



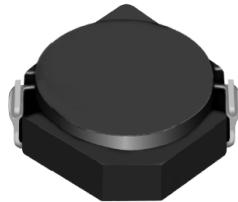
THE DATASHEET OF CDRH3D14/LDNP-220NC



SMD Power Inductor CDRH3D14/LD



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(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.

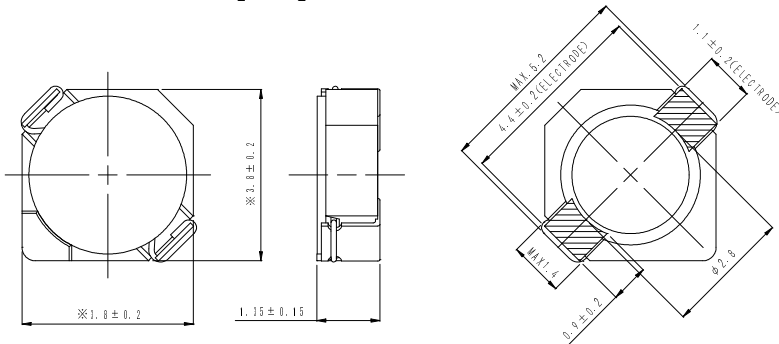
Packaging

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

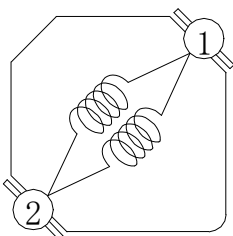
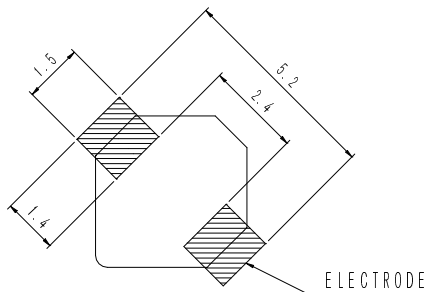
Applications

- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

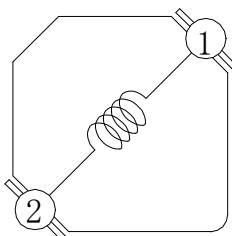
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.2 μ H ~ 3.0 μ H)



(3.9 μ H ~ 47 μ H)

SMD Power Inductor CDRH3D14/LD



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH3D14/LDNP-1R2NC	A	1.2 \pm 25%	38 (30)	1.50	1.28	2.70
CDRH3D14/LDNP-1R5NC	B	1.5 \pm 25%	48 (38)	1.35	1.05	2.40
CDRH3D14/LDNP-2R0NC	C	2.0 \pm 25%	55 (44)	1.15	0.95	2.20
CDRH3D14/LDNP-2R5NC	D	2.5 \pm 25%	68 (54)	1.05	0.80	1.90
CDRH3D14/LDNP-3R0NC	E	3.0 \pm 25%	77 (62)	0.95	0.75	1.60
CDRH3D14/LDNP-3R9NC	F	3.9 \pm 25%	96 (77)	0.80	0.65	1.50
CDRH3D14/LDNP-4R5NC	G	4.5 \pm 25%	105 (84)	0.75	0.60	1.45
CDRH3D14/LDNP-5R6NC	H	5.6 \pm 25%	159 (127)	0.70	0.55	1.10
CDRH3D14/LDNP-6R8NC	I	6.8 \pm 25%	173 (138)	0.60	0.50	1.05
CDRH3D14/LDNP-100NC	K	10 \pm 25%	220 (176)	0.50	0.38	1.00
CDRH3D14/LDNP-120NC	L	12 \pm 25%	270 (216)	0.45	0.35	0.80
CDRH3D14/LDNP-150NC	M	15 \pm 25%	302 (242)	0.40	0.30	0.75
CDRH3D14/LDNP-220NC	O	22 \pm 25%	447 (358)	0.35	0.27	0.60
CDRH3D14/LDNP-330NC	Q	33 \pm 25%	848 (679)	0.30	0.25	0.40
CDRH3D14/LDNP-470NC	R	47 \pm 25%	1078 (863)	0.25	0.20	0.35

※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.

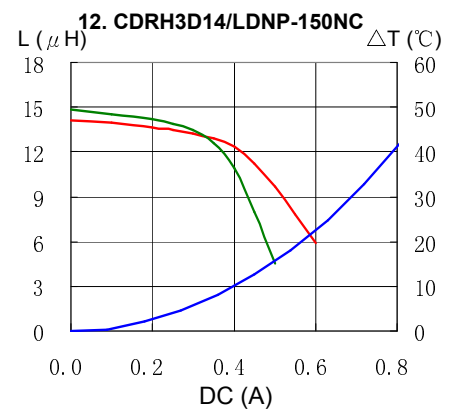
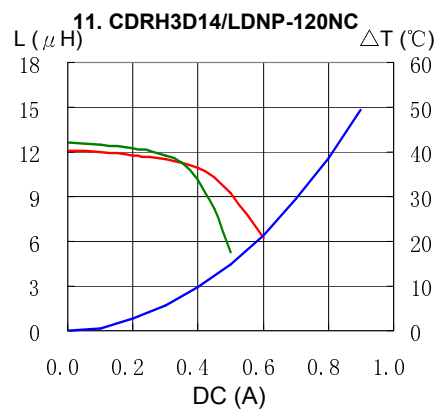
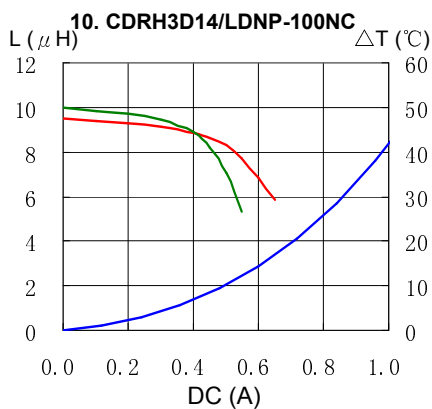
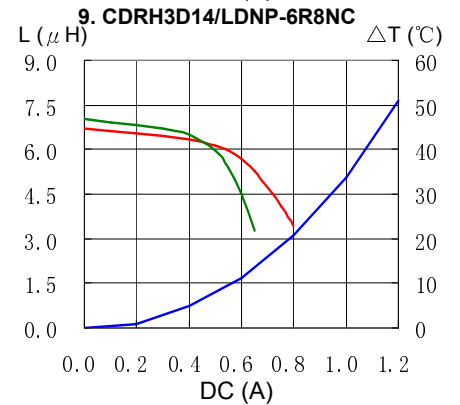
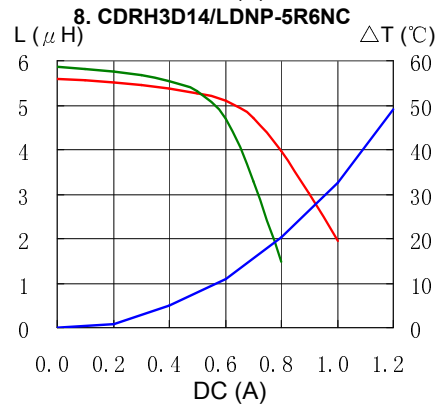
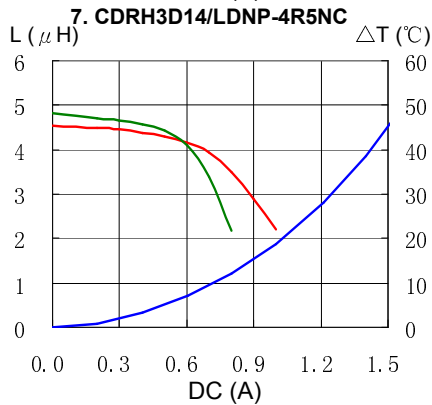
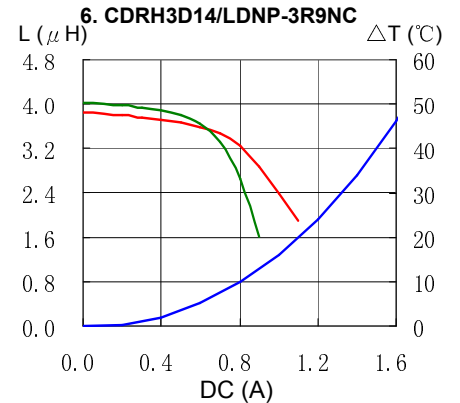
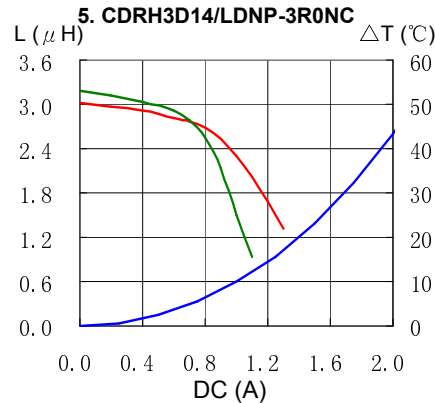
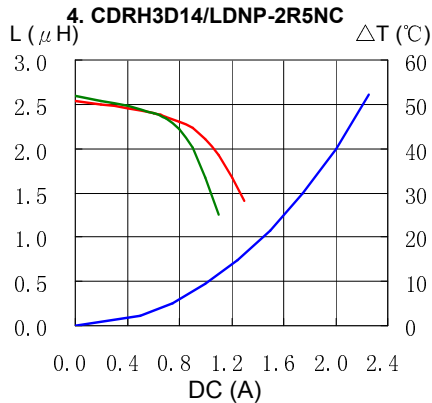
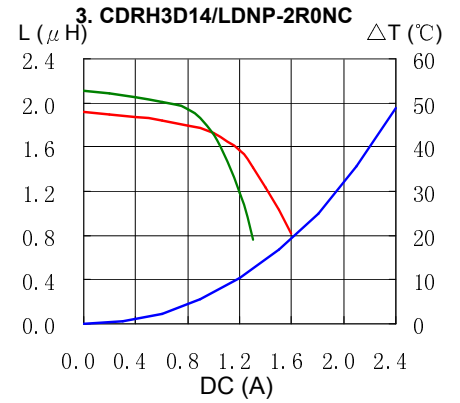
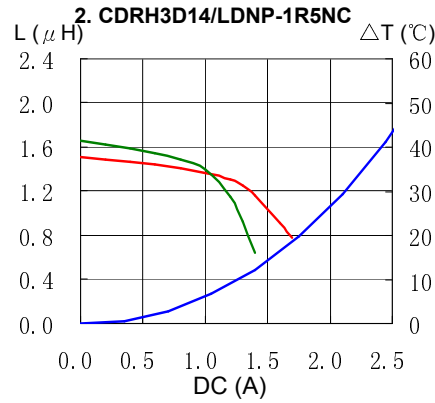
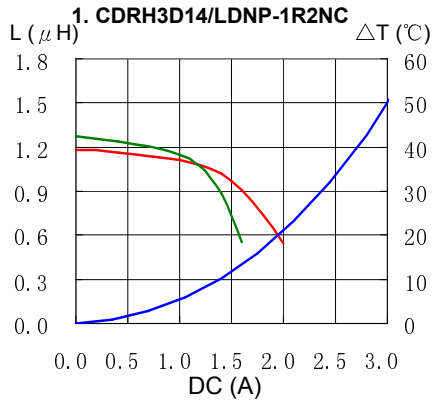
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH3D14/LD



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

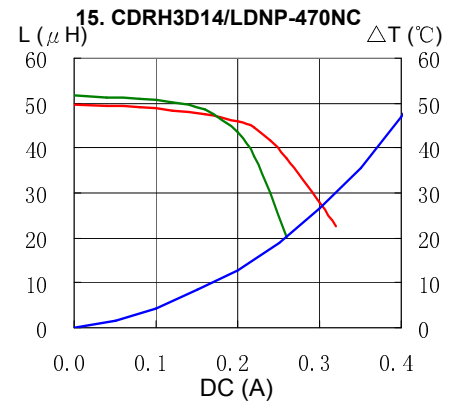
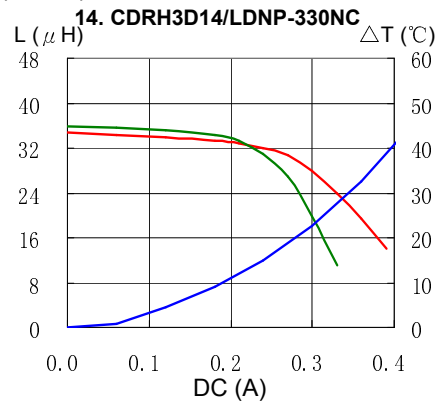
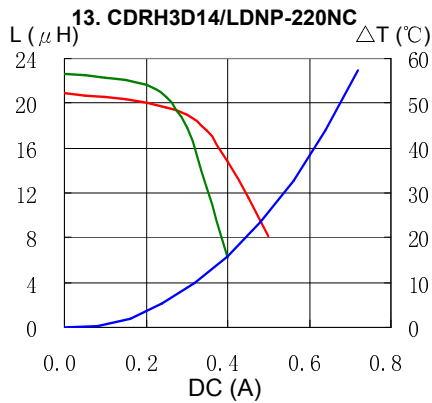


SMD Power Inductor CDRH3D14/LD

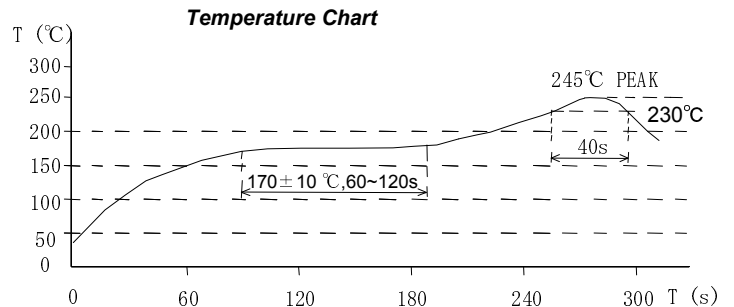
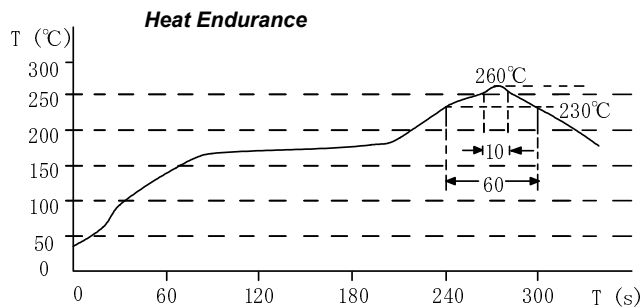


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View CDRH3D14/LDNP-220NC on WIN SOURCE](#)
- ⊖ [Sumida America Components Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management