

# 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.

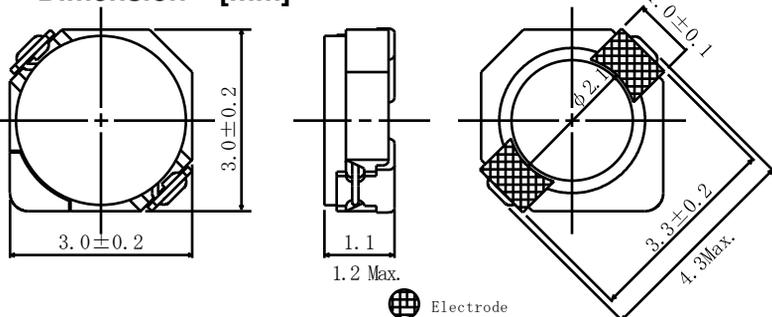
## Packaging

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

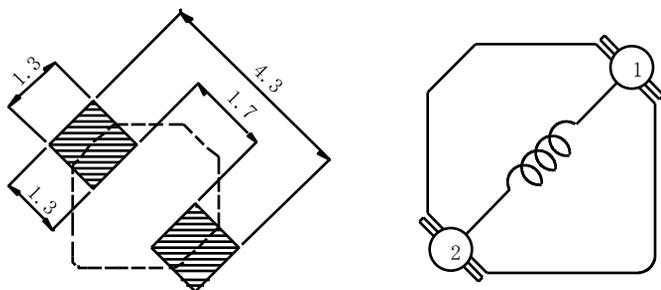
## Applications

- 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 (μH) [ within ] ※1	D.C.R. (mΩ) 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 its nominal value.

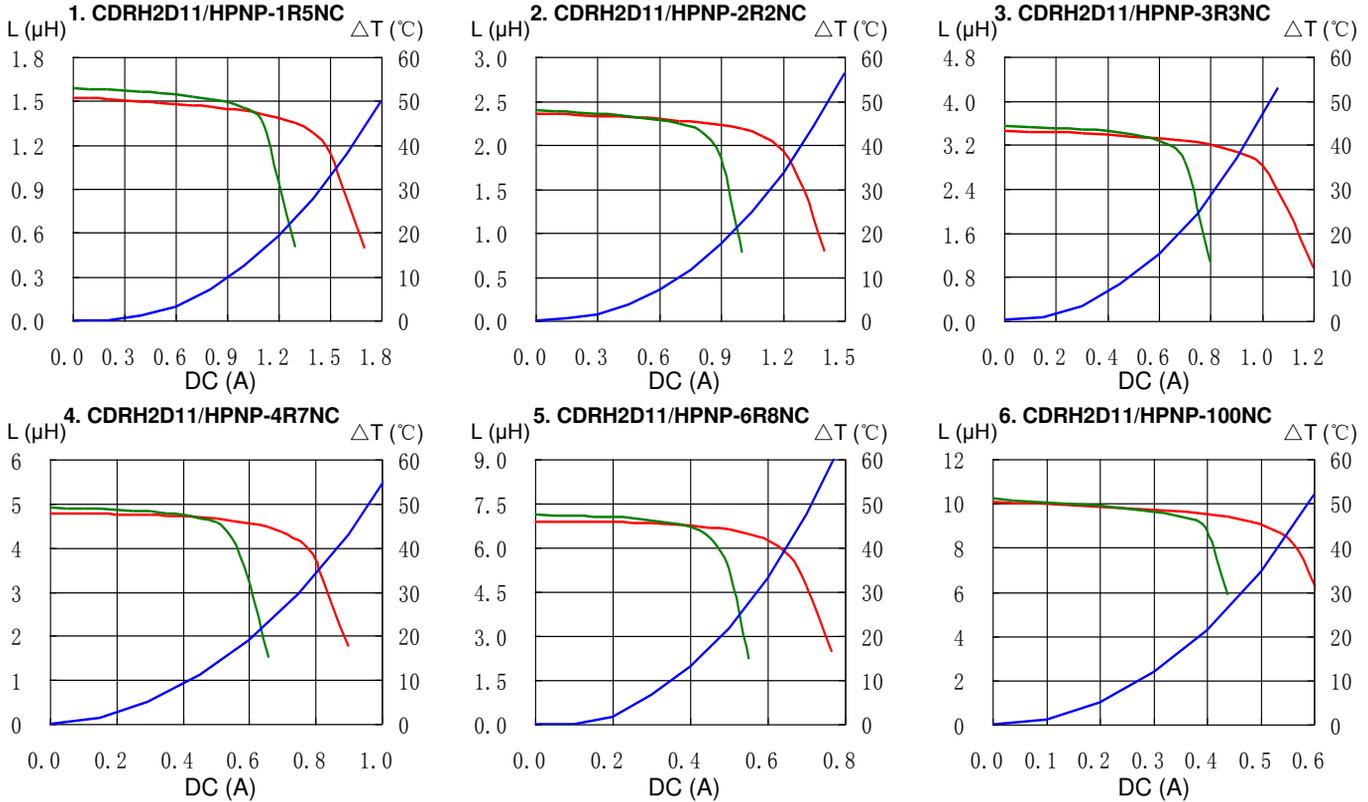
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt = 40°C (Ta = 20°C).

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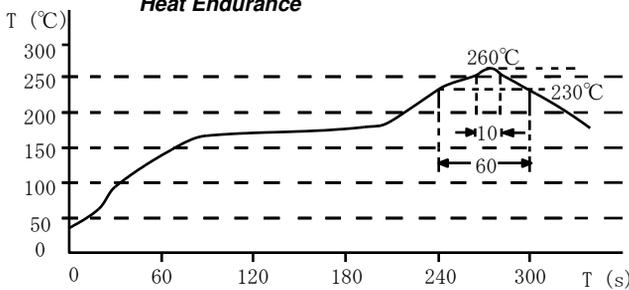
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

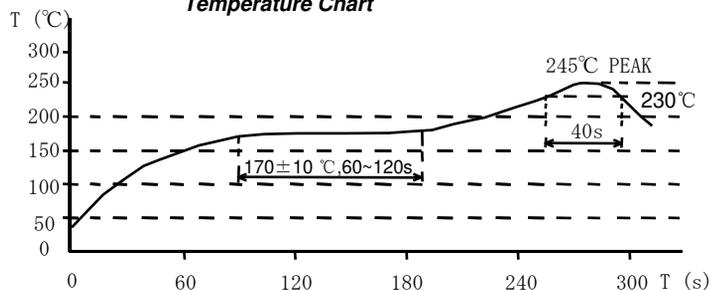


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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