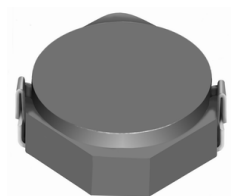


SMD Power Inductor CDRH4D14/LD



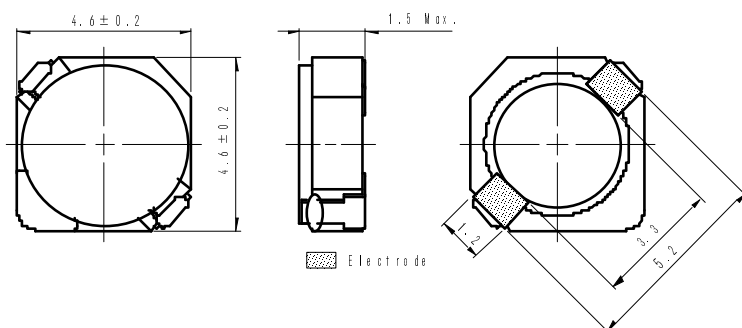
Halogen
Free



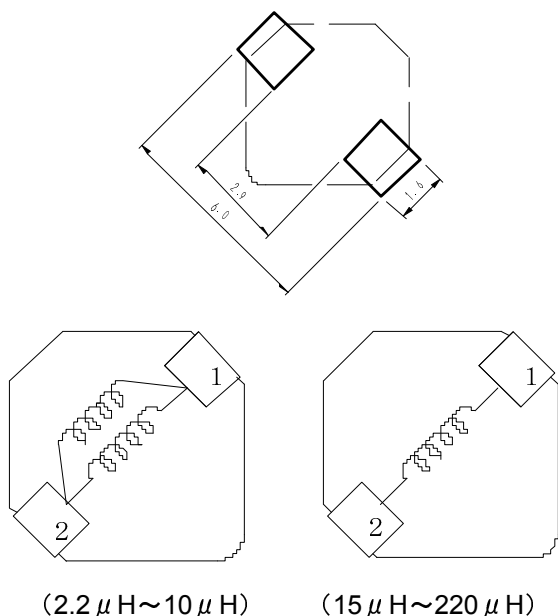
Description

- 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.

Dimension - [mm]



Land pattern and Schematics - [mm]



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.

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 it's nominal value.

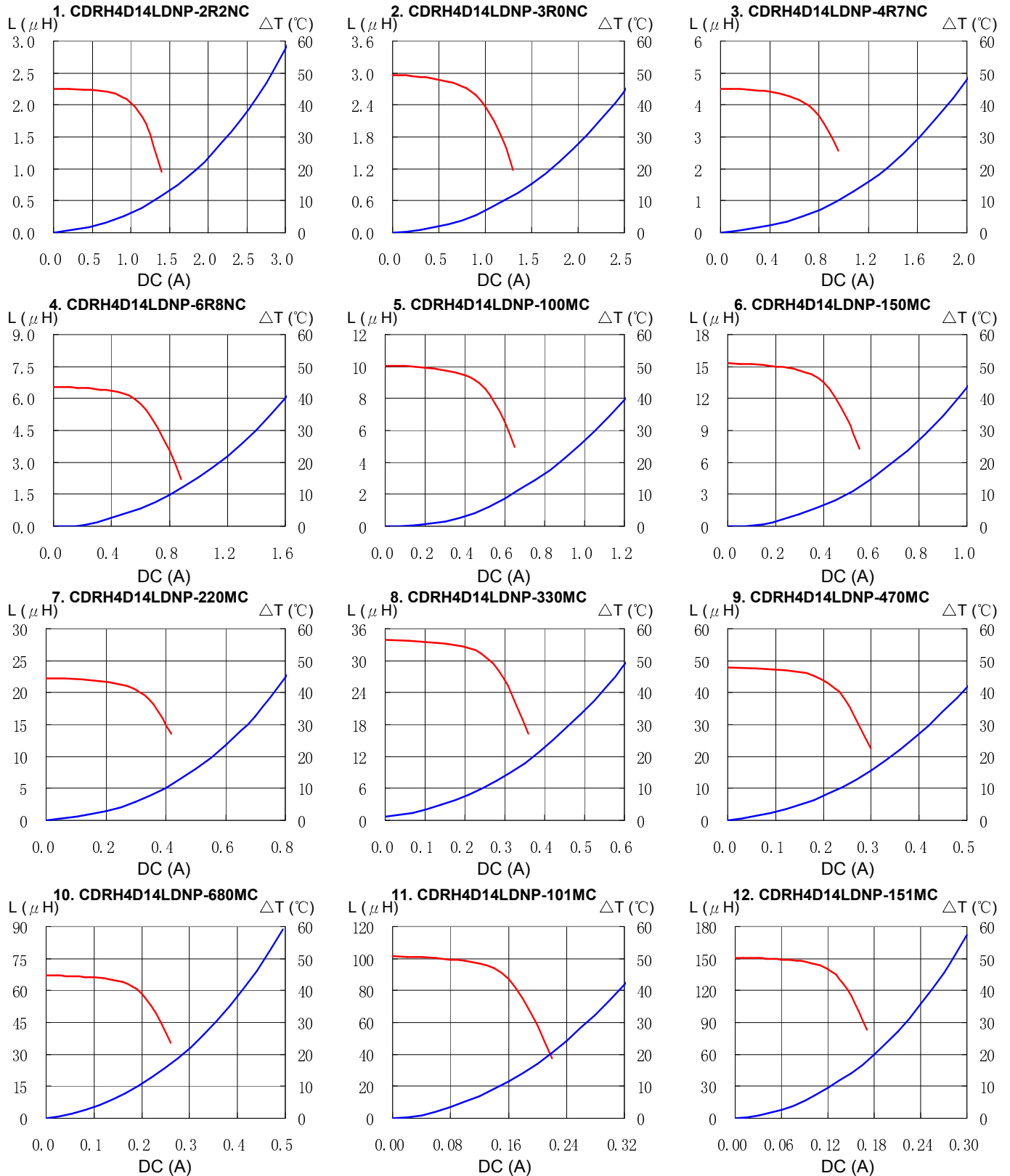
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH4D14/LD



Saturation Current & Temperature Rise Graph

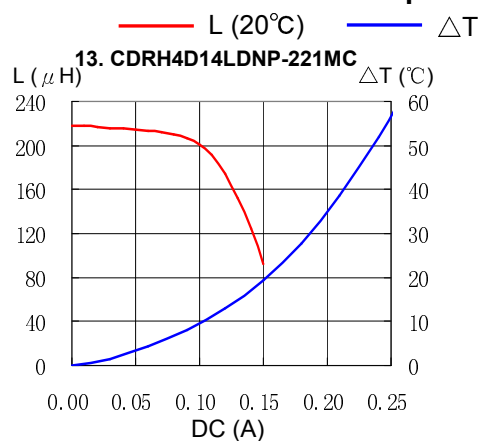
— L (20°C) — ΔT



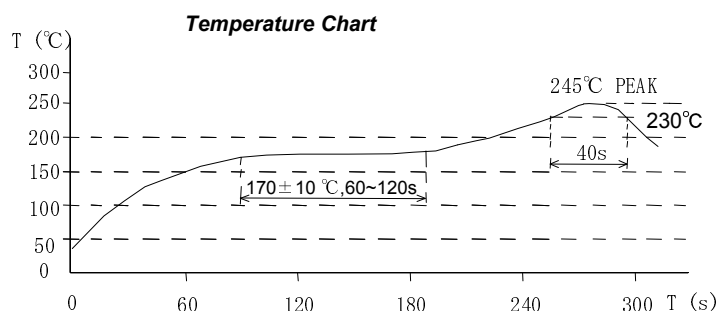
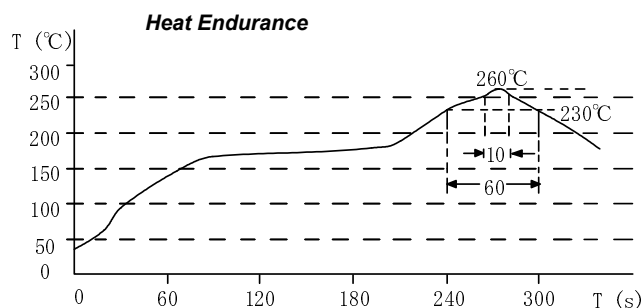
SMD Power Inductor CDRH4D14/LD



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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<u>CDRH4D14LDNP-6R8NC</u>	<u>CDRH4D14LDNP-100MC</u>	<u>CDRH4D14LDNP-330MC</u>	<u>CDRH4D14LDNP-101MC</u>
<u>CDRH4D14LDNP-150MC</u>	<u>CDRH4D14LDNP-470MC</u>	<u>CDRH4D14LDNP-151MC</u>	<u>CDRH4D14LDNP-2R2NC</u>
<u>CDRH4D14LDNP-221MC</u>	<u>CDRH4D14LDNP-220MC</u>	<u>CDRH4D14LDNP-680MC</u>	<u>CDRH4D14LDNP-3R0NC</u>