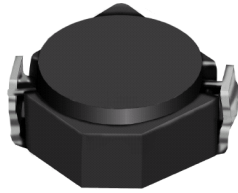
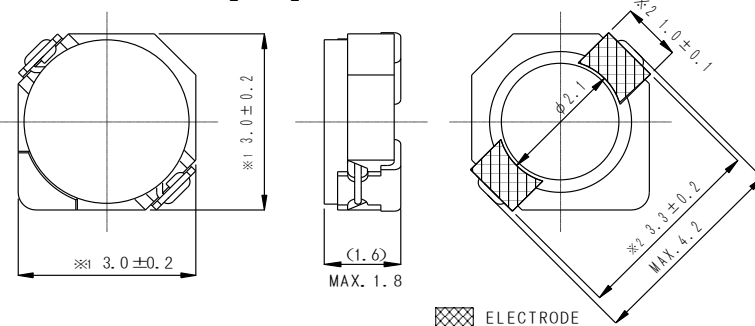


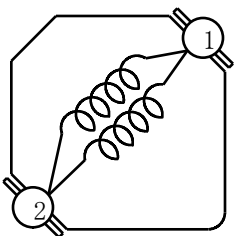
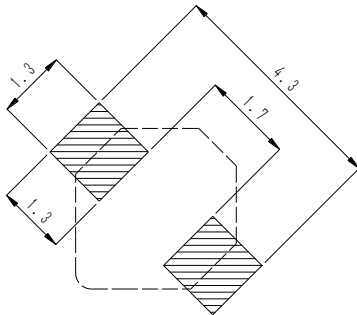
SMD Power Inductor CDRH2D16/LD



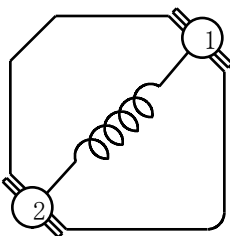
Dimension - [mm]



Land pattern and Schematics - [mm]



(2.2 μ H~4.7 μ H)



(5.6 μ H~27 μ H)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L $\times$ W $\times$ H: 3.2 $\times$ 3.2 $\times$ 1.8mm Max.
- Product weight: 60mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

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

CDRH2D16/LD



Electrical Characteristics

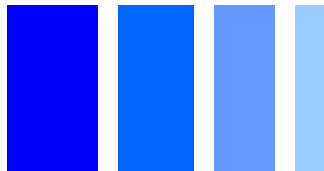
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH2D16LDNP-2R2NC	A	$2.2 \pm 30\%$	47(38)	0.86	0.65	2.20
CDRH2D16LDNP-2R7NC	B	$2.7 \pm 30\%$	61(49)	0.82	0.60	1.90
CDRH2D16LDNP-3R3NC	C	$3.3 \pm 30\%$	67(54)	0.72	0.52	1.74
CDRH2D16LDNP-3R9NC	D	$3.9 \pm 30\%$	75(60)	0.70	0.48	1.60
CDRH2D16LDNP-4R7NC	E	$4.7 \pm 30\%$	101(81)	0.62	0.45	1.32
CDRH2D16LDNP-5R6NC	F	$5.6 \pm 30\%$	123(98)	0.57	0.40	1.25
CDRH2D16LDNP-6R8NC	G	$6.8 \pm 30\%$	158(127)	0.50	0.35	1.00
CDRH2D16LDNP-8R2NC	H	$8.2 \pm 30\%$	171(137)	0.45	0.33	0.95
CDRH2D16LDNP-100NC	I	$10.0 \pm 30\%$	195(156)	0.42	0.30	0.92
CDRH2D16LDNP-120NC	J	$12.0 \pm 30\%$	223(179)	0.39	0.28	0.85
CDRH2D16LDNP-150NC	K	$15.0 \pm 30\%$	248(198)	0.35	0.26	0.81
CDRH2D16LDNP-180NC	L	$18.0 \pm 30\%$	316(252)	0.32	0.23	0.73
CDRH2D16LDNP-220NC	M	$22.0 \pm 30\%$	418(335)	0.28	0.21	0.60
CDRH2D16LDNP-270NC	N	$27.0 \pm 30\%$	466(373)	0.26	0.18	0.53

※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.

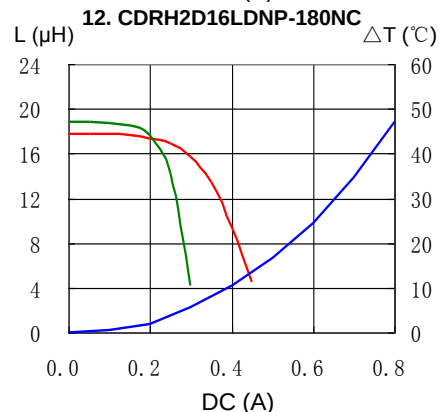
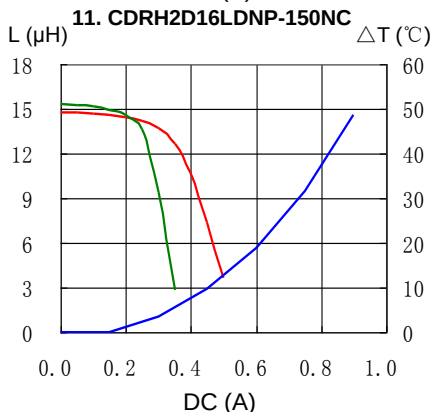
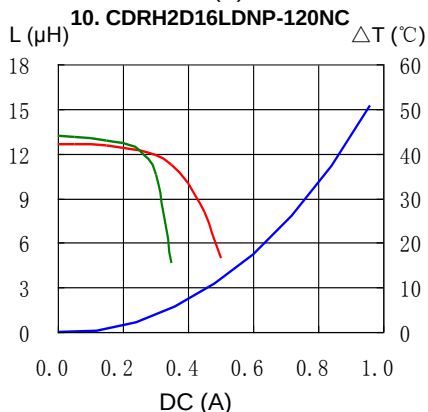
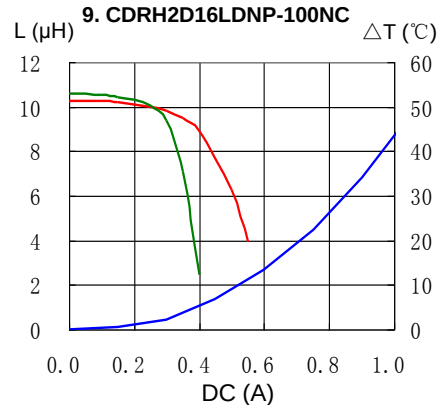
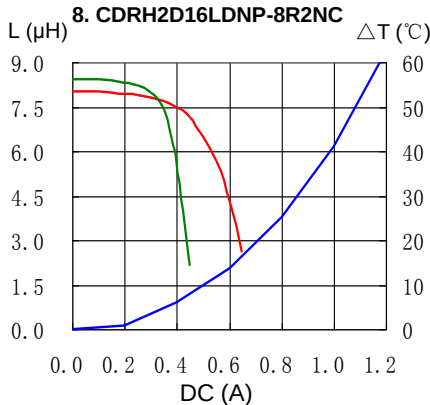
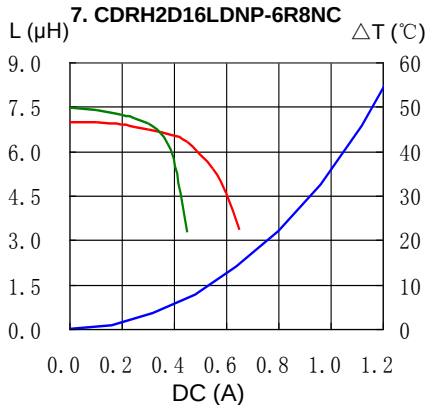
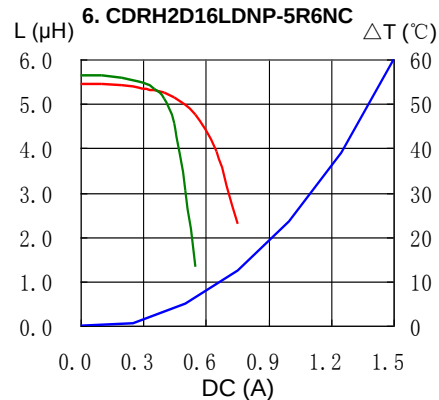
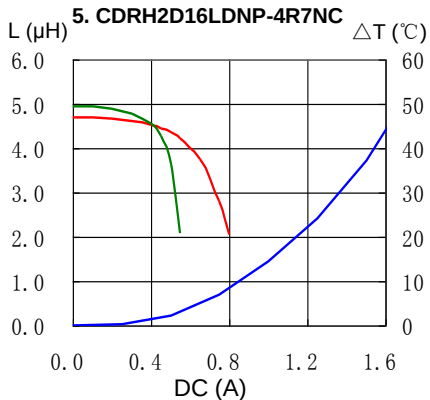
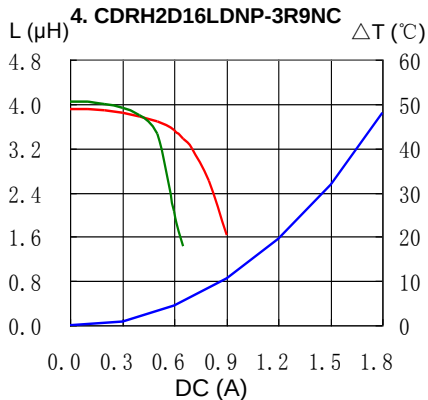
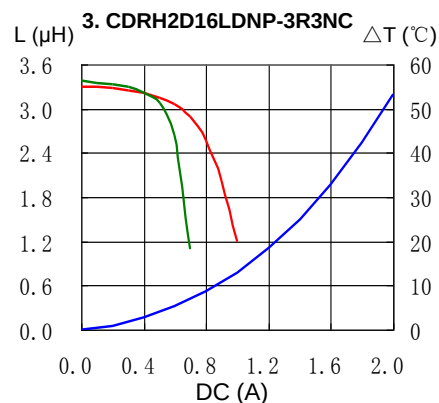
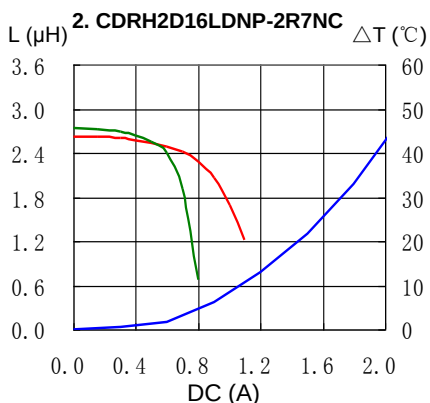
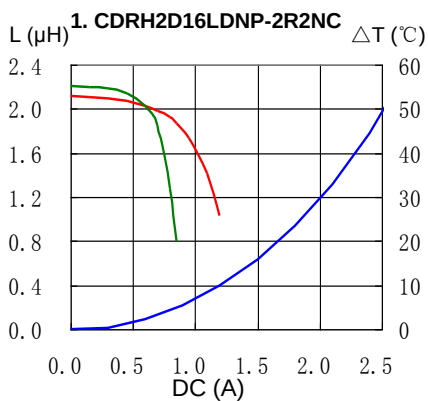
※3 Temperature rise current: The DC current at which the temperature rise is $\Delta T = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

SMD Power Inductor CDRH2D16/LD



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

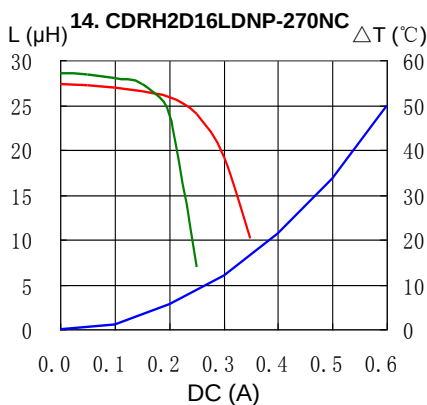
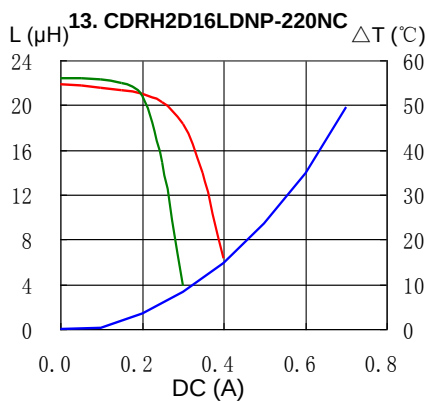


SMD Power Inductor CDRH2D16/LD



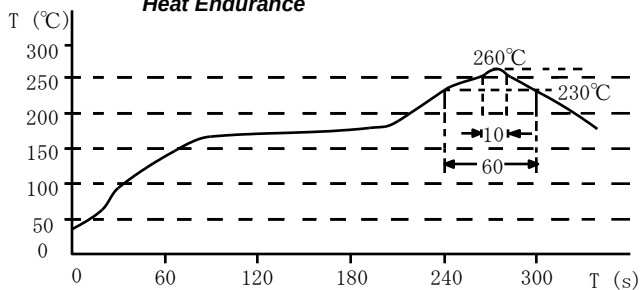
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

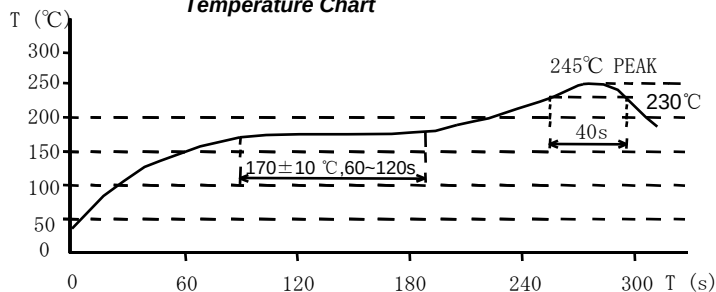


Solder Reflow Condition

Heat Endurance



Temperature Chart



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