

SMD Power Inductor CDRH7D16/HP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.0 × 7.7 × 1.8 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

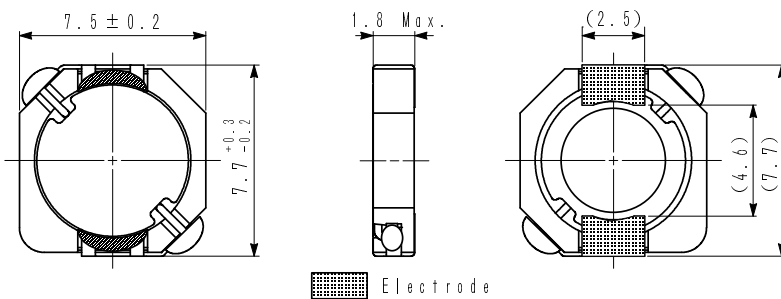
Packaging

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

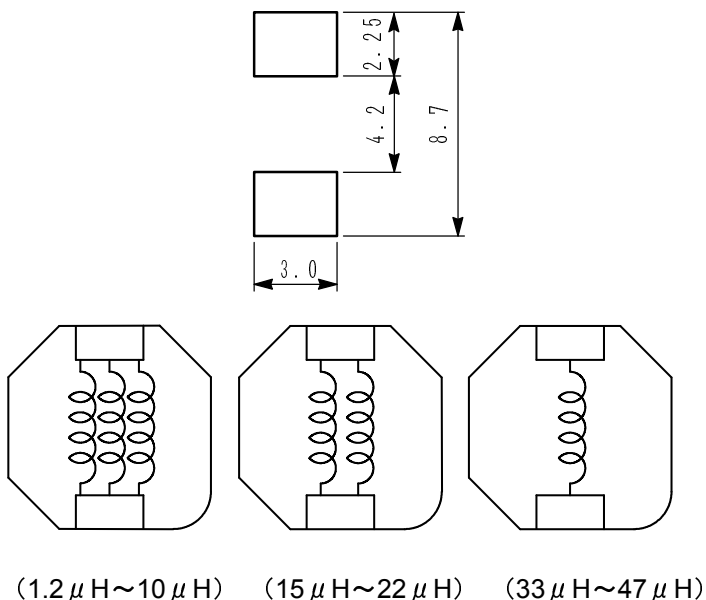
Applications

- Ideally used in Notebook PC, Game machine, HDD, DVC, LCD TV etc. as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [within] ※ 1	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) ※ 2		Temperature Rise Current (A) ※ 3
				at 20°C	at 100°C	
CDRH7D16HPNP-1R2PC	1R2	1.2 \pm 25%	17.4 \pm 25%	5.50	4.80	4.54
CDRH7D16HPNP-1R8PC	1R8	1.8 \pm 25%	23.6 \pm 25%	4.60	3.80	3.85
CDRH7D16HPNP-2R4PC	2R4	2.4 \pm 25%	30.1 \pm 25%	4.00	3.40	3.37
CDRH7D16HPNP-3R3PC	3R3	3.3 \pm 25%	38.0 \pm 25%	3.40	2.80	2.84
CDRH7D16HPNP-4R7PC	4R7	4.7 \pm 25%	55.6 \pm 25%	2.90	2.40	2.33
CDRH7D16HPNP-6R8PC	6R8	6.8 \pm 25%	74.4 \pm 25%	2.40	2.00	2.00
CDRH7D16HPNP-100MC	100	10 \pm 20%	103 \pm 20%	2.00	1.60	1.70
CDRH7D16HPNP-150MC	150	15 \pm 20%	153 \pm 20%	1.60	1.40	1.34
CDRH7D16HPNP-220MC	220	22 \pm 20%	216 \pm 20%	1.30	1.10	1.14
CDRH7D16HPNP-330MC	330	33 \pm 20%	345 \pm 20%	1.10	0.90	0.91
CDRH7D16HPNP-470MC	470	47 \pm 20%	479 \pm 20%	0.90	0.70	0.72

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

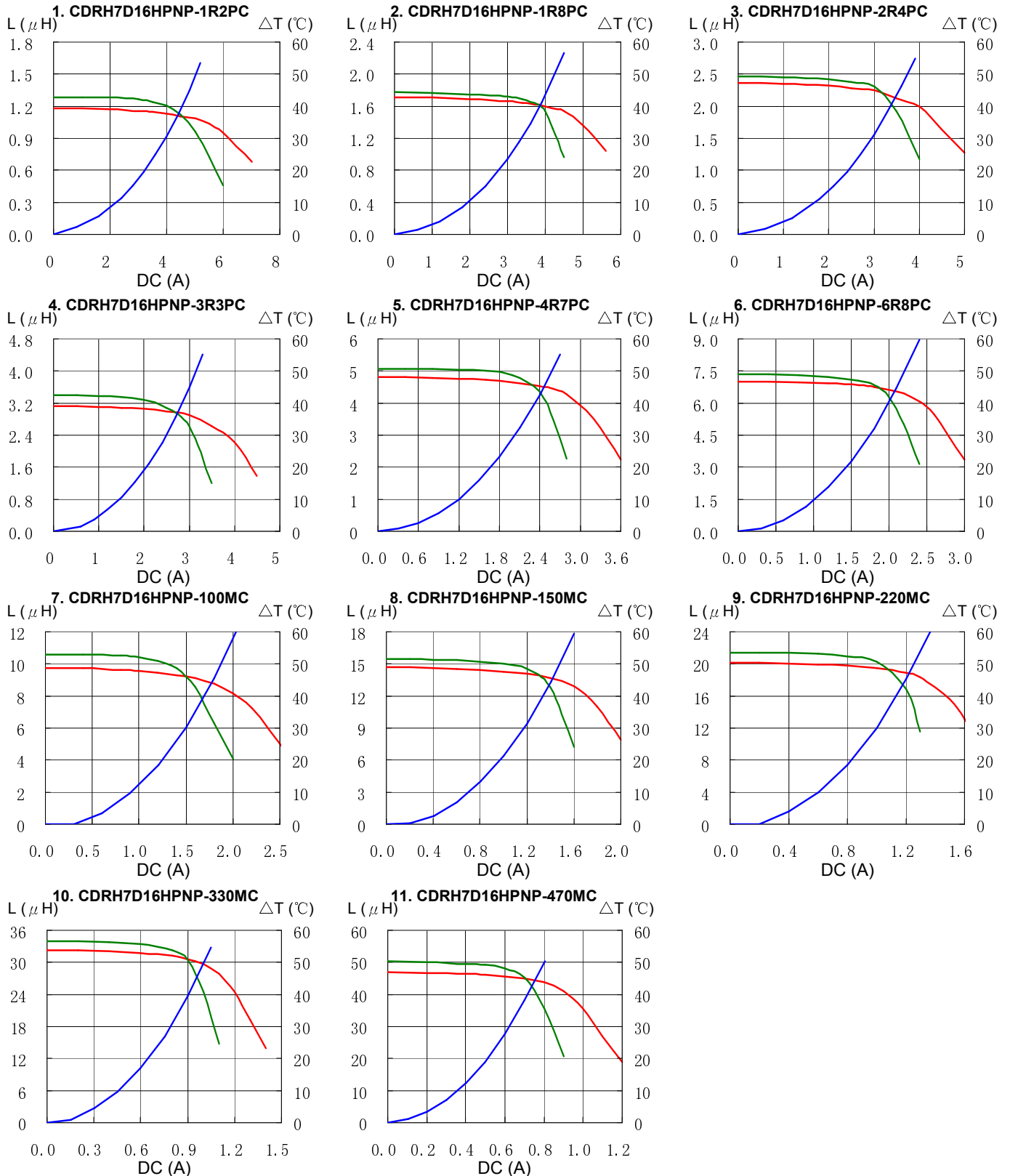
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

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Saturation Current & Temperature Rise Graph

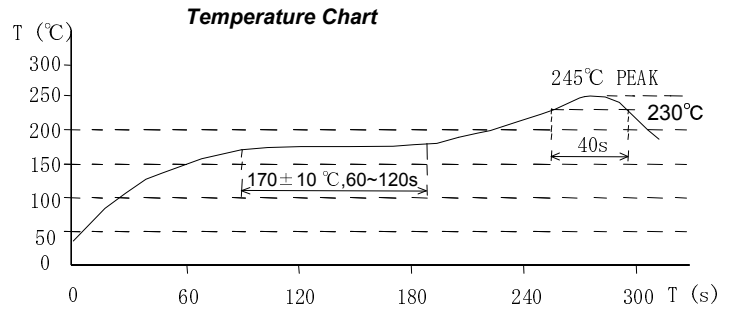
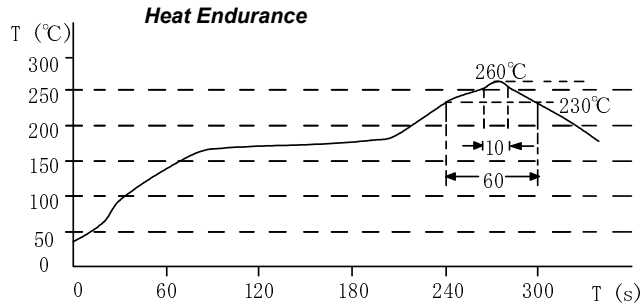
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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

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