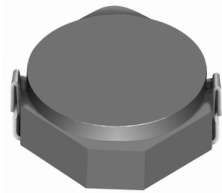


SMD Power Inductor CDRH4D14/LD



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.8 × 4.8 × 1.5 mm Max.
- Product weight: 98mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

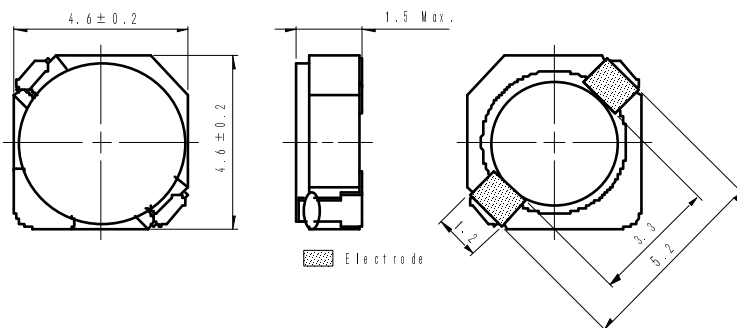
Packaging

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

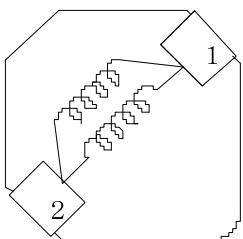
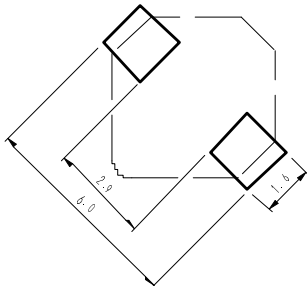
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, etc as DC-DC converter inductors.

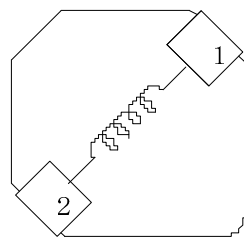
Dimension - [mm]



Land pattern and Schematics - [mm]



(2.2 μH ~ 10 μH)



(15 μH ~ 220 μH)

SMD Power Inductor

CDRH4D14/LD



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D14LDNP-2R2NC	2R2	2.2 \pm 30%	40m(32m)	1.05	2.60
CDRH4D14LDNP-3R0NC	3R0	3.0 \pm 30%	50m(40m)	0.98	2.30
CDRH4D14LDNP-4R7NC	4R7	4.7 \pm 30%	66m(53m)	0.78	1.90
CDRH4D14LDNP-6R8NC	6R8	6.8 \pm 30%	96m(77m)	0.64	1.55
CDRH4D14LDNP-100MC	100	10 \pm 20%	135m(110m)	0.52	1.08
CDRH4D14LDNP-150MC	150	15 \pm 20%	210m(170m)	0.42	0.88
CDRH4D14LDNP-220MC	220	22 \pm 20%	300m(240m)	0.35	0.73
CDRH4D14LDNP-330MC	330	33 \pm 20%	420m(340m)	0.28	0.56
CDRH4D14LDNP-470MC	470	47 \pm 20%	570m(460m)	0.24	0.48
CDRH4D14LDNP-680MC	680	68 \pm 20%	870m(700m)	0.21	0.41
CDRH4D14LDNP-101MC	101	100 \pm 20%	1.35(1.10)	0.16	0.32
CDRH4D14LDNP-151MC	151	150 \pm 20%	2.05(1.65)	0.14	0.23
CDRH4D14LDNP-221MC	221	220 \pm 20%	2.65(2.15)	0.11	0.20

※1. Inductance measuring condition: at 100kHz.

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

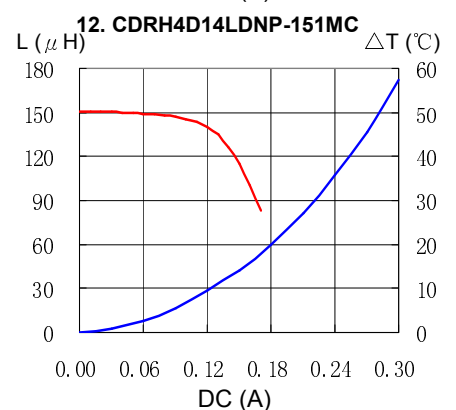
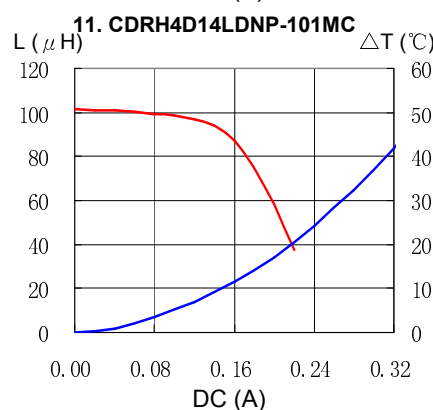
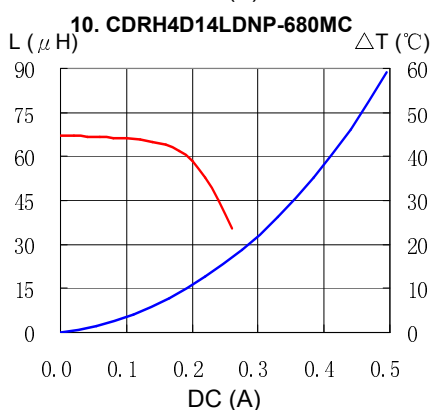
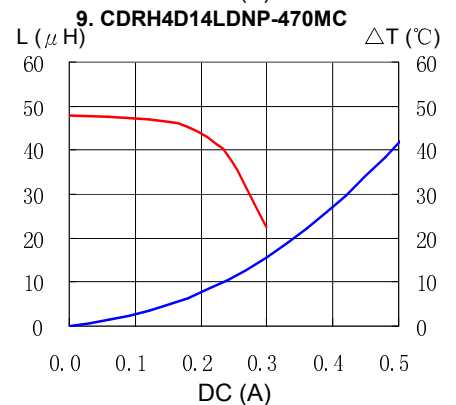
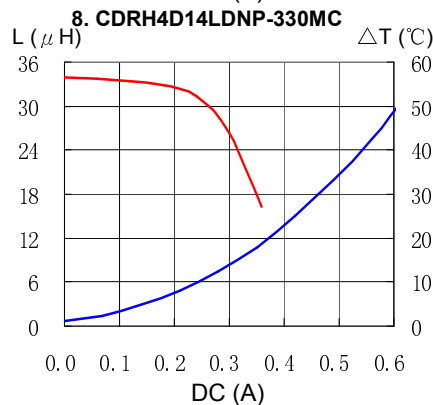
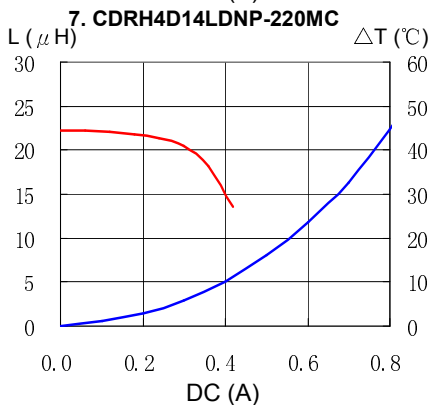
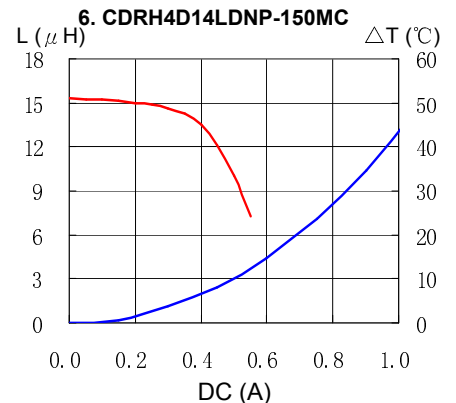
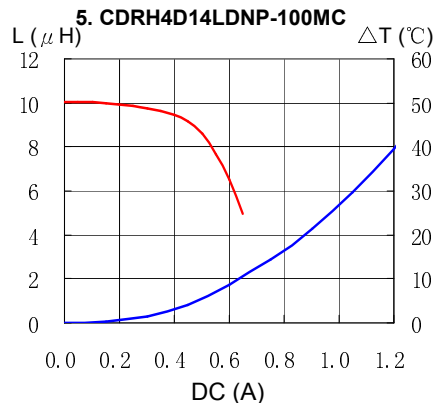
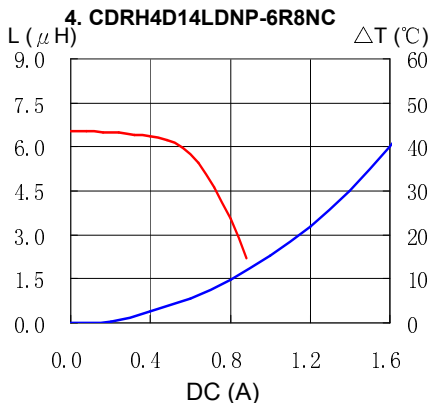
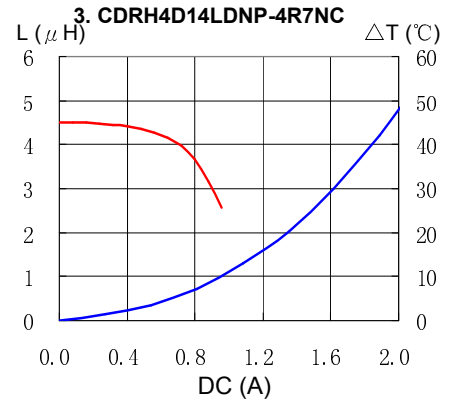
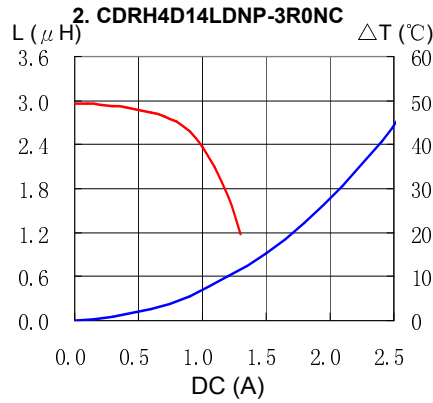
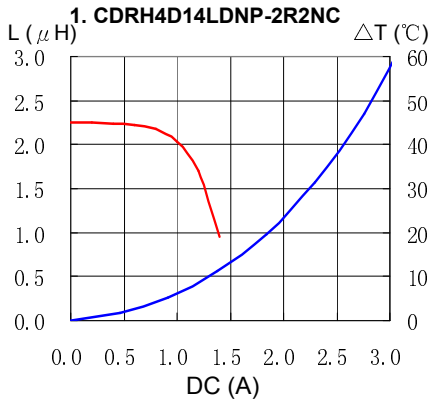
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH4D14/LD



Saturation Current & Temperature Rise Graph

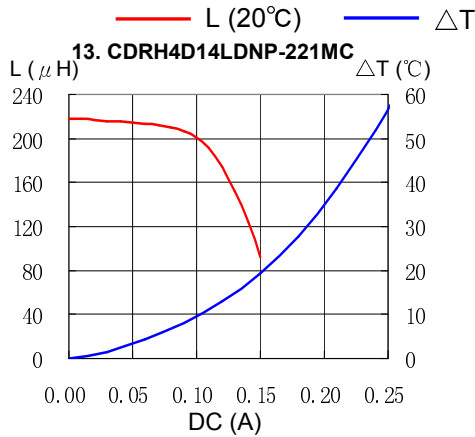
— L (20°C) — ΔT



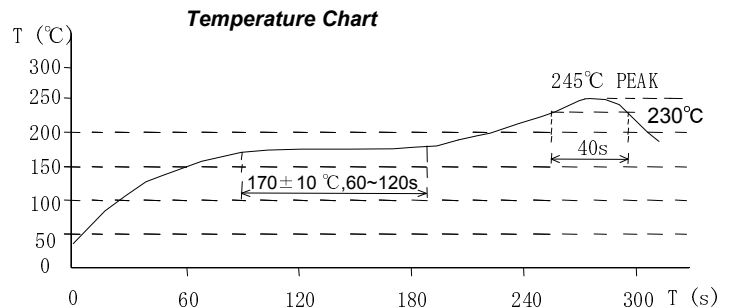
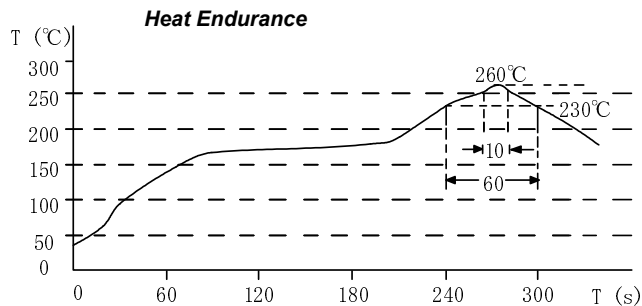
SMD Power Inductor CDRH4D14/LD



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

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

Oberzell

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