



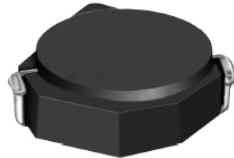
**THE DATASHEET OF
CDRH2D11/HPNP-100NC**



SMD Power Inductor CDRH2D11B/HP



Halogen Free



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.
- Halogen Free available.

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.

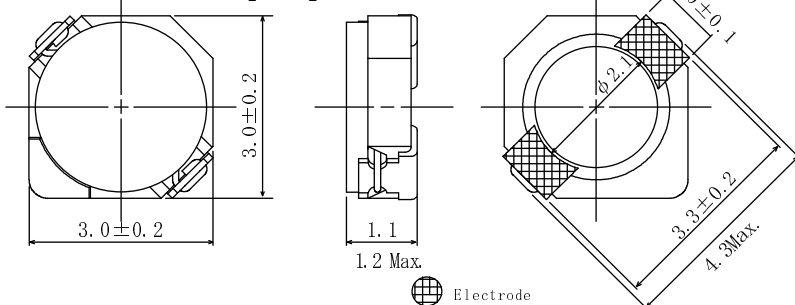
Packaging

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

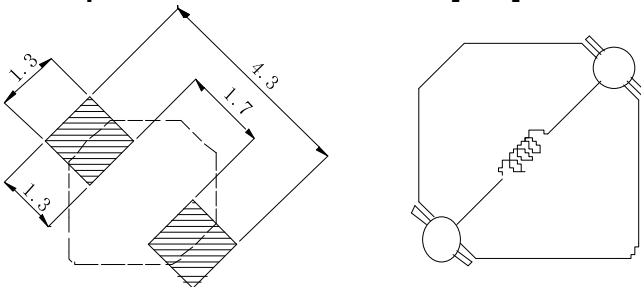
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

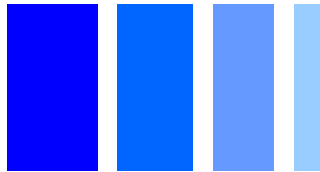
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH2D11BHPHF-1R0PC	A	1.0 ± 25%	68.6(54.9)	2.10	1.70	1.75
CDRH2D11BHPHF-1R5PC	B	1.5 ± 25%	103.9(83.1)	1.65	1.40	1.45
CDRH2D11BHPHF-1R8PC	C	1.8 ± 25%	116.1(92.9)	1.50	1.30	1.30
CDRH2D11BHPHF-2R2PC	D	2.2 ± 25%	133.3(106.6)	1.40	1.20	1.15
CDRH2D11BHPHF-3R3PC	E	3.3 ± 25%	194.6(156.7)	1.15	0.94	0.95
CDRH2D11BHPHF-4R7PC	F	4.7 ± 25%	234.6(187.7)	0.95	0.80	0.80
CDRH2D11BHPHF-5R6PC	G	5.6 ± 25%	281.9(225.5)	0.90	0.75	0.76
CDRH2D11BHPHF-6R8PC	H	6.8 ± 25%	359.4(287.5)	0.78	0.65	0.65
CDRH2D11BHPHF-8R2PC	I	8.2 ± 25%	405.5(324.4)	0.73	0.60	0.62
CDRH2D11BHPHF-100PC	J	10.0 ± 25%	552.5(442.0)	0.63	0.52	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.

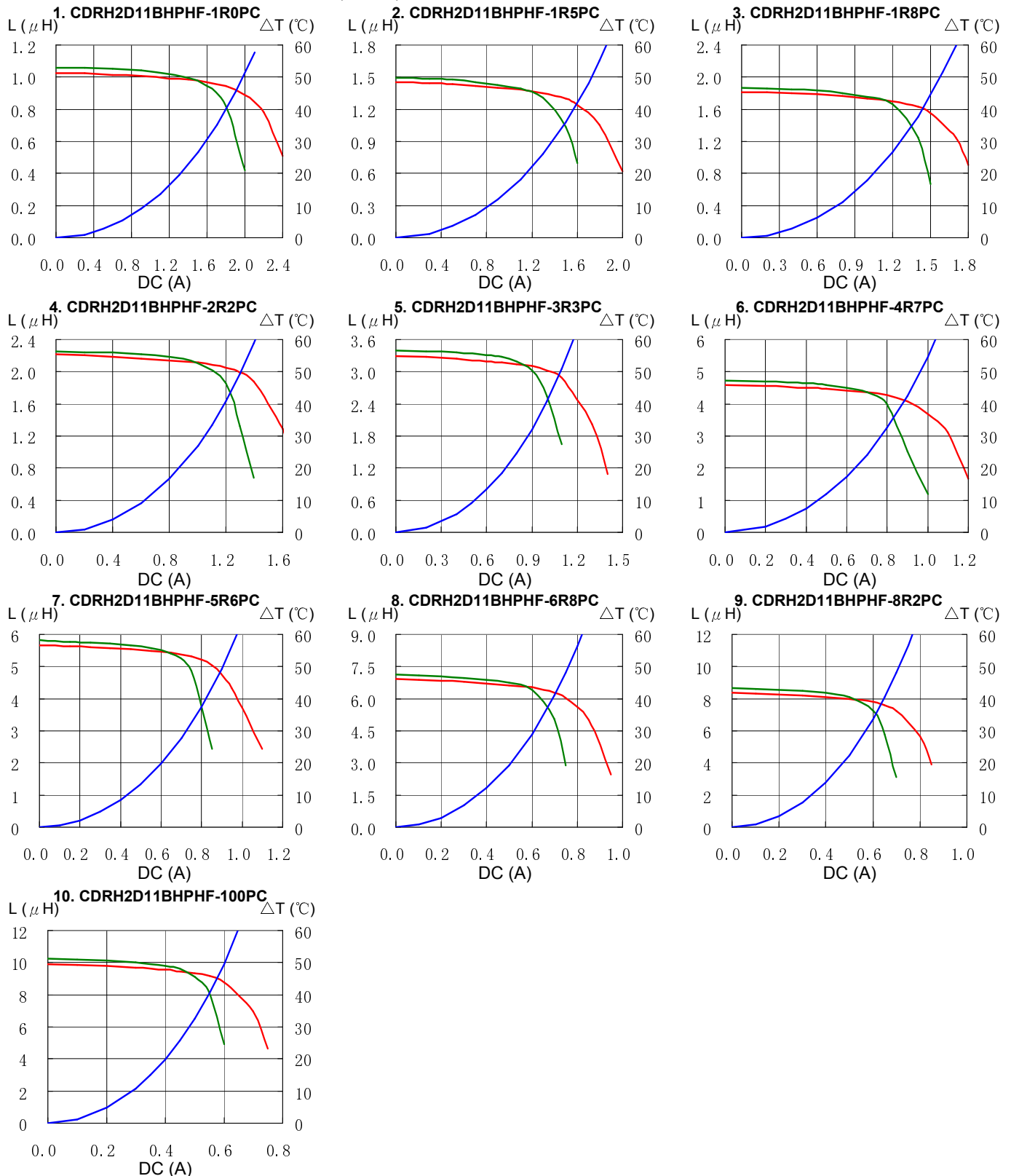
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

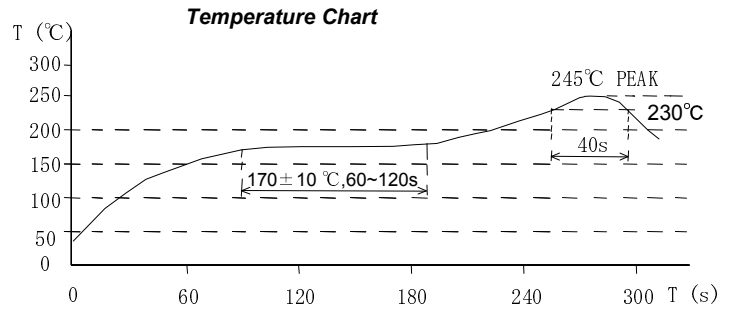
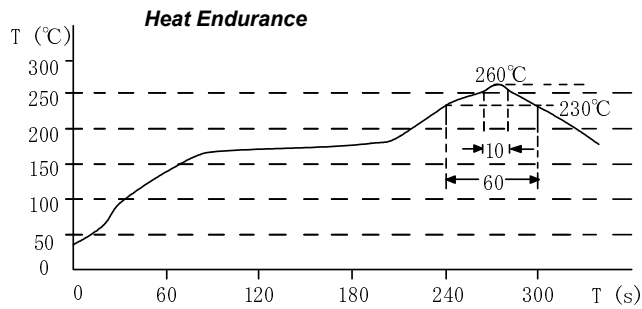
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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