

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

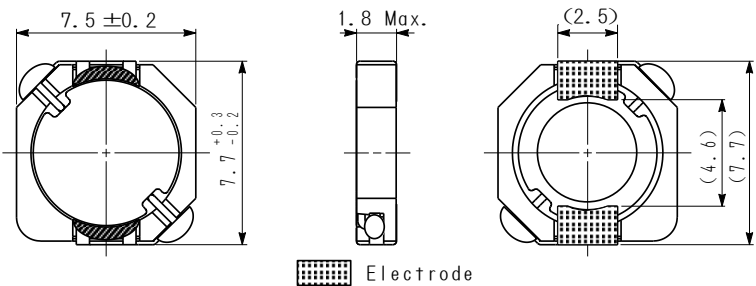
Packaging

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

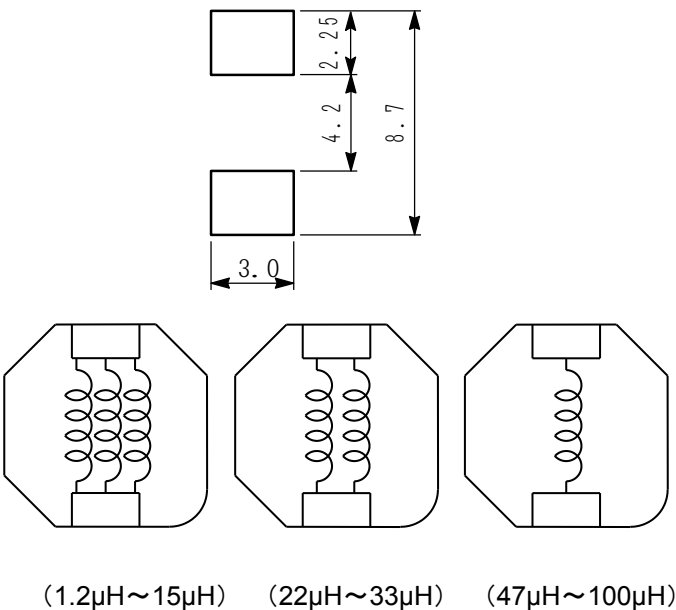
Applications

- 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] $\times 1$	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) $\times 2$		Temperature Rise Current (A) $\times 3$
				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.

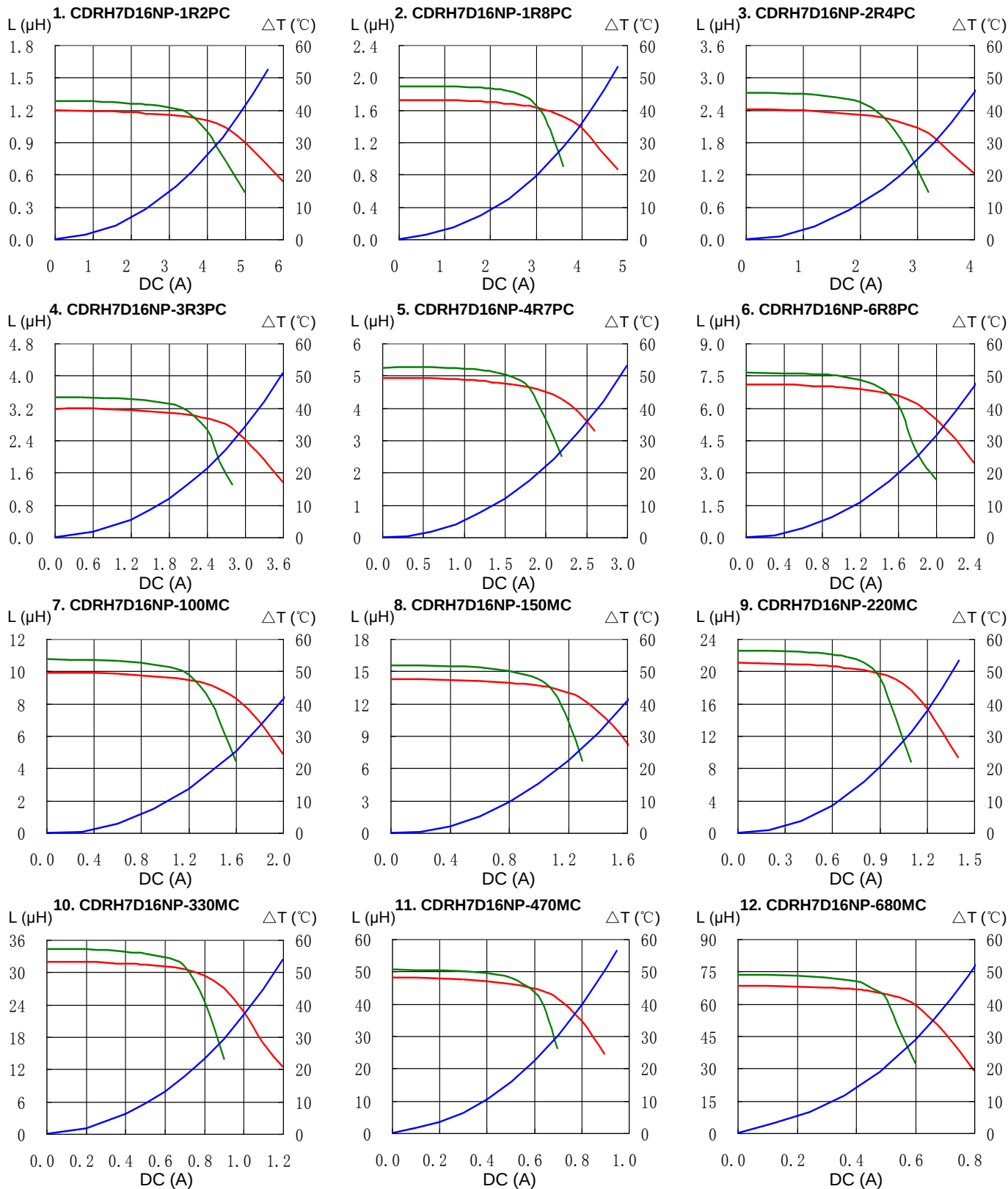
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

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Saturation Current & Temperature Rise Graph

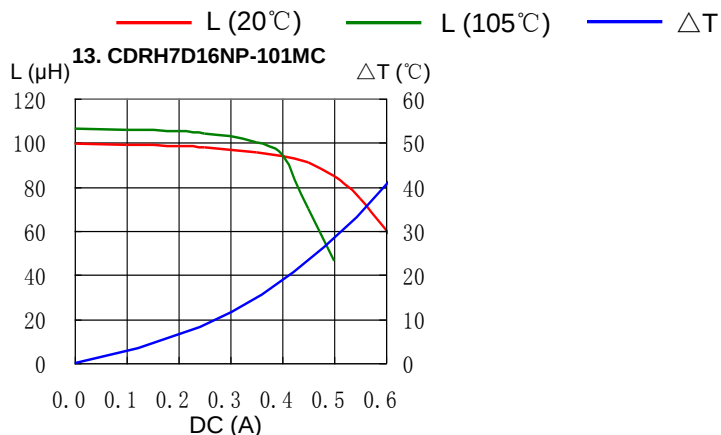
— L (20°C) — L (105°C) — ΔT



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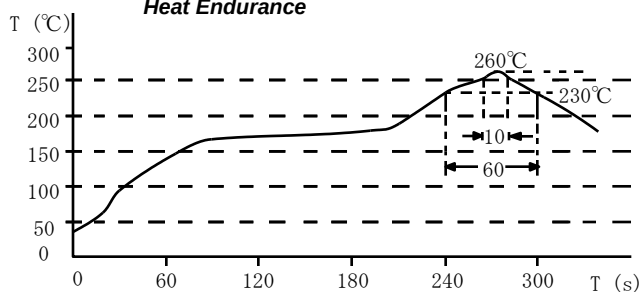


Saturation Current & Temperature Rise Graph

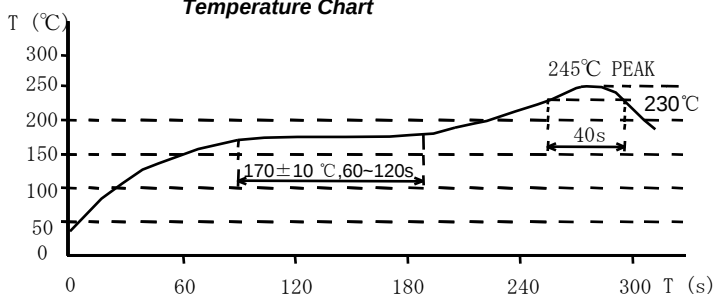


Solder Reflow Condition

Heat Endurance



Temperature Chart



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