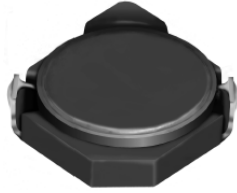


SMD Power Inductor

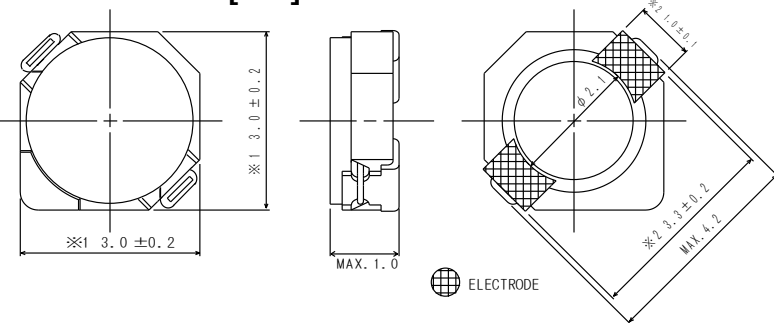
CDRH2D09C



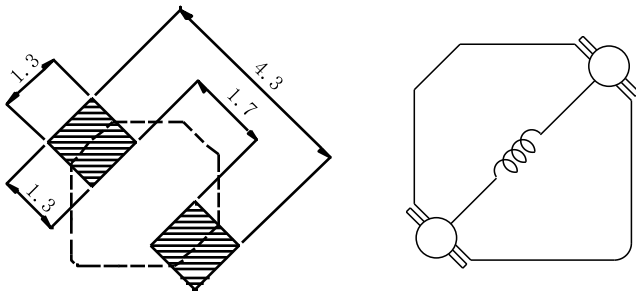
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.0 mm Max.
- Product weight: 28mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

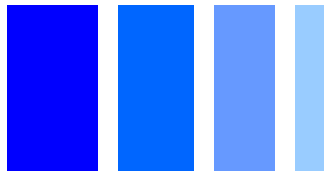
- Carrier tape and reel packaging
- 7.0" diameter reel
- 1500pcs per reel

Applications

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

SMD Power Inductor

CDRH2D09C



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 105°C	
CDRH2D09CNP-1R2NC	A	$1.2 \pm 25\%$	78m(62.4m)	0.83	0.64	1.55
CDRH2D09CNP-1R5NC	B	$1.5 \pm 25\%$	88m(70.6m)	0.70	0.52	1.35
CDRH2D09CNP-2R4NC	D	$2.4 \pm 25\%$	119m(95.0m)	0.58	0.45	1.10
CDRH2D09CNP-3R3NC	F	$3.3 \pm 25\%$	174m(139m)	0.50	0.38	0.90
CDRH2D09CNP-4R7NC	H	$4.7 \pm 25\%$	238m(190m)	0.38	0.30	0.80
CDRH2D09CNP-6R4NC	K	$6.4 \pm 25\%$	290m(232m)	0.36	0.27	0.65
CDRH2D09CNP-8R2NC	L	$8.2 \pm 25\%$	0.40(0.32)	0.31	0.25	0.56
CDRH2D09CNP-100NC	M	$10 \pm 25\%$	0.50(0.40)	0.30	0.23	0.51
CDRH2D09CNP-120NC	N	$12 \pm 25\%$	0.55(0.44)	0.27	0.20	0.45
CDRH2D09CNP-150NC	P	$15 \pm 25\%$	0.65(0.52)	0.24	0.18	0.42
CDRH2D09CNP-180NC	Q	$18 \pm 25\%$	0.77(0.61)	0.22	0.17	0.38
CDRH2D09CNP-220NC	R	$22 \pm 25\%$	0.94(0.75)	0.20	0.15	0.35
CDRH2D09CNP-270NC	S	$27 \pm 25\%$	1.11(0.88)	0.16	0.12	0.32

※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 $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

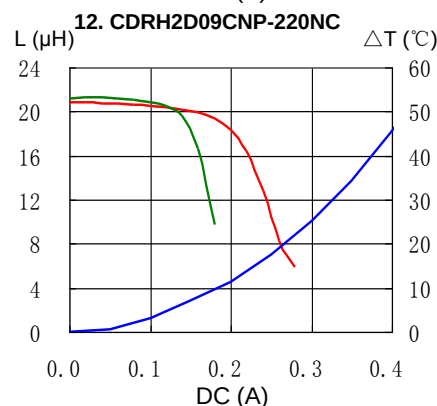
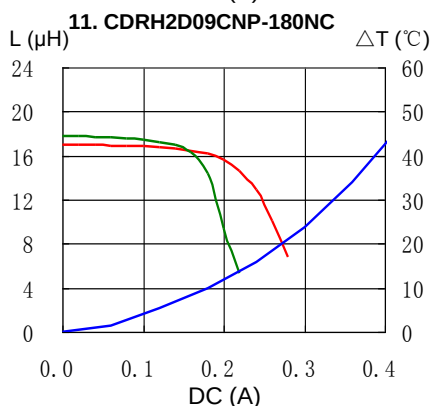
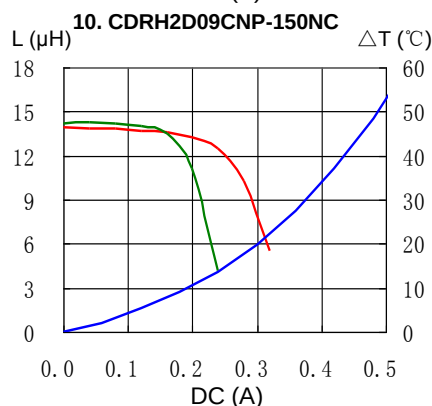
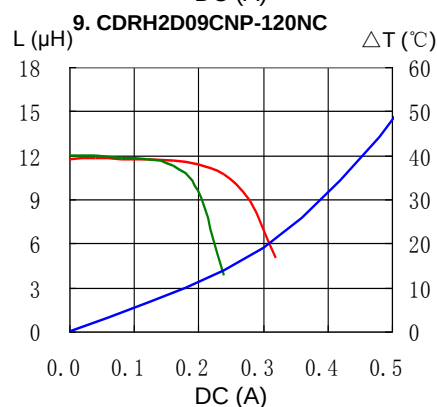
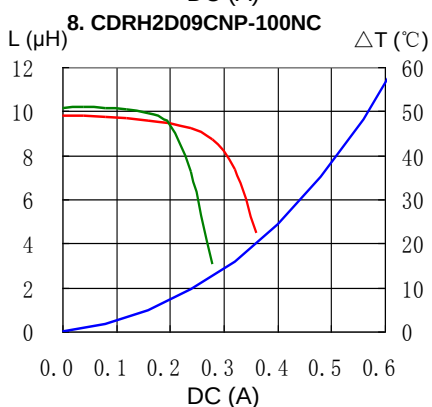
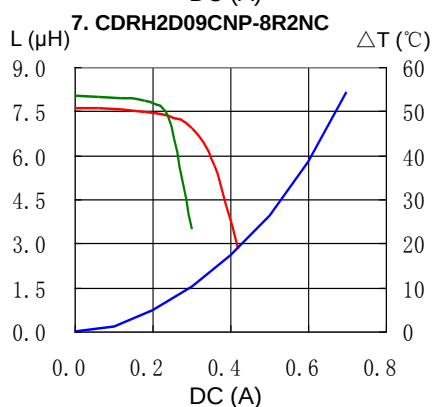
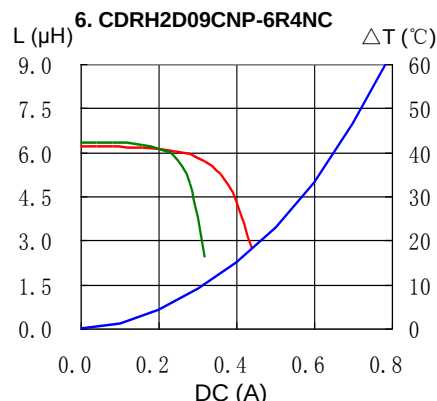
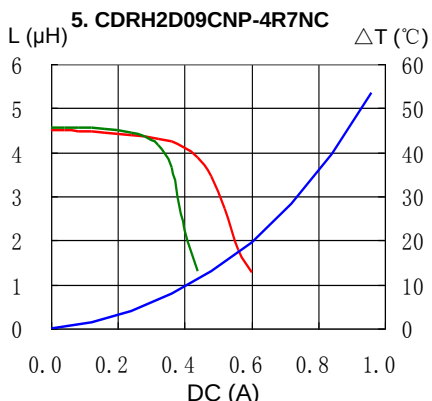
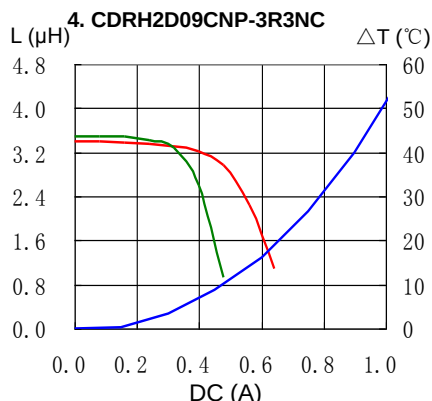
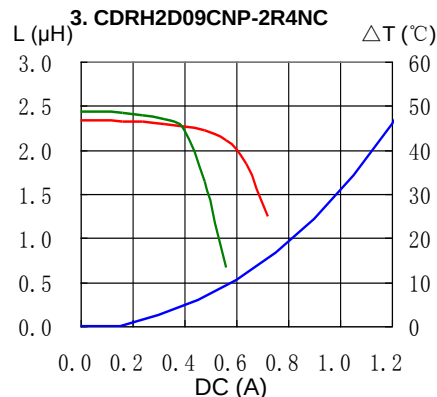
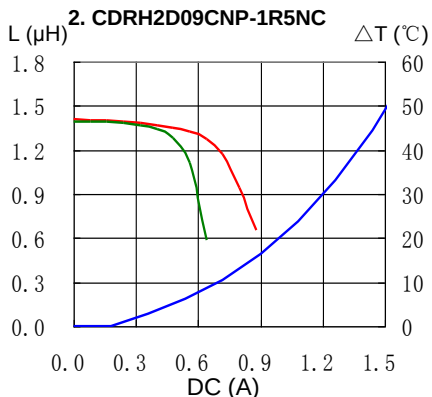
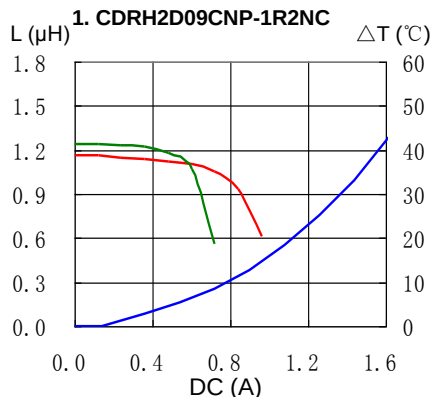
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Saturation Current & Temperature Rise Graph

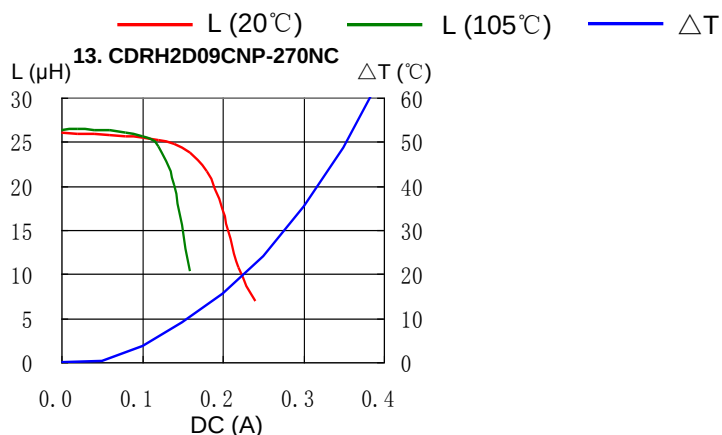
— L (20°C) — L (105°C) — ΔT



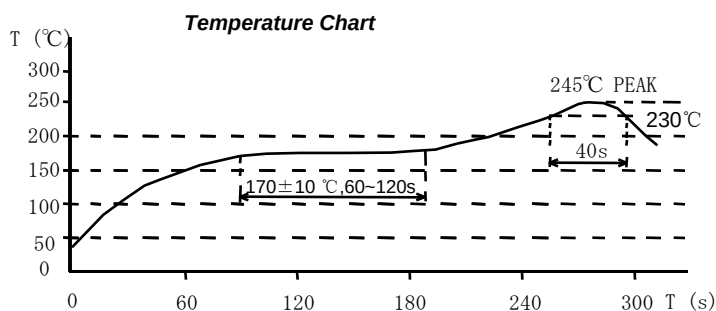
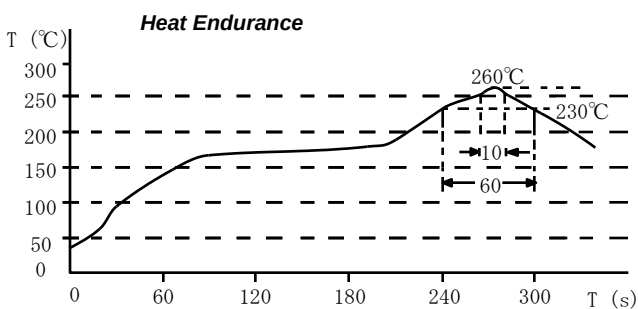
SMD Power Inductor CDRH2D09C



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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