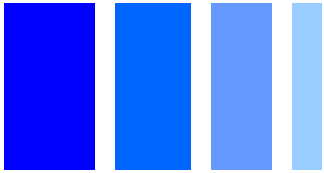


SMD Power Inductor

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.

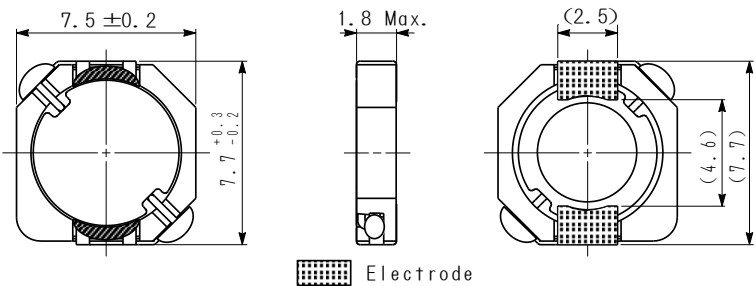
Packaging

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

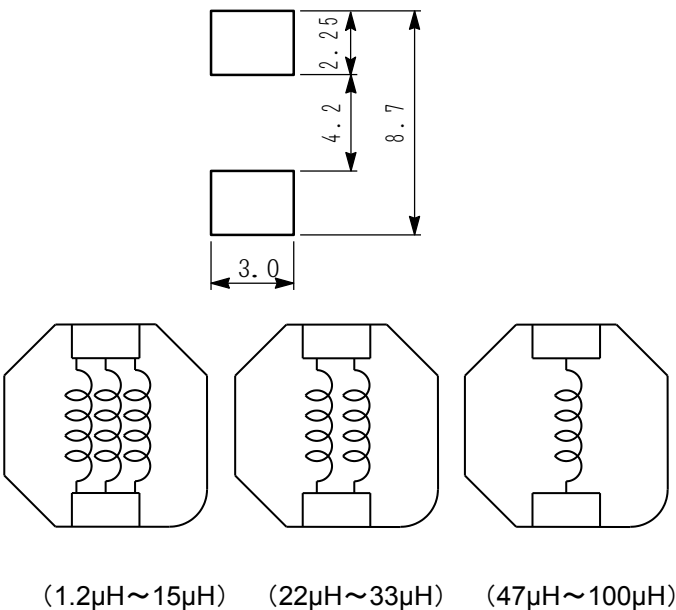
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor

CDRH7D16



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.

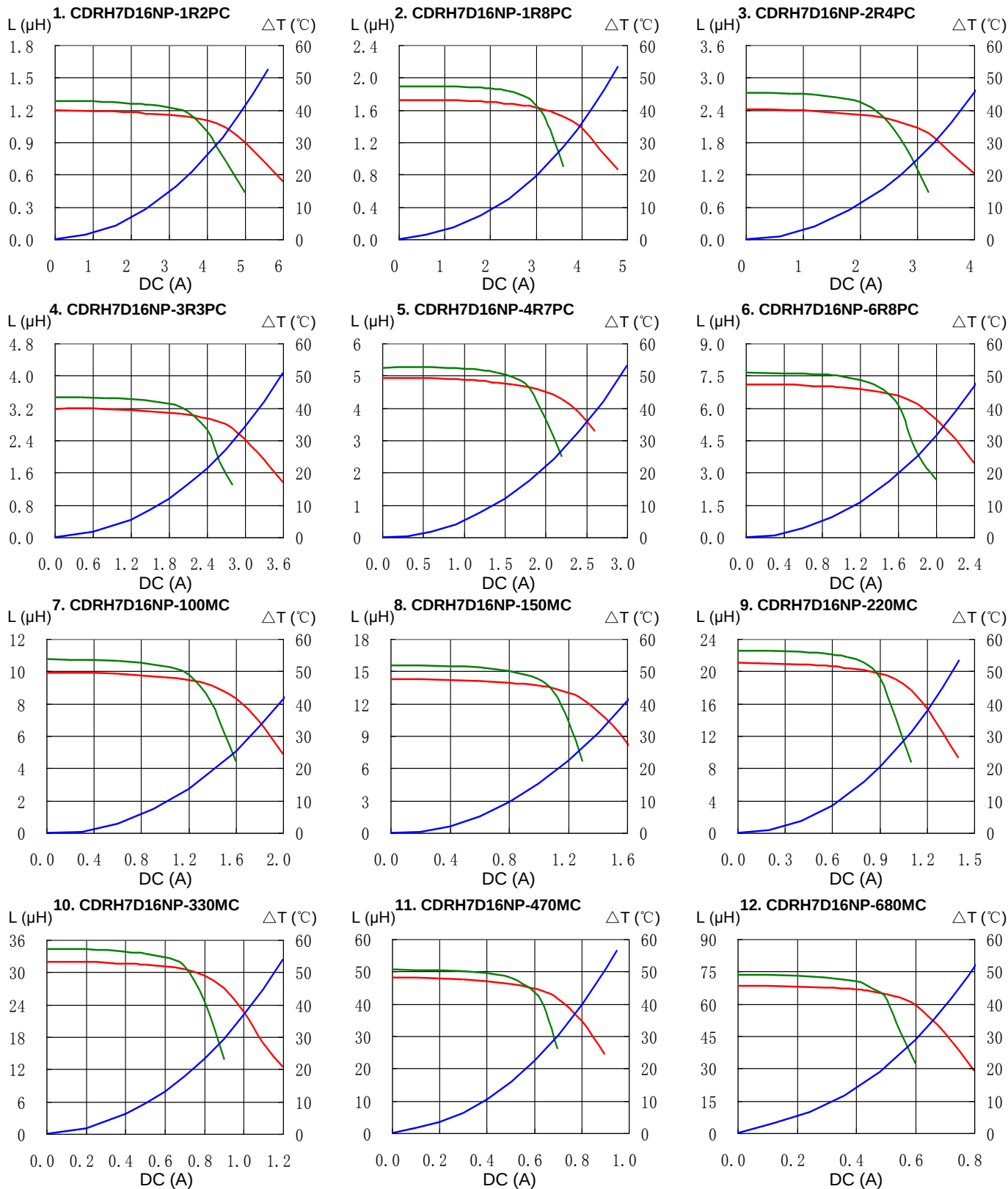
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

SMD Power Inductor CDRH7D16



Saturation Current & Temperature Rise Graph

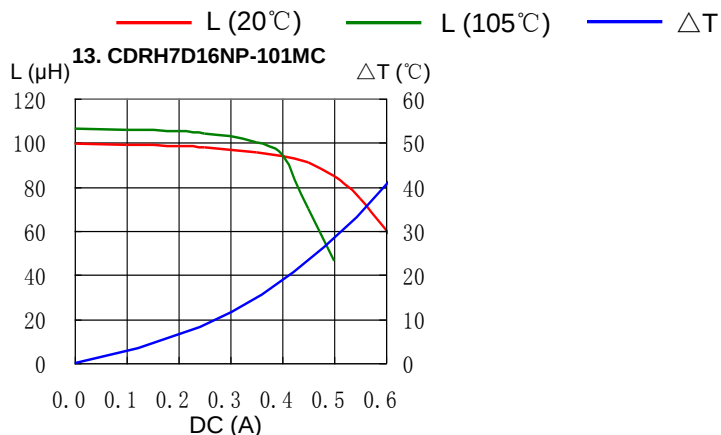
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH7D16

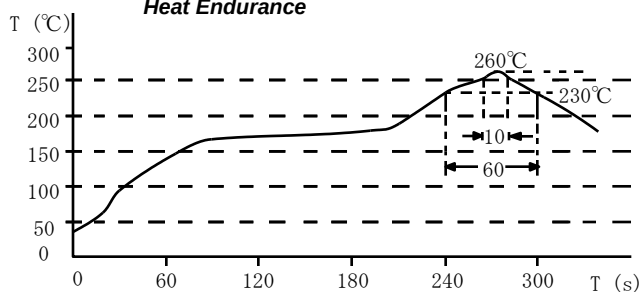


Saturation Current & Temperature Rise Graph

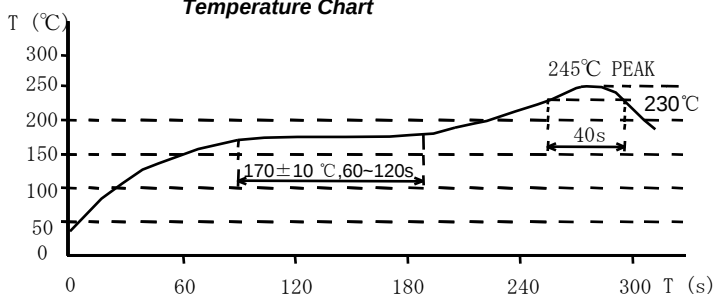


Solder Reflow Condition

Heat Endurance



Temperature Chart



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Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com