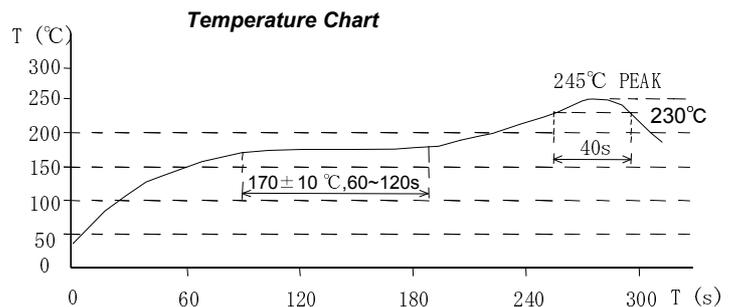
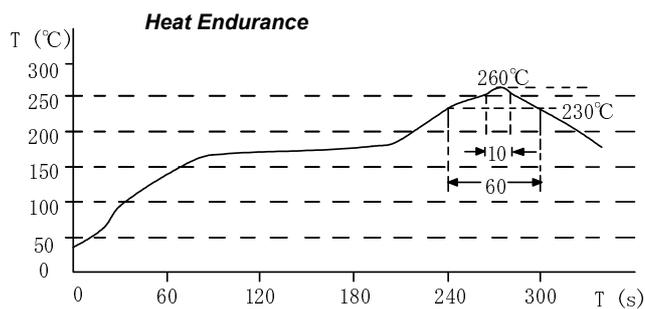
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Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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Hong Kong
Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)
Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai
Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Oberzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore
Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com