

SMD Power Inductor CDRH4D28C/LD



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 3.0 mm Max.
- Product weight: 0.21g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

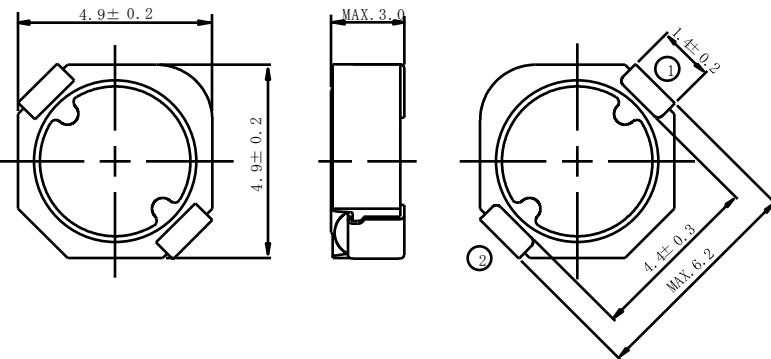
Packaging

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

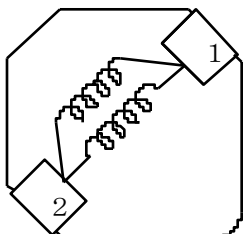
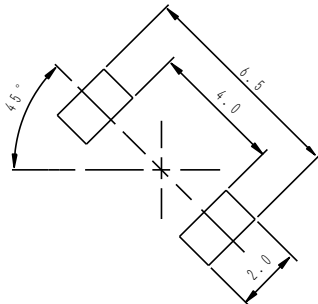
Applications

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

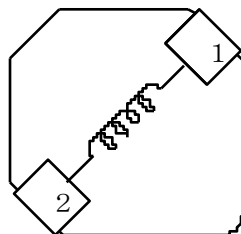
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.0µH ~ 6.8µH)



(10µH ~ 100µH)



Electrical Characteristics

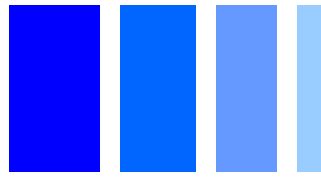
Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R (m Ω) Max. (Typ.) (20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D28CLDNP-1R0PC	A	1.0 \pm 25%	17.5(14)	3.0	4.9
CDRH4D28CLDNP-2R2PC	B	2.2 \pm 25%	23.8(19)	2.0	3.6
CDRH4D28CLDNP-3R3PC	C	3.3 \pm 25%	28.9(23)	1.6	3.2
CDRH4D28CLDNP-4R7PC	D	4.7 \pm 25%	36.3(29)	1.5	2.9
CDRH4D28CLDNP-6R8PC	E	6.8 \pm 25%	48.8(39)	1.2	2.4
CDRH4D28CLDNP-100PC	F	10 \pm 25%	67.5(54)	0.90	1.8
CDRH4D28CLDNP-150PC	G	15 \pm 25%	93.4(75)	0.81	1.6
CDRH4D28CLDNP-220PC	H	22 \pm 25%	140(112)	0.65	1.25
CDRH4D28CLDNP-330PC	I	33 \pm 25%	223(179)	0.55	0.92
CDRH4D28CLDNP-470PC	J	47 \pm 25%	272(218)	0.43	0.86
CDRH4D28CLDNP-680PC	K	68 \pm 25%	366(293)	0.36	0.72
CDRH4D28CLDNP-101PC	L	100 \pm 25%	520(416)	0.30	0.61

※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.

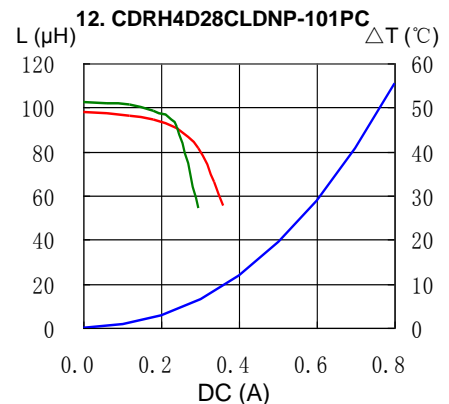
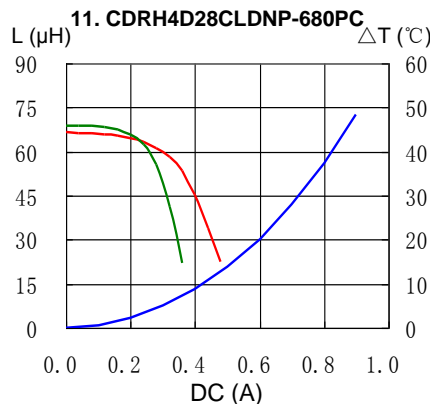
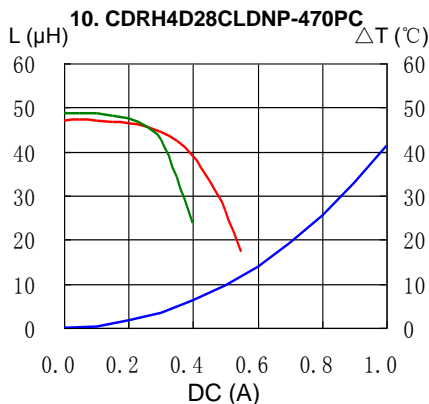
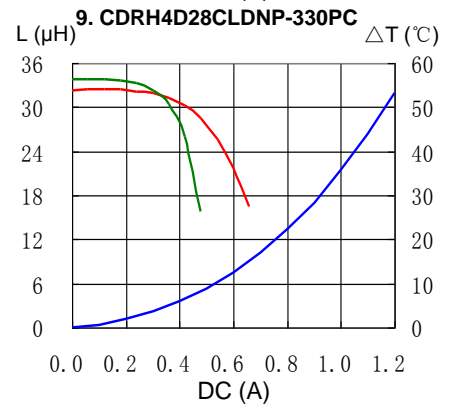
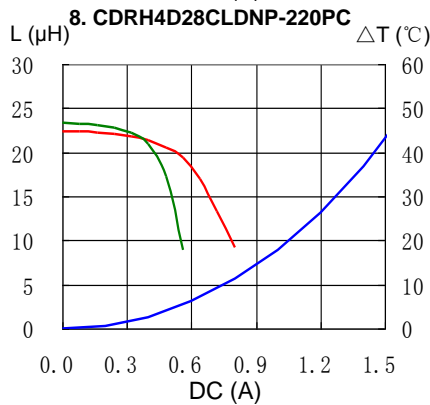
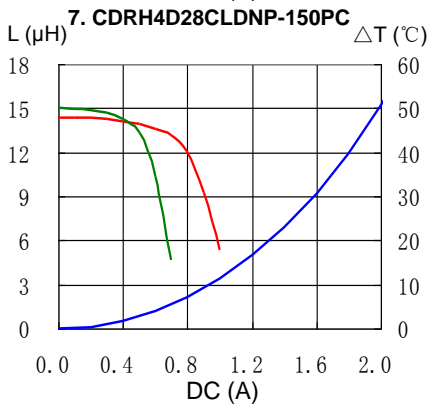
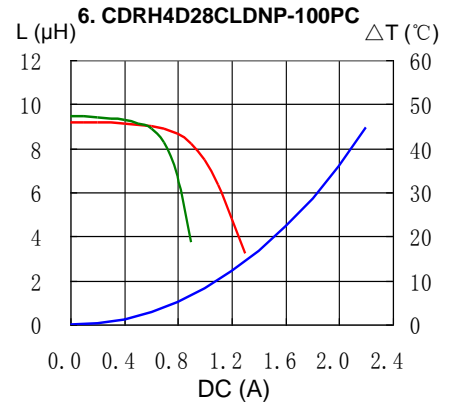
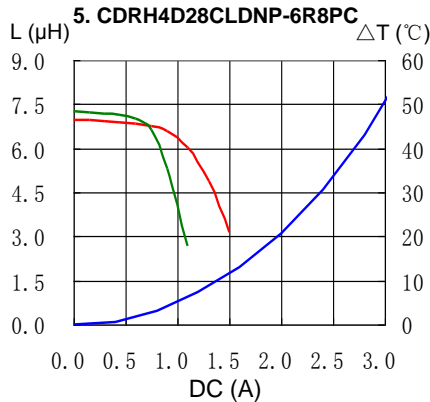
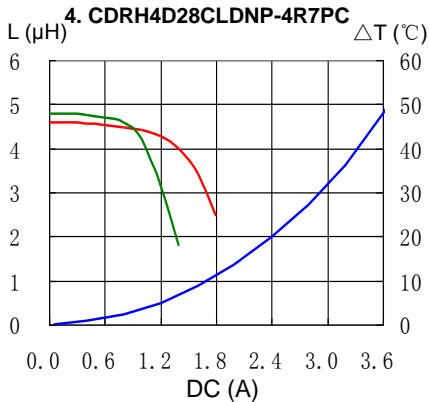
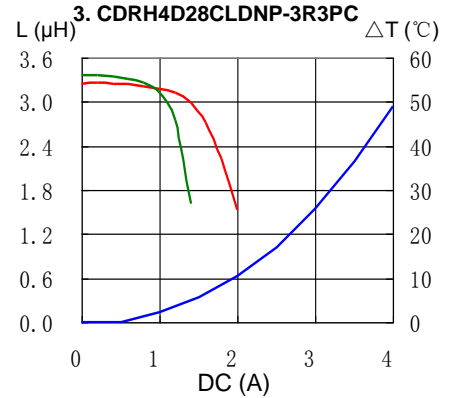
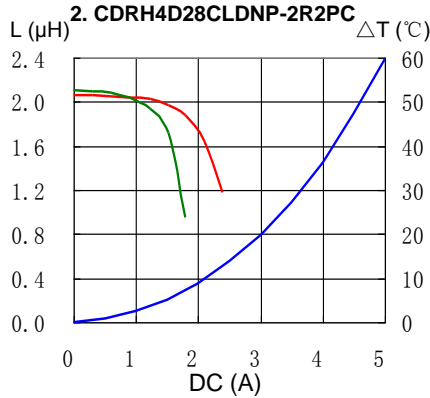
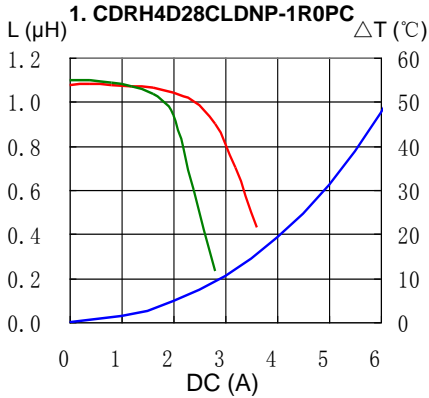
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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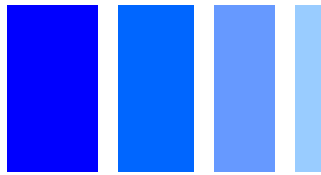


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

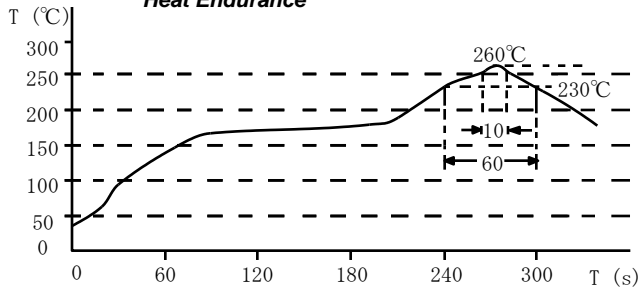


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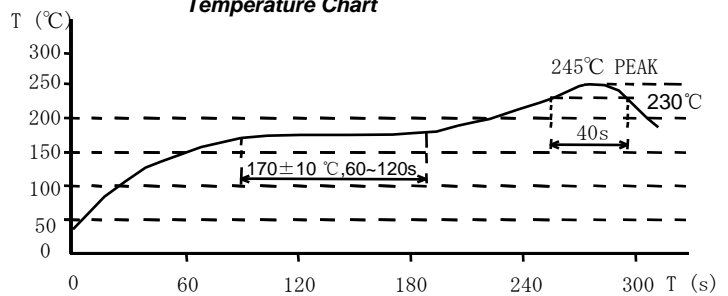


Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Saitama(Japan)

Tel.+81-48-691-7300
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Tel.+1-847-545-6700
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Shanghai

Tel.+86-21-5836-3299
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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
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