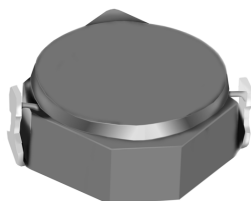


SMD Power Inductor CDRH2D14/E



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.

Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

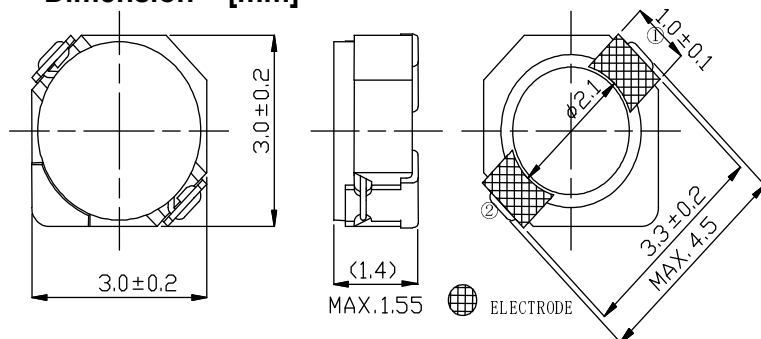
Packaging

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

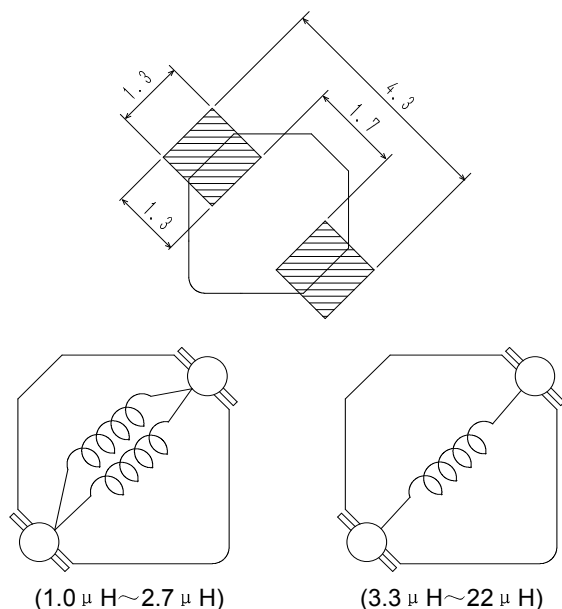
Applications

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

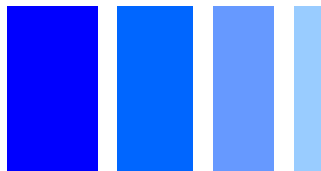
Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDRH2D14/E



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	
CDRH2D14ENP-1R0NC	A	1.0 $\pm$ 30%	48(38)	1.92	1.44	2.40
CDRH2D14ENP-1R5NC	B	1.5 $\pm$ 30%	63(50)	1.80	1.20	2.00
CDRH2D14ENP-1R8NC	C	1.8 $\pm$ 30%	75(60)	1.65	1.10	1.80
CDRH2D14ENP-2R2NC	D	2.2 $\pm$ 30%	94(75)	1.50	1.00	1.60
CDRH2D14ENP-2R7NC	E	2.7 $\pm$ 30%	106(85)	1.35	0.9	1.40
CDRH2D14ENP-3R3NC	F	3.3 $\pm$ 30%	125(100)	1.20	0.82	1.24
CDRH2D14ENP-3R9NC	G	3.9 $\pm$ 30%	138(110)	1.10	0.75	1.12
CDRH2D14ENP-4R7NC	H	4.7 $\pm$ 30%	169(135)	1.00	0.68	1.00
CDRH2D14ENP-5R6NC	I	5.6 $\pm$ 30%	188(150)	0.95	0.6	0.98
CDRH2D14ENP-6R8NC	J	6.8 $\pm$ 30%	213(170)	0.85	0.56	0.92
CDRH2D14ENP-8R2NC	K	8.2 $\pm$ 30%	281(225)	0.80	0.51	0.80
CDRH2D14ENP-100NC	L	10 $\pm$ 30%	294(235)	0.70	0.46	0.76
CDRH2D14ENP-120NC	M	12 $\pm$ 30%	394(315)	0.62	0.42	0.64
CDRH2D14ENP-150NC	N	15 $\pm$ 30%	596(477)	0.53	0.39	0.53
CDRH2D14ENP-220NC	P	22 $\pm$ 30%	670(540)	0.50	0.34	0.46

※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.

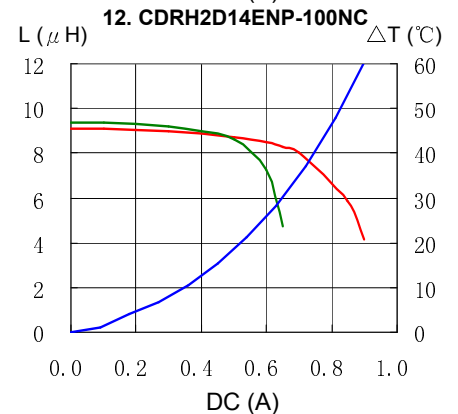
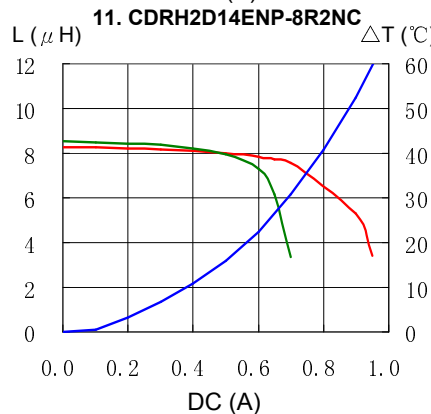
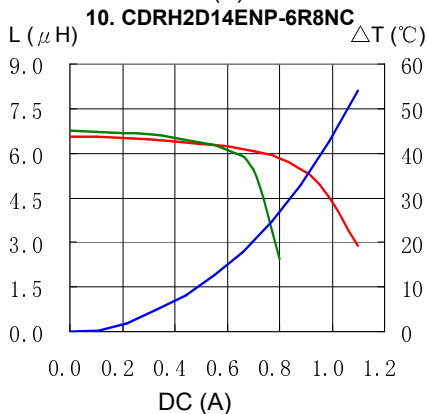
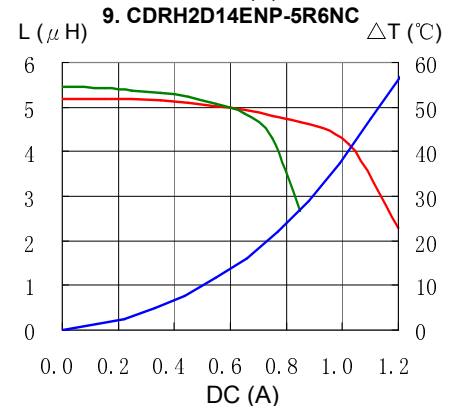
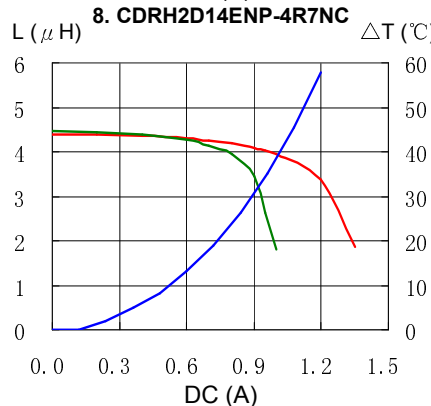
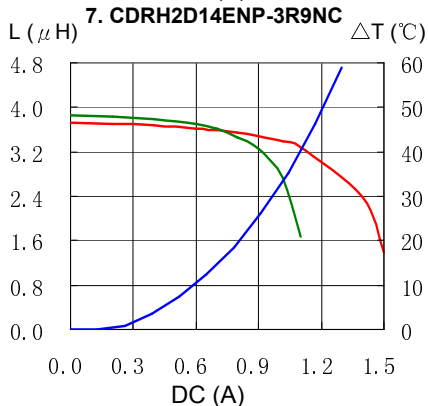
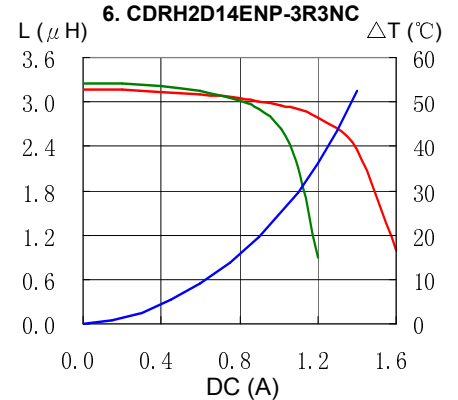
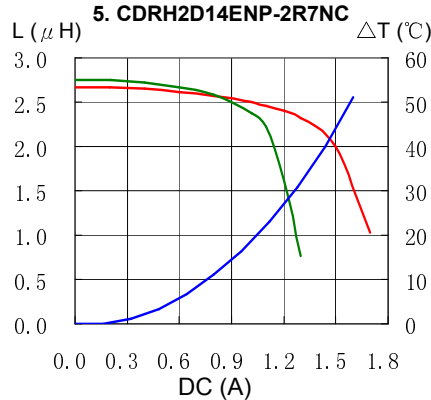
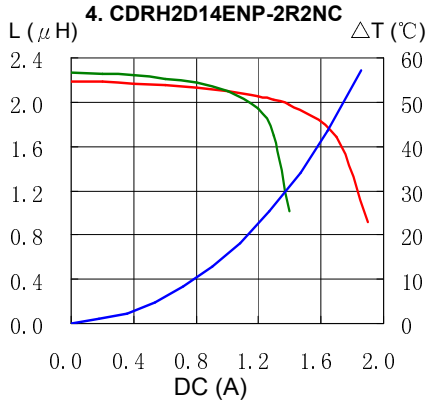
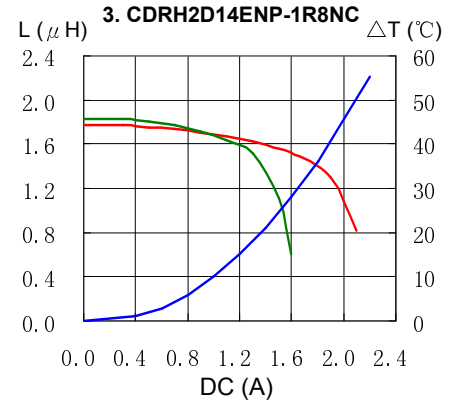
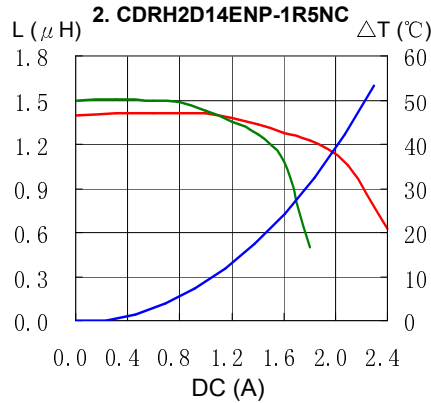
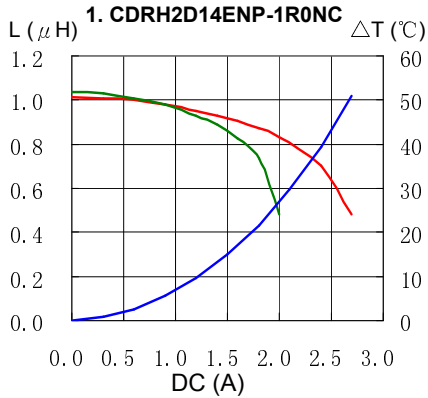
※3 Temperature rise current: The DC current at which the temperature rise is $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRH2D14/E



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

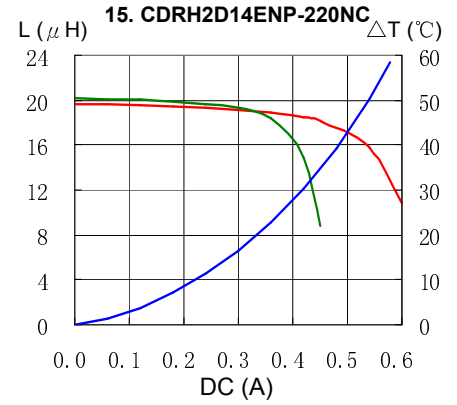
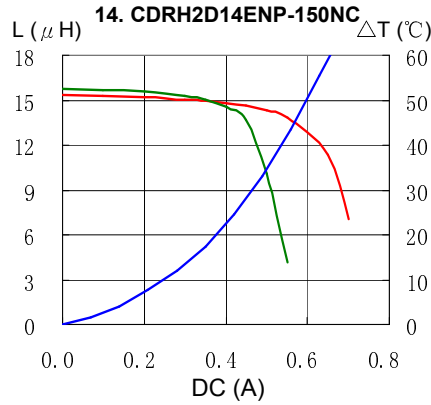
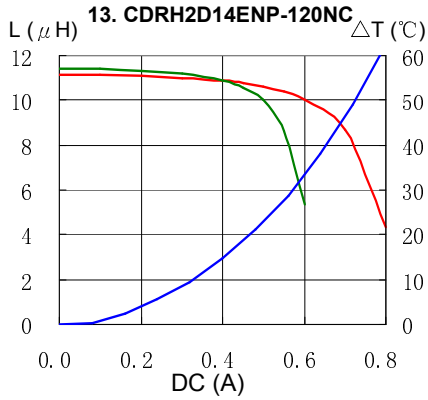


SMD Power Inductor CDRH2D14/E

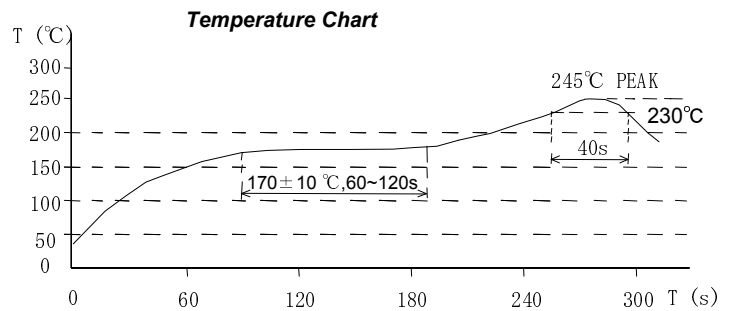
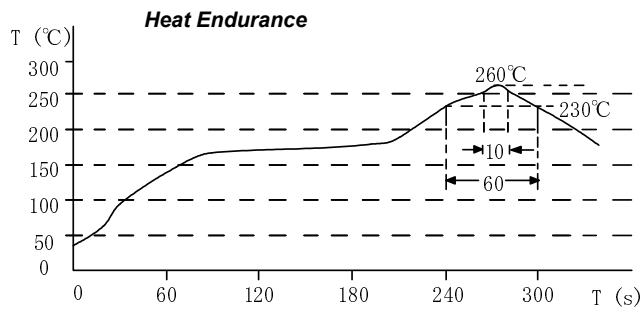


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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