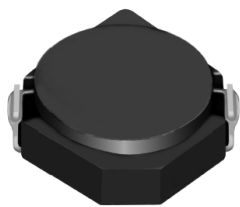




THE DATASHEET OF CDRH3D14NP-100NC

SMD Power Inductor CDRH3D14



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

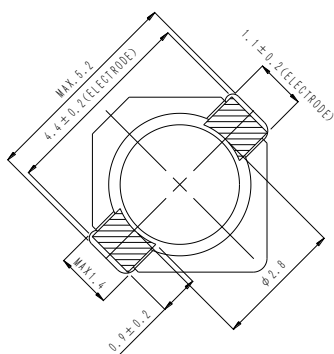
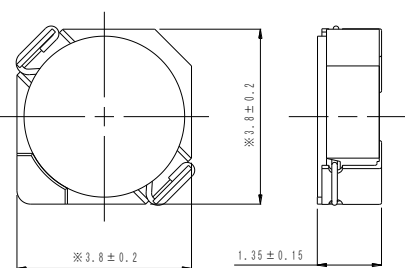
Packaging

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

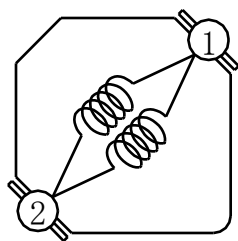
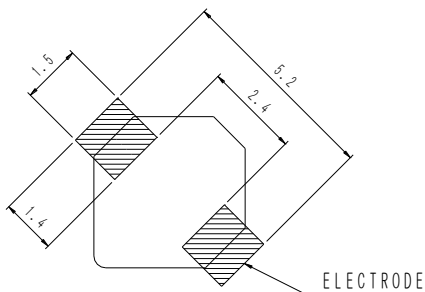
Applications

- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

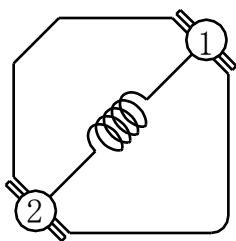
Dimension - [mm]



Land pattern and Schematics - [mm]



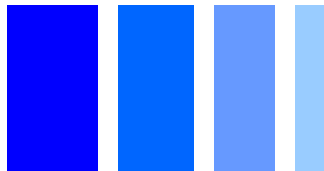
(1.2μH ~ 3.3μH)



(3.9μH ~ 22μH)

SMD Power Inductor

CDRH3D14



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 105°C	
CDRH3D14NP-1R2NC	A	$1.2 \pm 25\%$	45(36)	2.15	1.50	2.20
CDRH3D14NP-1R7NC	B	$1.7 \pm 25\%$	63(50)	1.85	1.35	2.00
CDRH3D14NP-2R2NC	D	$2.2 \pm 25\%$	69(55)	1.60	1.25	1.75
CDRH3D14NP-2R7NC	E	$2.7 \pm 25\%$	88(70)	1.45	1.15	1.36
CDRH3D14NP-3R3NC	F	$3.3 \pm 25\%$	100(80)	1.35	0.96	1.24
CDRH3D14NP-3R9NC	G	$3.9 \pm 25\%$	135(110)	1.15	0.82	1.12
CDRH3D14NP-4R7NC	H	$4.7 \pm 25\%$	150(120)	1.10	0.76	0.96
CDRH3D14NP-8R2NC	L	$8.2 \pm 25\%$	238(190)	0.82	0.64	0.74
CDRH3D14NP-100NC	M	$10 \pm 25\%$	262(210)	0.75	0.55	0.69
CDRH3D14NP-120NC	N	$12 \pm 25\%$	350(280)	0.67	0.50	0.60
CDRH3D14NP-150NC	P	$15 \pm 25\%$	488(390)	0.60	0.48	0.58
CDRH3D14NP-220NC	R	$22 \pm 25\%$	575(460)	0.52	0.37	0.43

※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.

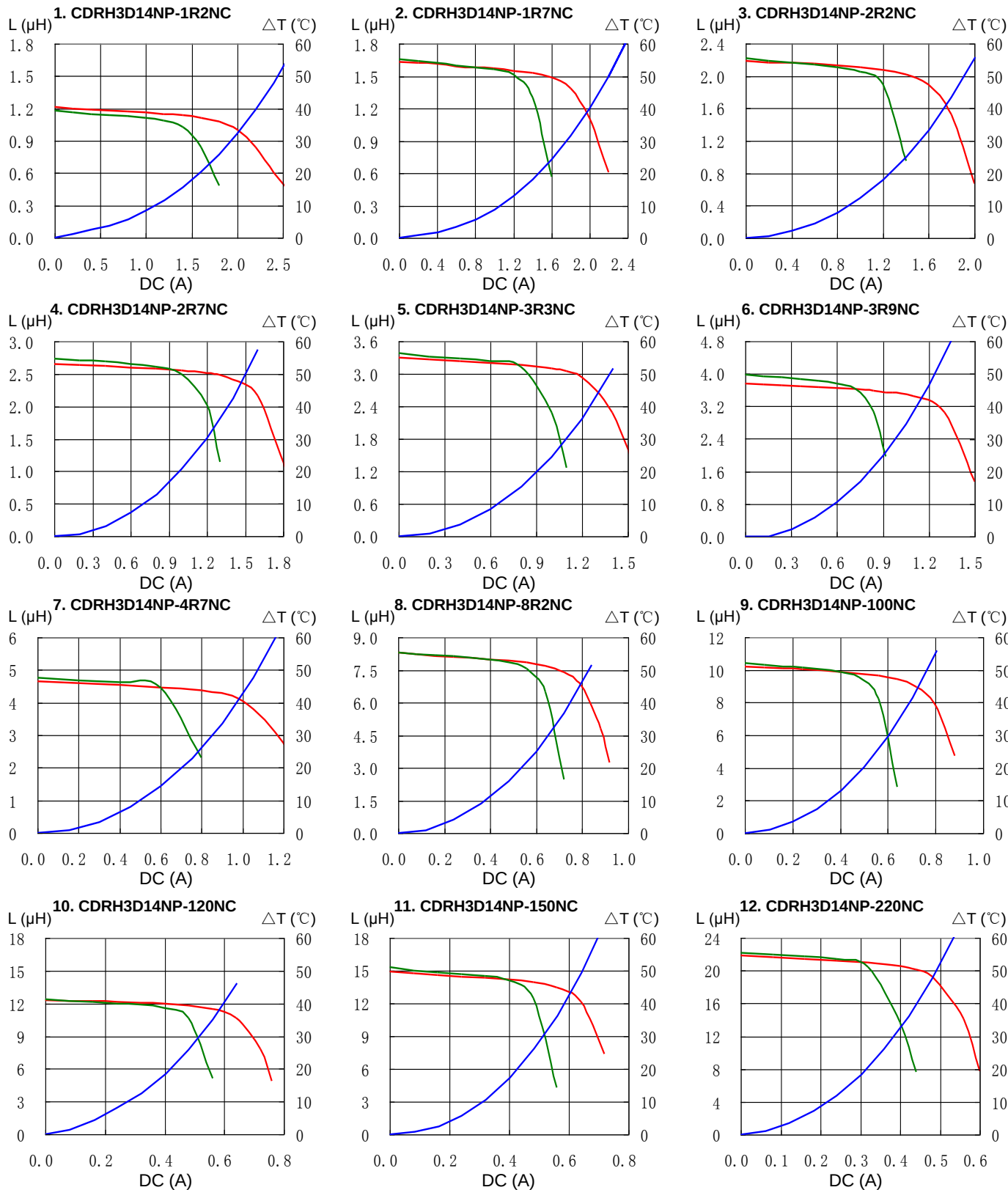
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH3D14

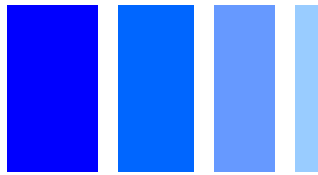


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

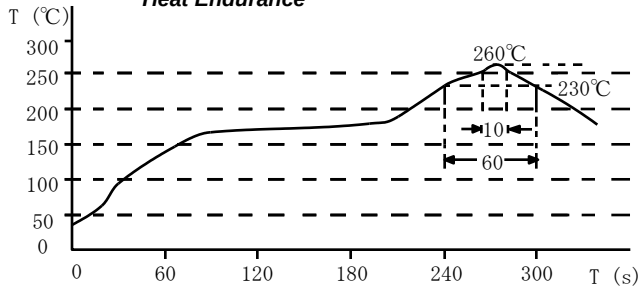


SMD Power Inductor CDRH3D14

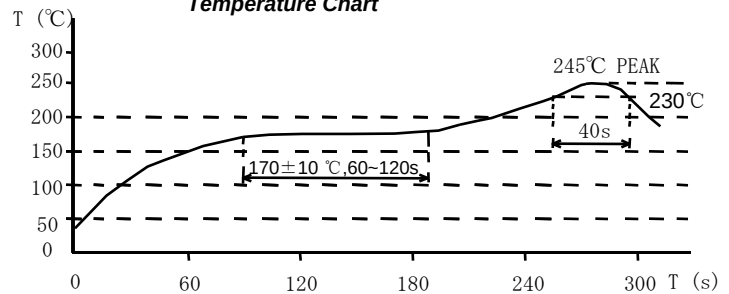


Solder Reflow Condition

Heat Endurance



Temperature Chart



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