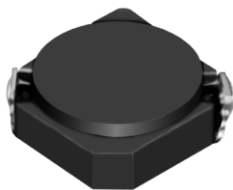
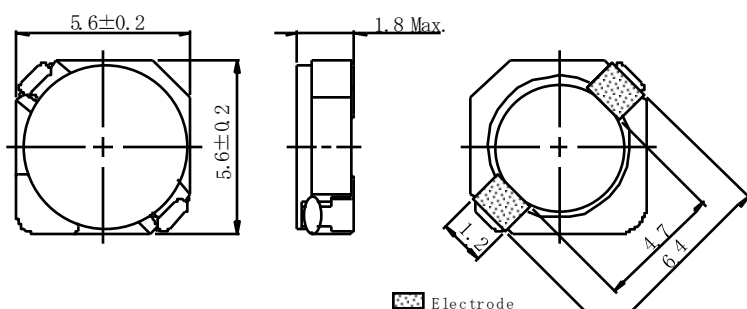


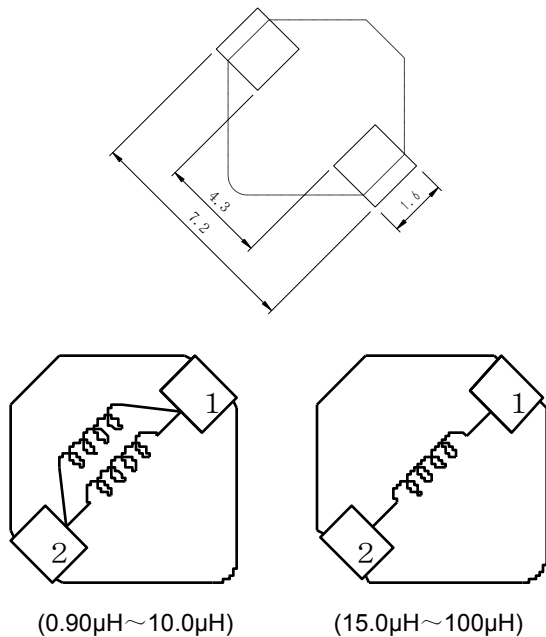
SMD Power Inductor CDRH5D16



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction.
- Magnetically shielded.
- $L \times W \times H$: $5.8 \times 5.8 \times 1.8 \text{ mm Max.}$
- Product weight: 1.88 mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +105^\circ\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

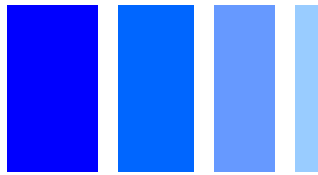
- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

Applications

- Ideally used in Mobile phone, Notebook PC, MP3, PDA, HDD, DSC/DVC, Game machine, etc. as DC-DC converter inductors.

SMD Power Inductor

CDRH5D16



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) [Max.] (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH5D16NP-0R9NC	0R9	$0.90 \pm 25\%$	14.6m(11.7m)	4.70	3.90	4.70
CDRH5D16NP-2R2NC	2R2	$2.2 \pm 25\%$	35.9m(28.7m)	3.00	2.45	2.90
CDRH5D16NP-3R3NC	3R3	$3.3 \pm 25\%$	44.5m(35.6m)	2.60	2.15	2.40
CDRH5D16NP-4R7NC	4R7	$4.7 \pm 25\%$	64.1m(51.3m)	2.15	1.75	2.10
CDRH5D16NP-6R8NC	6R8	$6.8 \pm 25\%$	84.3m(67.4m)	1.80	1.45	1.70
CDRH5D16NP-8R2NC	8R2	$8.2 \pm 25\%$	0.11(89.7m)	1.55	1.25	1.50
CDRH5D16NP-100MC	100	$10.0 \pm 20\%$	0.14(0.11)	1.45	1.15	1.30
CDRH5D16NP-150MC	150	$15.0 \pm 20\%$	0.20(0.16)	1.15	0.95	1.10
CDRH5D16NP-220MC	220	$22.0 \pm 20\%$	0.32(0.25)	0.95	0.80	0.80
CDRH5D16NP-330MC	330	$33.0 \pm 20\%$	0.44(0.35)	0.80	0.65	0.70
CDRH5D16NP-470MC	470	$47.0 \pm 20\%$	0.58(0.46)	0.68	0.52	0.60
CDRH5D16NP-680MC	680	$68.0 \pm 20\%$	0.86(0.69)	0.55	0.44	0.50
CDRH5D16NP-820MC	820	$82.0 \pm 20\%$	1.06(0.85)	0.50	0.40	0.42
CDRH5D16NP-101MC	101	$100 \pm 20\%$	1.41(1.13)	0.45	0.35	0.35

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

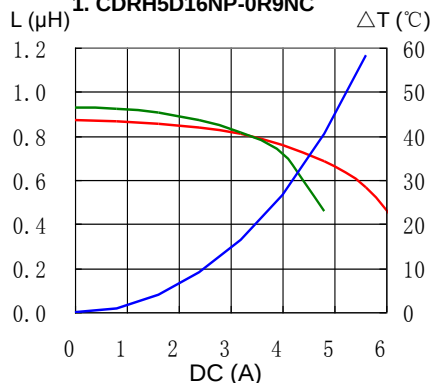
SMD Power Inductor CDRH5D16



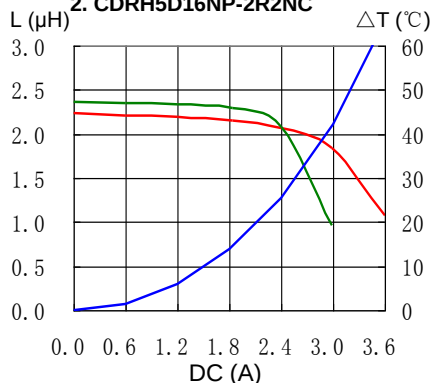
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

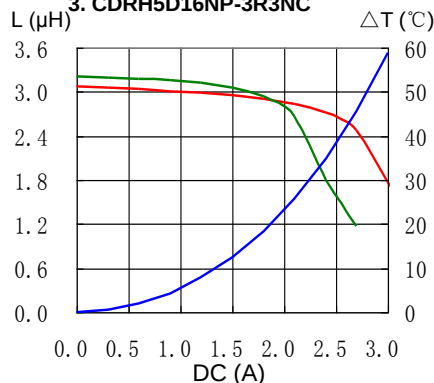
1. CDRH5D16NP-0R9NC



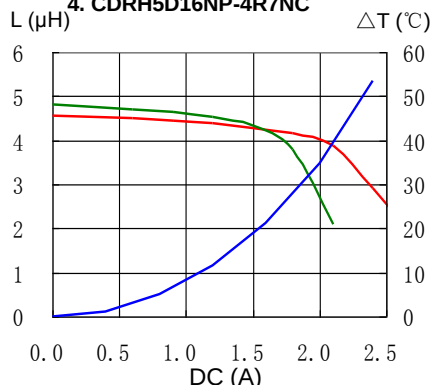
2. CDRH5D16NP-2R2NC



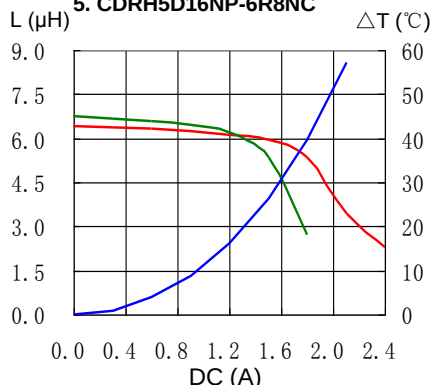
3. CDRH5D16NP-3R3NC



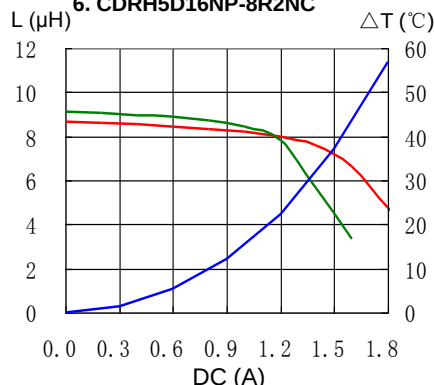
4. CDRH5D16NP-4R7NC



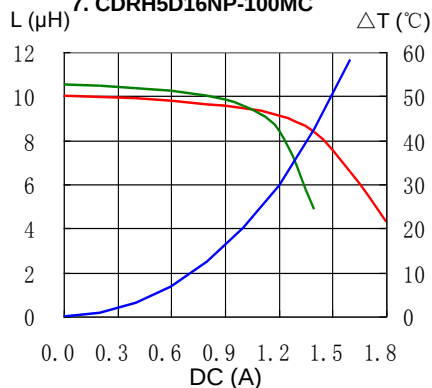
5. CDRH5D16NP-6R8NC



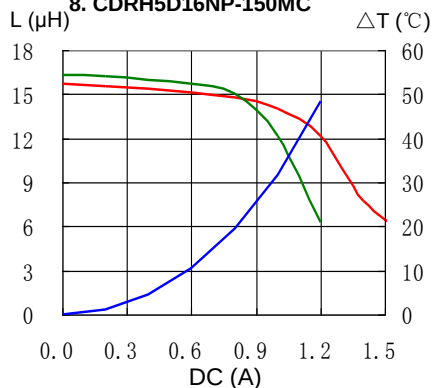
6. CDRH5D16NP-8R2NC



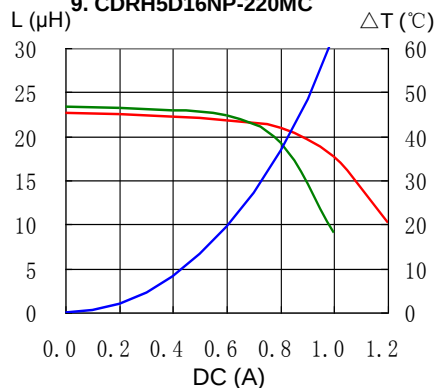
7. CDRH5D16NP-100MC



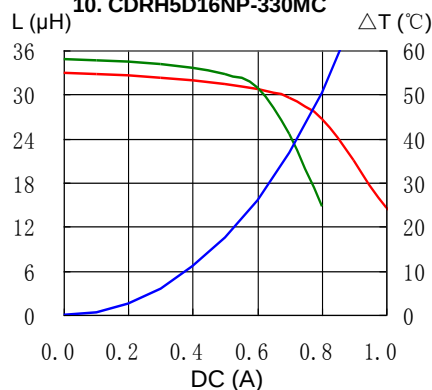
8. CDRH5D16NP-150MC



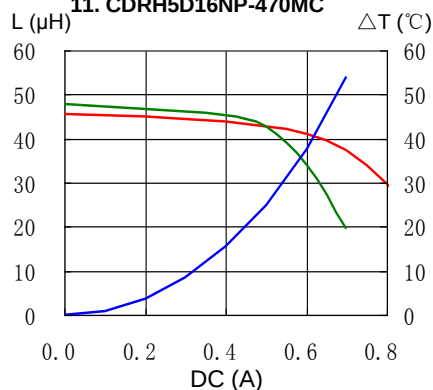
9. CDRH5D16NP-220MC



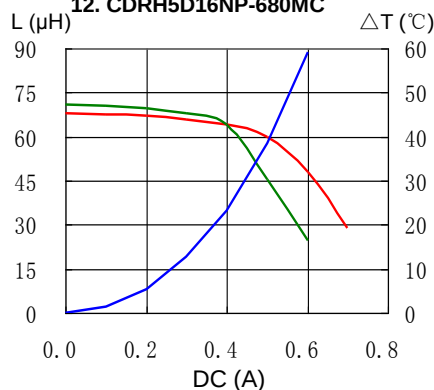
10. CDRH5D16NP-330MC



11. CDRH5D16NP-470MC



12. CDRH5D16NP-680MC

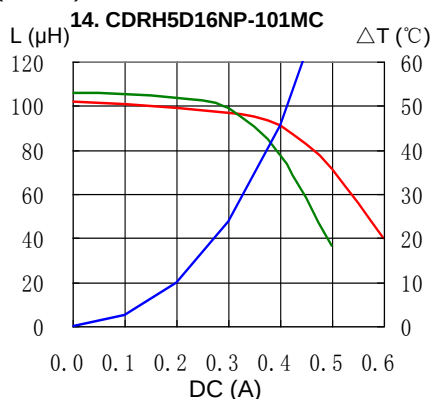
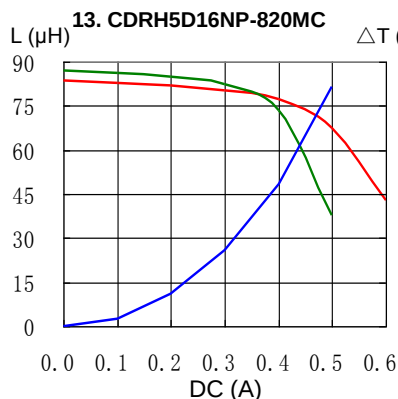


SMD Power Inductor CDRH5D16



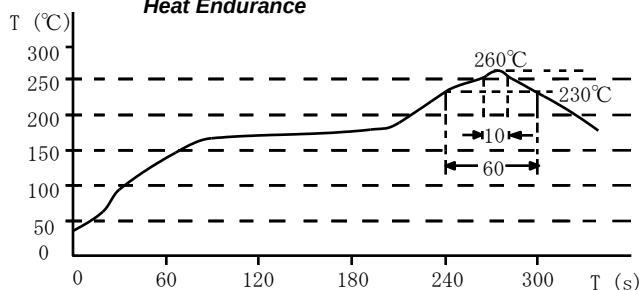
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

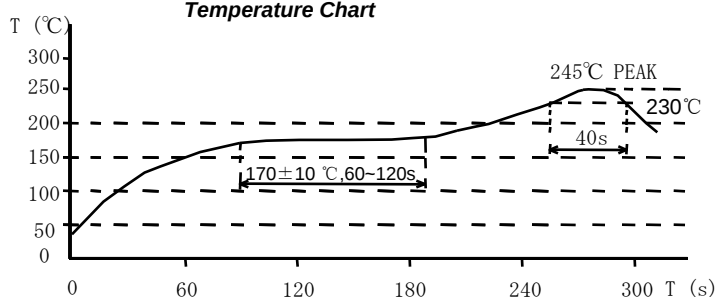


Solder Reflow Condition

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