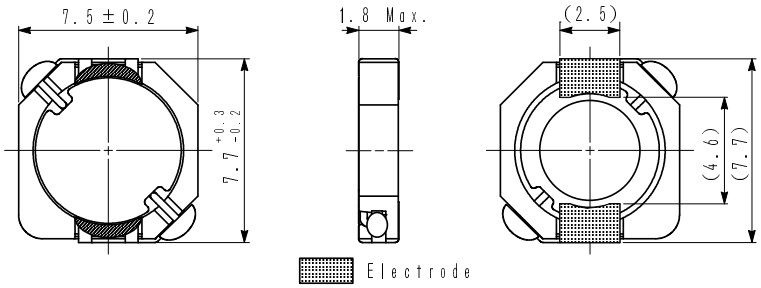
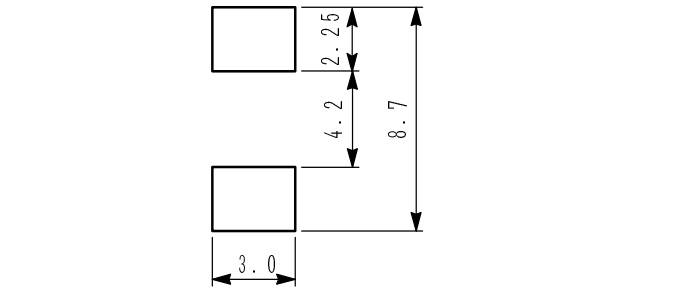
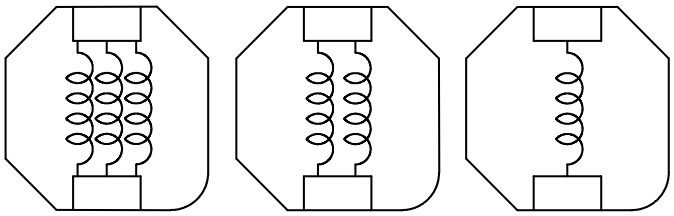
SMD Power Inductor
CDRH7D16

Dimension - [mm]



Land pattern and Schematics - [mm]





（1.2μH～15μH） （22μH～33μH） （47μH～100μH）

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.

Revised: 7-Jan-14

Electrical Characteristics

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

※1. Inductance measuring conditions at 100kHz.

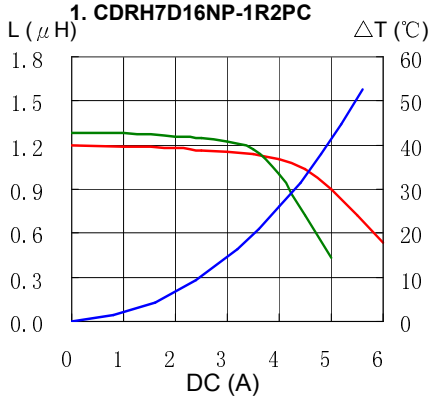
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The DC current at which the temperature rise is △t=40℃.(Ta=20℃)

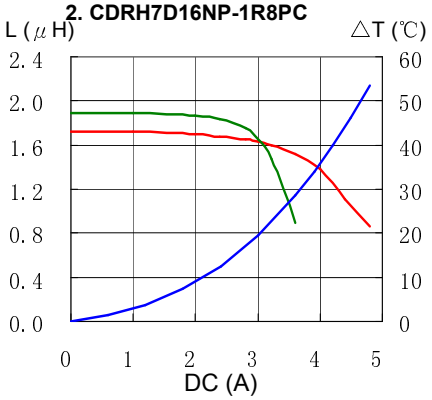
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

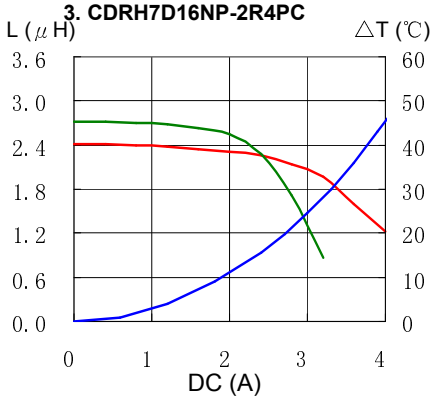
1. CDRH7D16NP-1R2PC



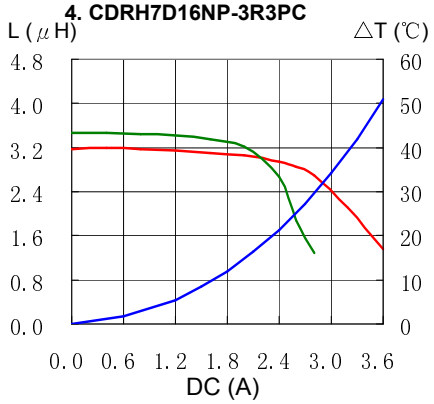
2. CDRH7D16NP-1R8PC



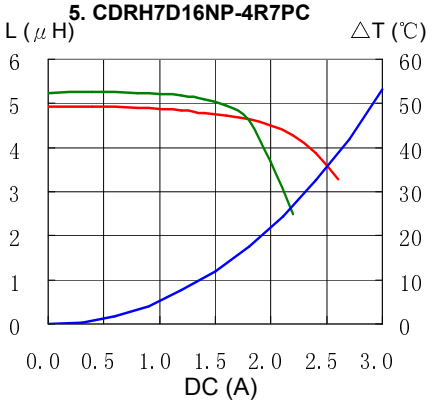
3. CDRH7D16NP-2R4PC



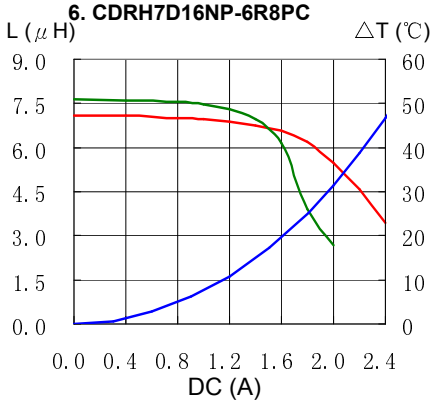
4. CDRH7D16NP-3R3PC



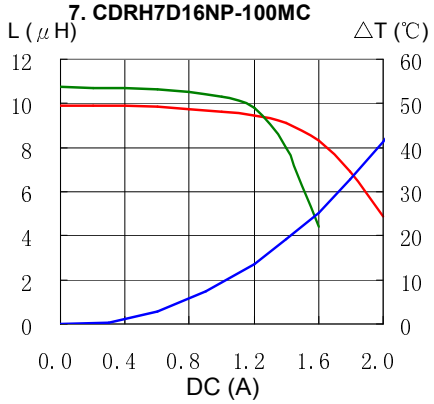
5. CDRH7D16NP-4R7PC



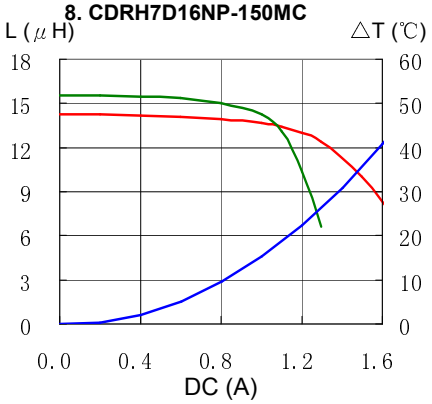
6. CDRH7D16NP-6R8PC



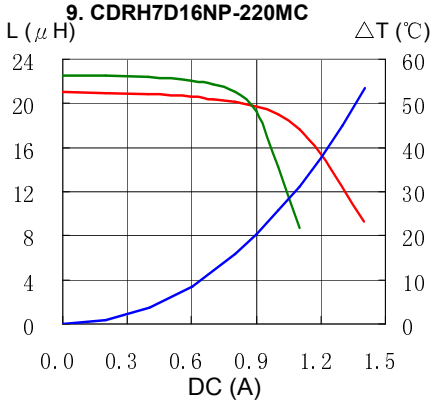
7. CDRH7D16NP-100MC



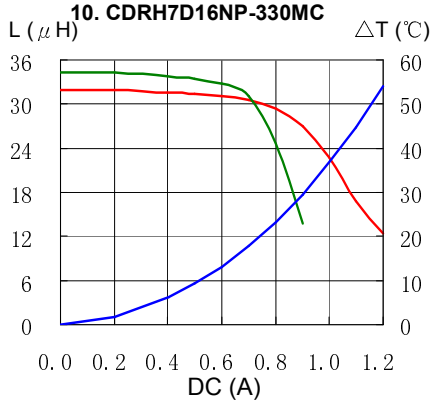
8. CDRH7D16NP-150MC



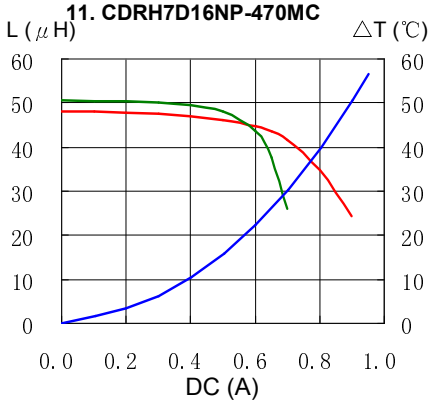
9. CDRH7D16NP-220MC



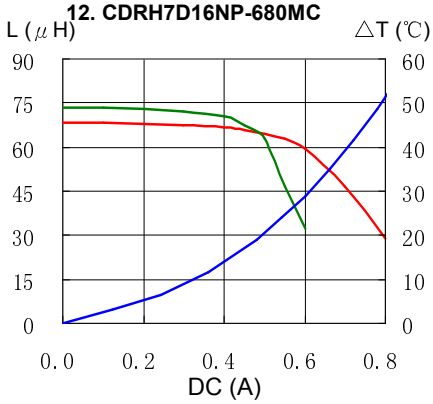
10. CDRH7D16NP-330MC



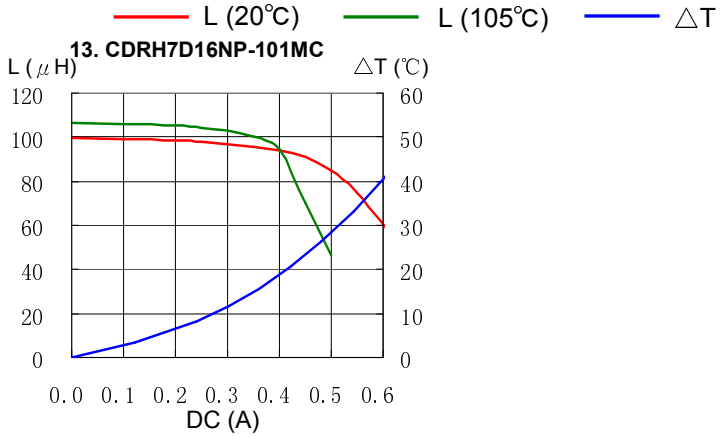
11. CDRH7D16NP-470MC



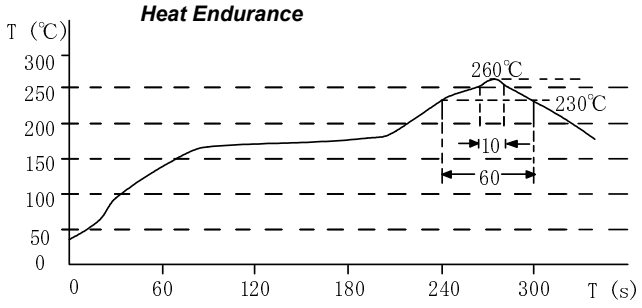
12. CDRH7D16NP-680MC

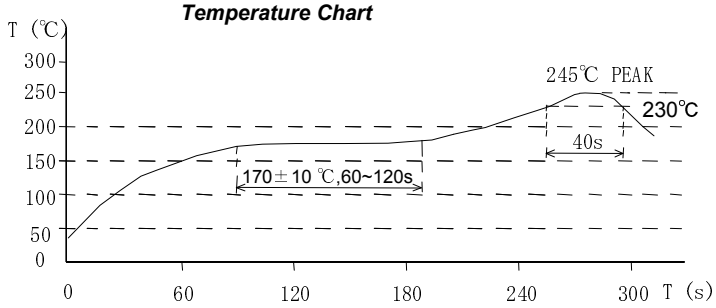


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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

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

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

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

Saitama(Japan)
Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

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

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

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

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

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

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