

SMD Power Inductor

CDRH30D14R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.3 × 3.15 × 1.5 mm Max.
- Product weight: 30mg (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.

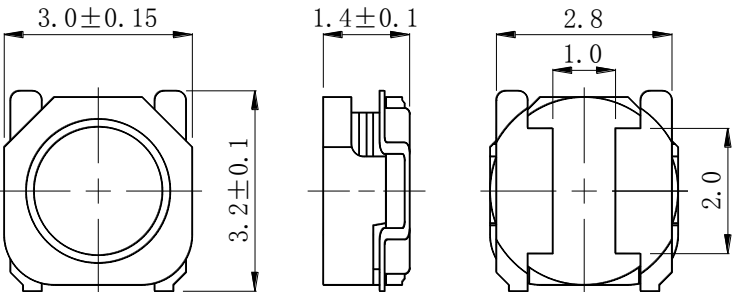
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 4000pcs per reel

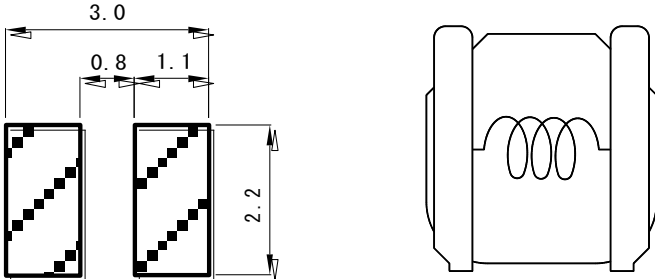
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at 20°C)	The saturation Current (A) ※2		Temperature rise Current (A) ※3
				(at 20°C)	(at 100°C)	
CDRH30D14RNP-1R0NC	A	1.0 ± 30%	39 ± 25%	1.90	1.40	2.43
CDRH30D14RNP-1R4NC	B	1.4 ± 30%	50 ± 25%	1.60	1.20	2.10
CDRH30D14RNP-2R2NC	C	2.2 ± 30%	74 ± 25%	1.30	1.00	1.62
CDRH30D14RNP-3R3MC	D	3.3 ± 20%	111 ± 20%	1.05	0.80	1.28
CDRH30D14RNP-4R7MC	E	4.7 ± 20%	153 ± 20%	0.90	0.68	1.16
CDRH30D14RNP-6R4MC	F	6.4 ± 20%	223 ± 20%	0.75	0.56	0.95
CDRH30D14RNP-100MC	G	10 ± 20%	394 ± 20%	0.60	0.46	0.63

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C(Ta=20°C).

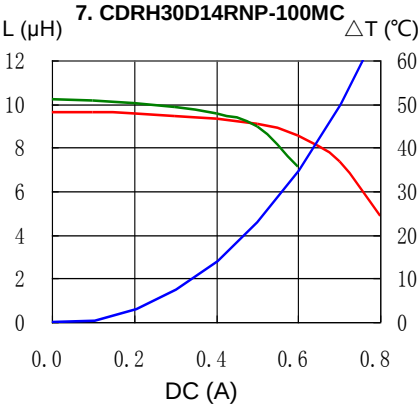
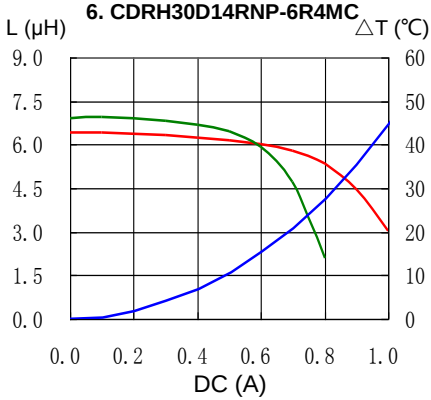
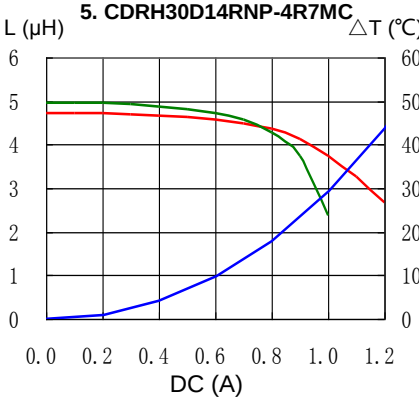
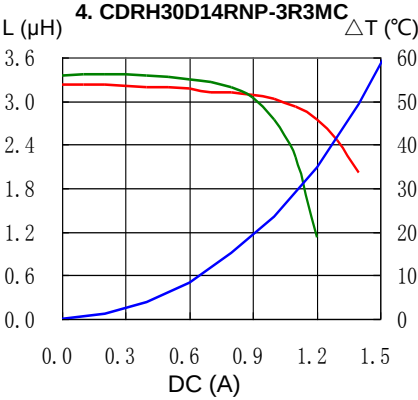
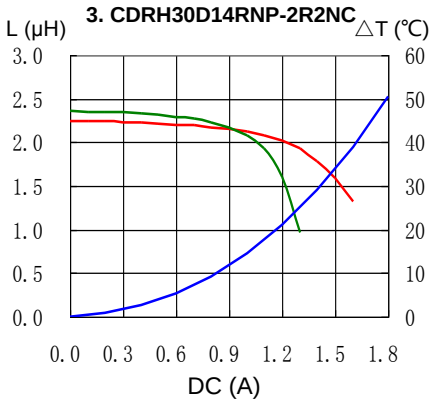
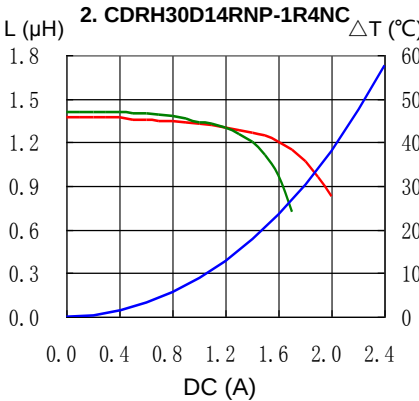
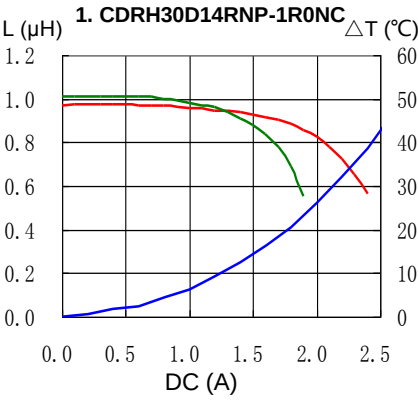
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Saturation Current & Temperature Rise Graph

— L (20°C) — (100°C) — ΔT

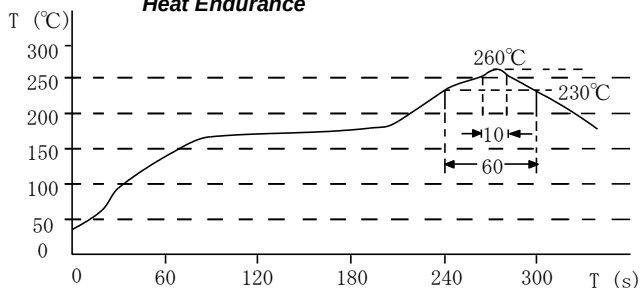


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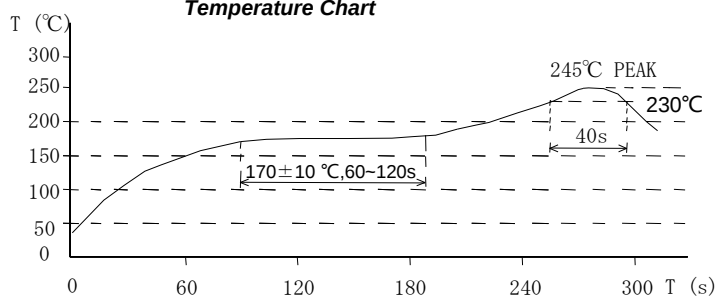


Solder Reflow Condition

Heat Endurance



Temperature Chart



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