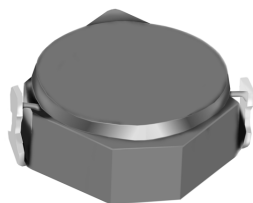


SMD Power Inductor CDRH2D14B/LD



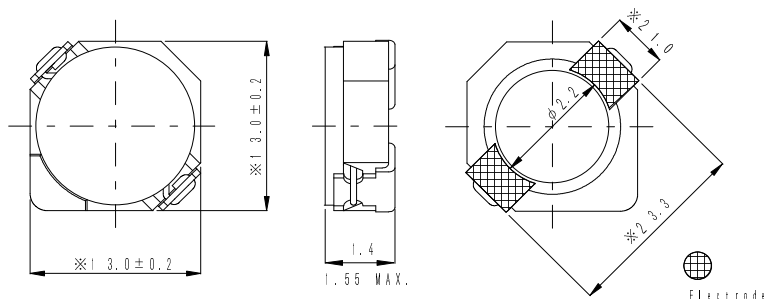
Halogen
Free



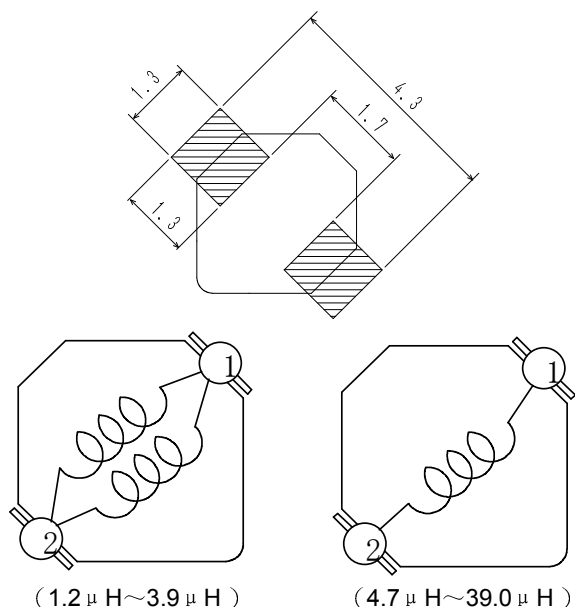
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.55mm Max.
- Product weight: 47mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

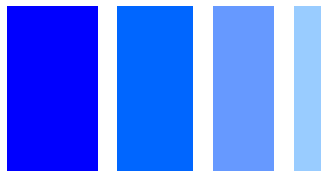
Packaging

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

Applications

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

SMD Power Inductor CDRH2D14B/LD



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH2D14B/LDNP-1R2NC	Q	$1.2 \pm 30\%$	35m(28m)	1.30	1.00	2.50
CDRH2D14B/LDNP-1R5NC	R	$1.5 \pm 30\%$	49m(39m)	1.20	0.90	2.10
CDRH2D14B/LDNP-1R8NC	S	$1.8 \pm 30\%$	60m(48m)	1.10	0.80	1.90
CDRH2D14B/LDNP-2R2NC	A	$2.2 \pm 30\%$	82m(65m)	1.00	0.70	1.60
CDRH2D14B/LDNP-2R7NC	B	$2.7 \pm 30\%$	92m(73m)	0.88	0.65	1.50
CDRH2D14B/LDNP-3R3NC	C	$3.3 \pm 30\%$	94m(75m)	0.78	0.57	1.35
CDRH2D14B/LDNP-3R9NC	M	$3.9 \pm 30\%$	109m(87m)	0.75	0.52	1.30
CDRH2D14B/LDNP-4R7NC	D	$4.7 \pm 30\%$	0.13(0.10)	0.71	0.50	1.13
CDRH2D14B/LDNP-5R6NC	N	$5.6 \pm 30\%$	0.14(0.11)	0.60	0.45	1.10
CDRH2D14B/LDNP-6R8NC	E	$6.8 \pm 30\%$	0.19(0.15)	0.56	0.40	0.97
CDRH2D14B/LDNP-8R2NC	O	$8.2 \pm 30\%$	0.24(0.19)	0.50	0.36	0.85
CDRH2D14B/LDNP-100MC	F	$10.0 \pm 20\%$	0.25(0.20)	0.47	0.33	0.76
CDRH2D14B/LDNP-120MC	G	$12.0 \pm 20\%$	0.34(0.27)	0.43	0.30	0.64
CDRH2D14B/LDNP-150MC	H	$15.0 \pm 20\%$	0.39(0.31)	0.38	0.27	0.59
CDRH2D14B/LDNP-180MC	P	$18.0 \pm 20\%$	0.46(0.37)	0.36	0.25	0.54
CDRH2D14B/LDNP-220MC	I	$22.0 \pm 20\%$	0.57(0.45)	0.31	0.22	0.47
CDRH2D14B/LDNP-270MC	J	$27.0 \pm 20\%$	0.68(0.54)	0.28	0.20	0.43
CDRH2D14B/LDNP-330MC	K	$33.0 \pm 20\%$	0.78(0.61)	0.26	0.18	0.41
CDRH2D14B/LDNP-390MC	L	$39.0 \pm 20\%$	1.04(0.83)	0.24	0.16	0.35

※1 Inductance measuring condition: at 100 kHz.

※2 Saturation current: The DC current at which the inductance decreases to 65% of it's nominal value.

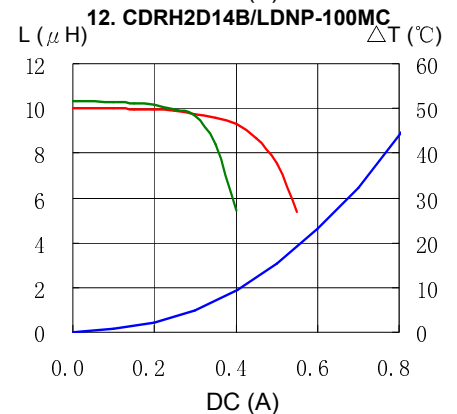
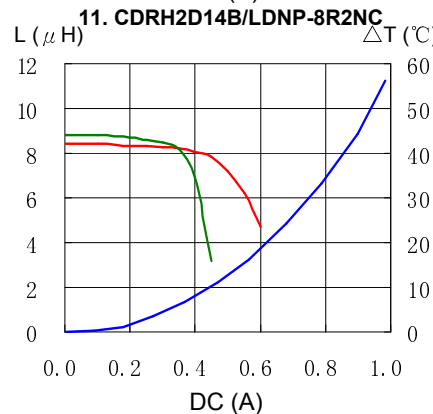
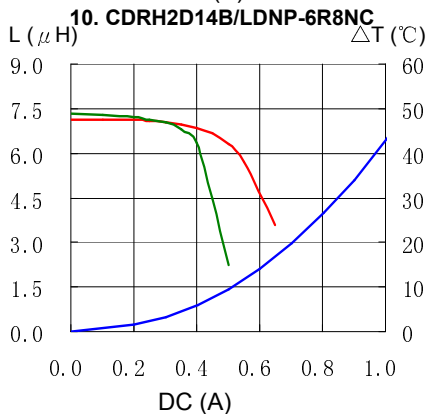
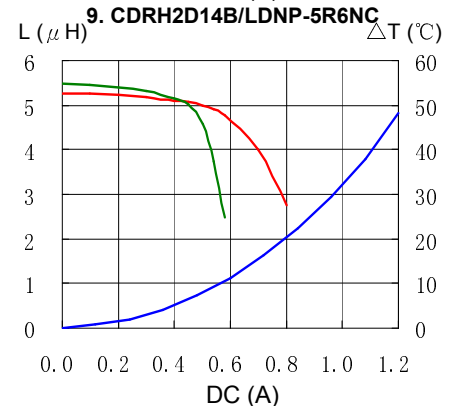
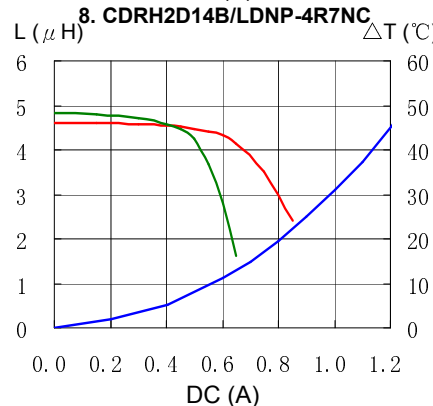
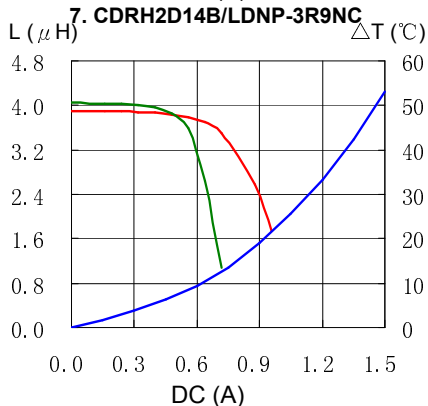
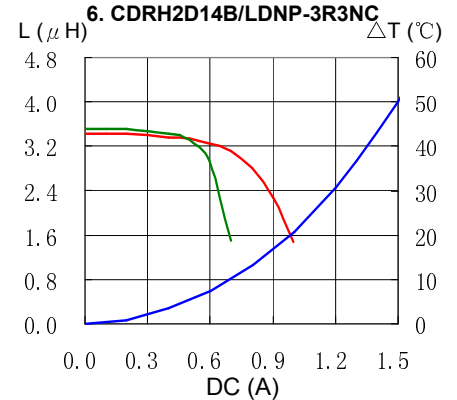
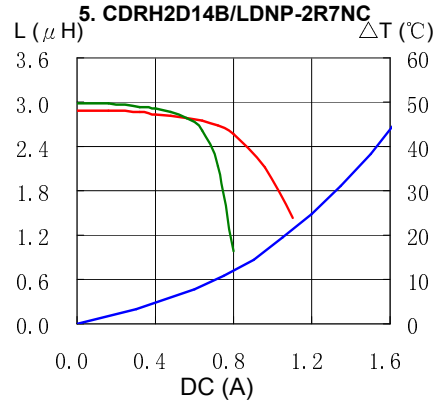
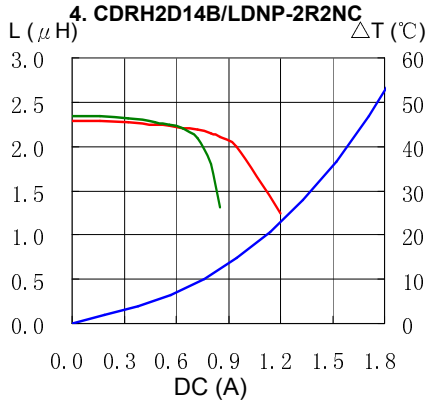
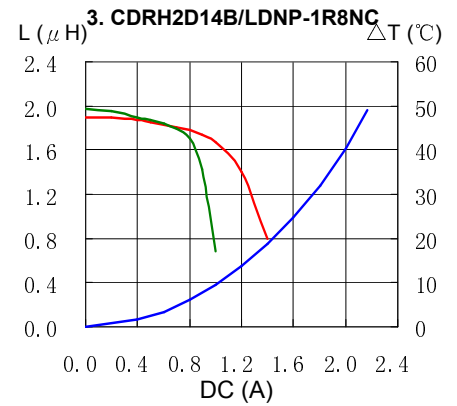
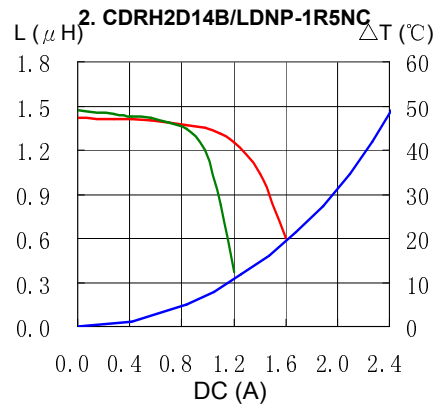
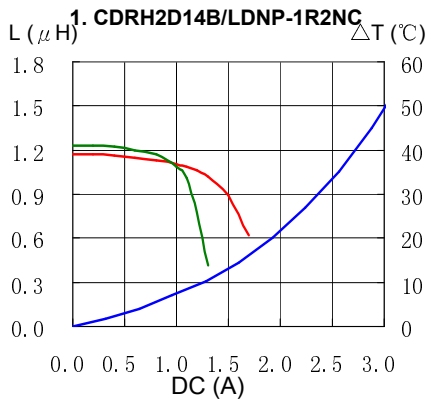
※3 Temperature rise current: The DC current at which the temperature rise is $\Delta T = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

SMD Power Inductor CDRH2D14B/LD



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

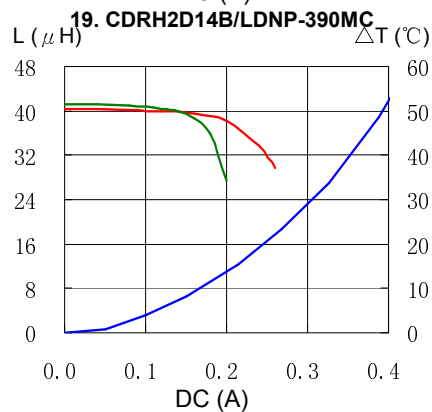
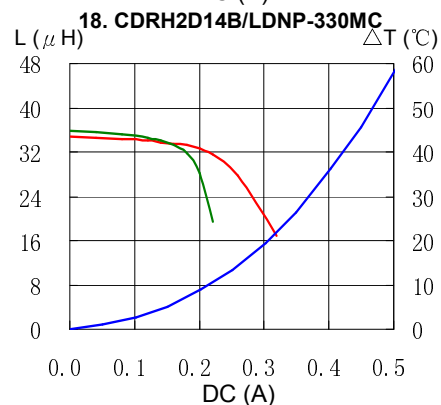
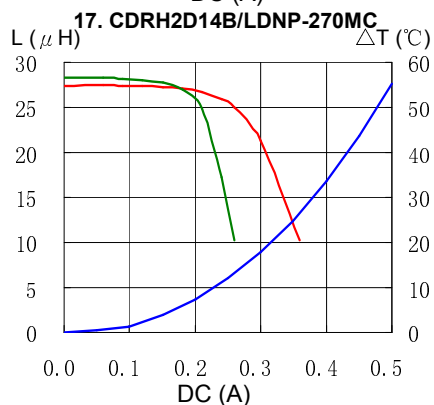
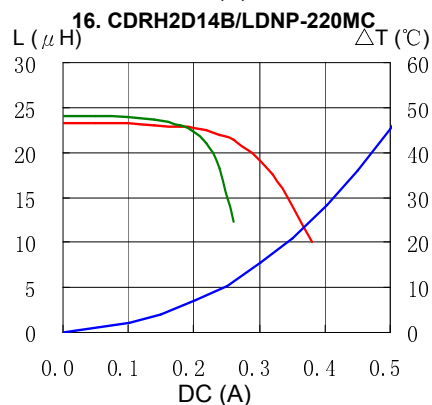
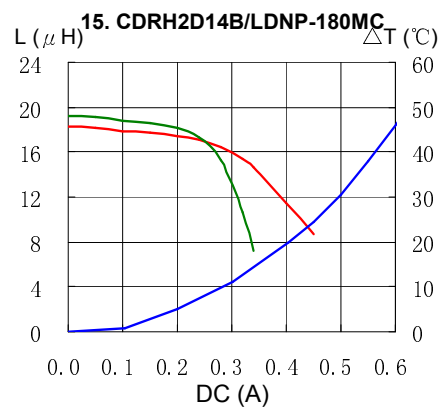
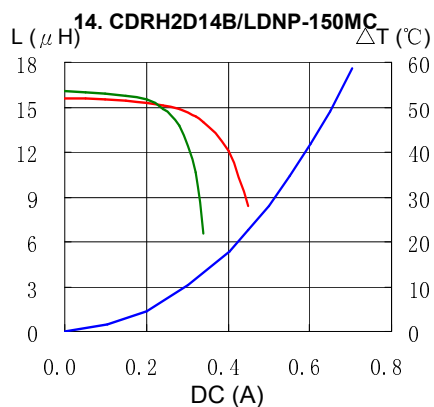
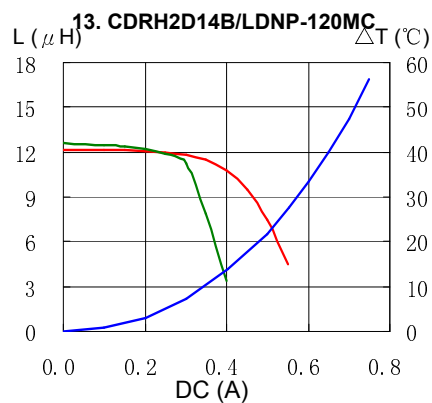


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Saturation Current & Temperature Rise Graph

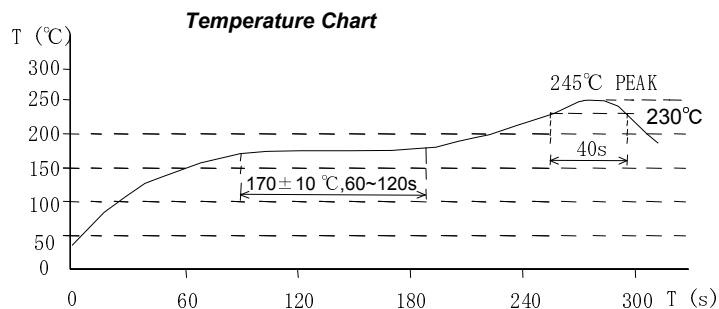
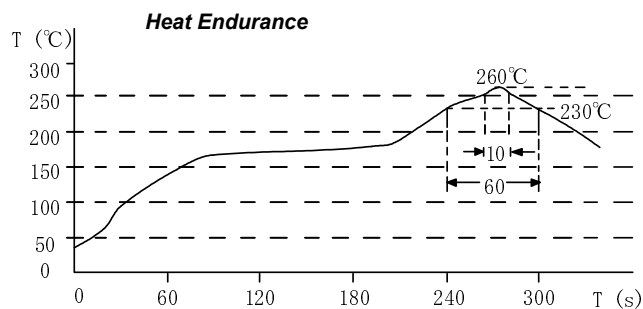
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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