

SMD Power Inductor CDRH7D16



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.

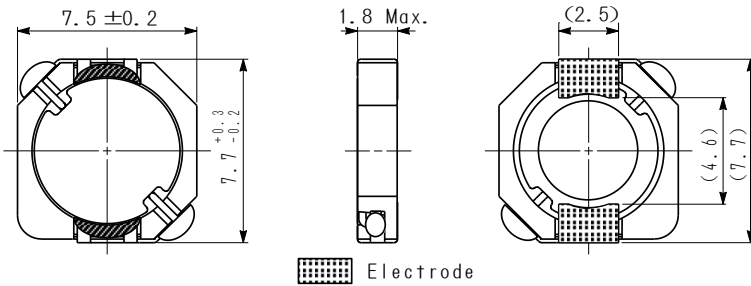
Packaging

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

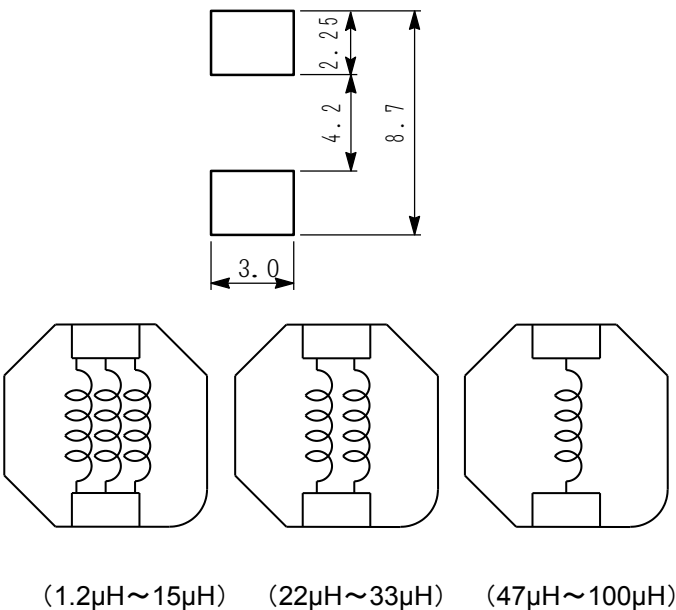
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]





Electrical Characteristics

Part No.	Stamp	Inductance (μH) [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	
CDRH7D16NP-1R2PC	1R2	1.2 \pm 25%	16.8 \pm 25%	4.60	4.00	4.94
CDRH7D16NP-1R8PC	1R8	1.8 \pm 25%	20.4 \pm 25%	3.60	3.00	4.21
CDRH7D16NP-2R4PC	2R4	2.4 \pm 25%	24.8 \pm 25%	3.10	2.50	3.77
CDRH7D16NP-3R3PC	3R3	3.3 \pm 25%	30.9 \pm 25%	2.70	2.30	3.23
CDRH7D16NP-4R7PC	4R7	4.7 \pm 25%	45.4 \pm 25%	2.40	1.90	2.65
CDRH7D16NP-6R8PC	6R8	6.8 \pm 25%	61.0 \pm 25%	2.00	1.60	2.24
CDRH7D16NP-100MC	100	10 \pm 20%	78.6 \pm 25%	1.60	1.30	1.97
CDRH7D16NP-150MC	150	15 \pm 20%	115 \pm 20%	1.30	1.10	1.59
CDRH7D16NP-220MC	220	22 \pm 20%	161 \pm 20%	1.10	0.90	1.23
CDRH7D16NP-330MC	330	33 \pm 20%	246 \pm 20%	0.92	0.75	1.04
CDRH7D16NP-470MC	470	47 \pm 20%	369 \pm 20%	0.76	0.60	0.81
CDRH7D16NP-680MC	680	68 \pm 20%	517 \pm 20%	0.64	0.50	0.71
CDRH7D16NP-101MC	101	100 \pm 20%	696 \pm 20%	0.53	0.40	0.59

※1. Inductance measuring conditions at 100kHz.

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

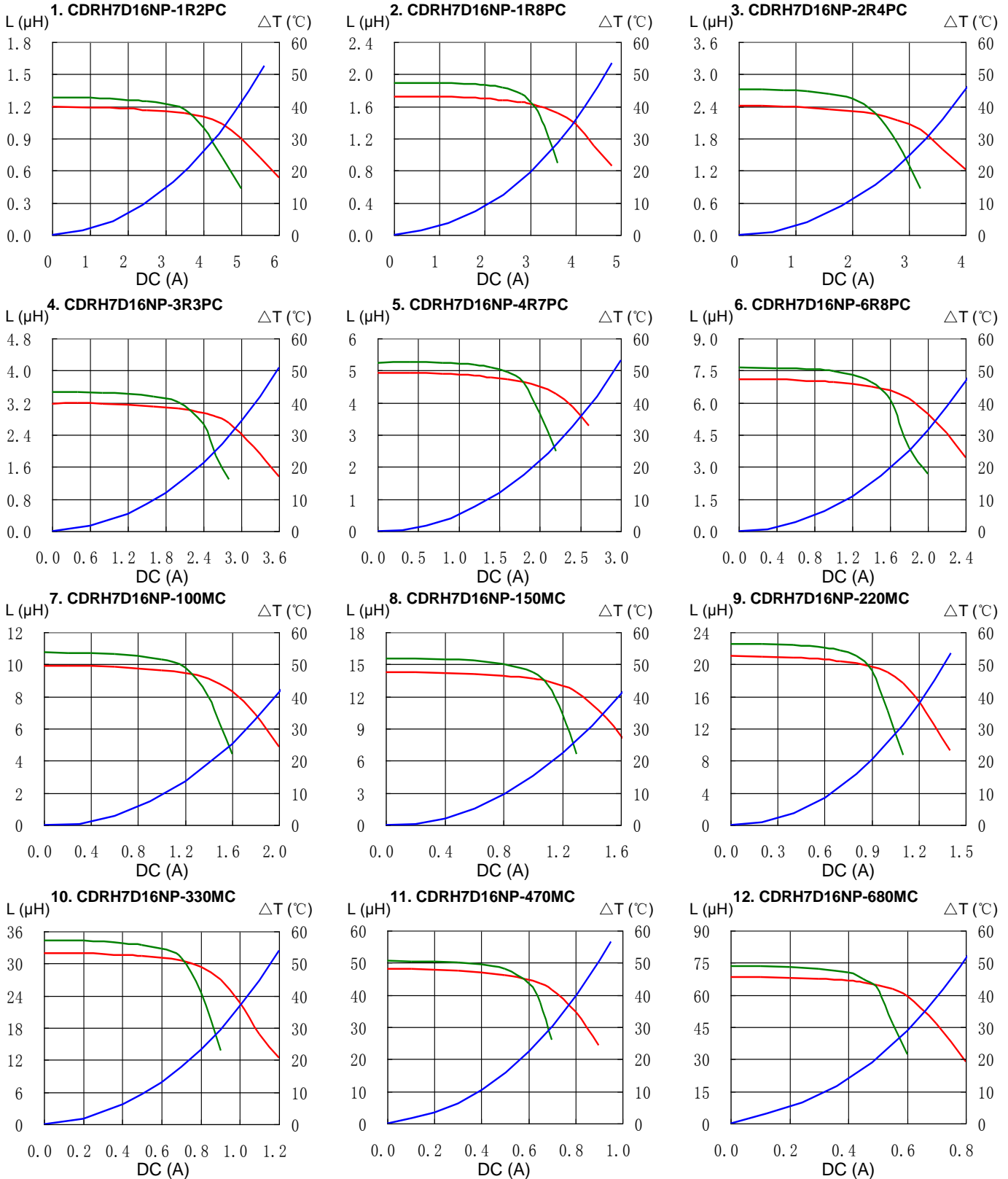
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^\circ\text{C}$. ($T_a=20^\circ\text{C}$)

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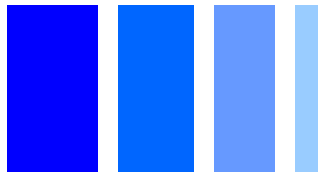


Saturation Current & Temperature Rise Graph

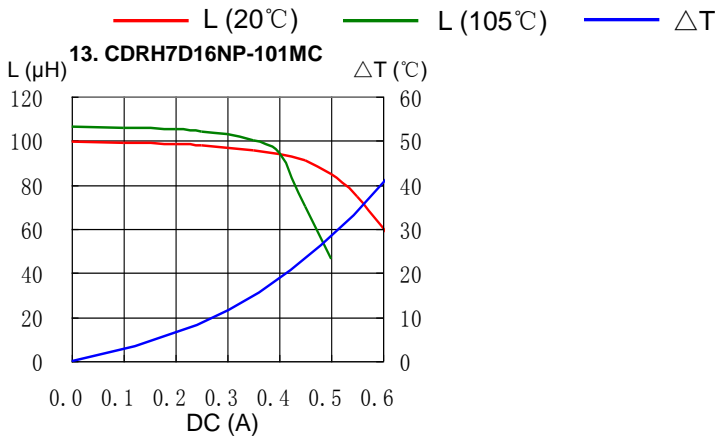
— L (20°C) — L (105°C) — ΔT



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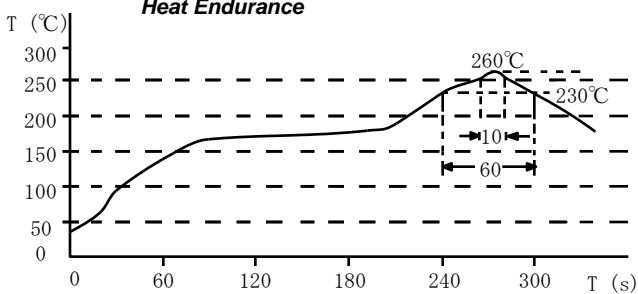


Saturation Current & Temperature Rise Graph

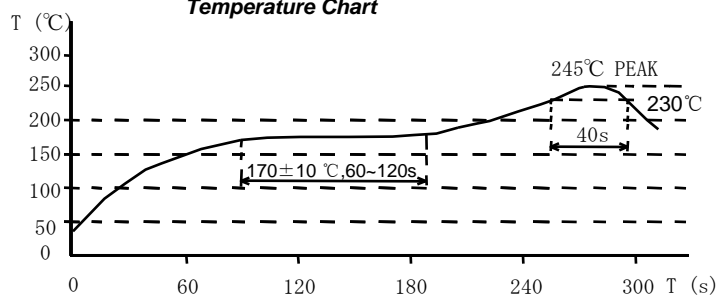


Solder Reflow Condition

Heat Endurance



Temperature Chart



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