

SMD Power Inductor CDH30D14D/SHP



RoHS

Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 1.5 mm Max.
- Product weight: 42mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

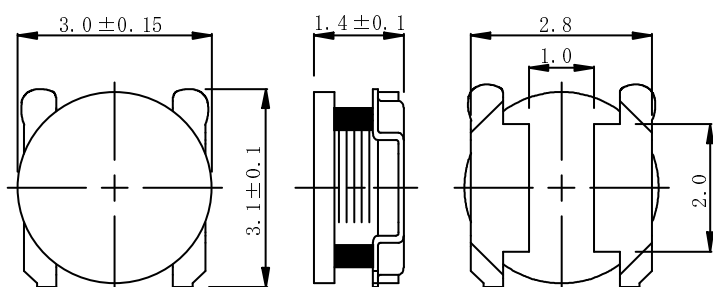
Packaging

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

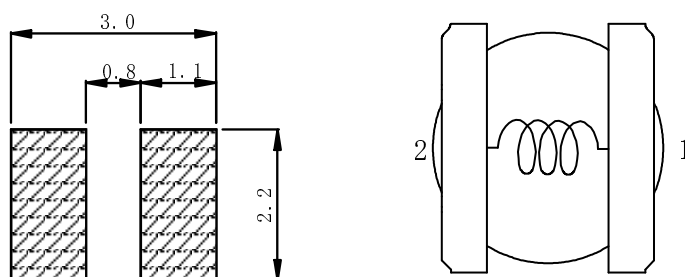
Applications

- Ideally used in Mobile phone, PDA, MP3, DVC/DSC, 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)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDH30D14DSHPHF-R68NC	L	0.68 ± 30%	35 ± 25%	3.60	2.84	2.80
CDH30D14DSHPHF-1R0NC	A	1.0 ± 30%	50 ± 25%	2.92	2.32	2.20
CDH30D14DSHPHF-1R5NC	B	1.5 ± 30%	75 ± 25%	2.44	2.00	1.80
CDH30D14DSHPHF-2R2NC	C	2.2 ± 30%	110 ± 20%	2.00	1.64	1.40
CDH30D14DSHPHF-3R3MC	D	3.3 ± 20%	155 ± 20%	1.64	1.36	1.22
CDH30D14DSHPHF-4R7MC	E	4.7 ± 20%	255 ± 20%	1.33	1.06	0.91
CDH30D14DSHPHF-6R8MC	F	6.8 ± 20%	400 ± 20%	1.14	0.90	0.70
CDH30D14DSHPHF-100MC	G	10 ± 20%	620 ± 20%	0.91	0.72	0.56

※1. Measuring condition: at 100kHz.

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

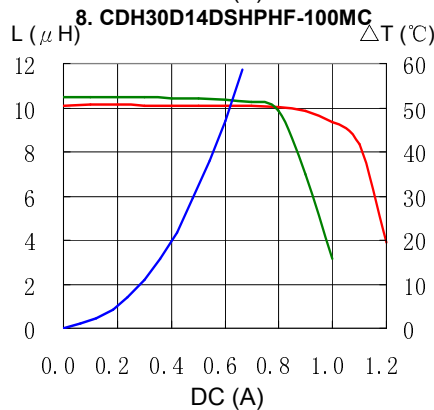
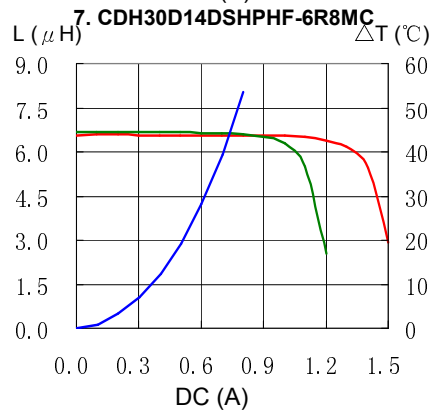
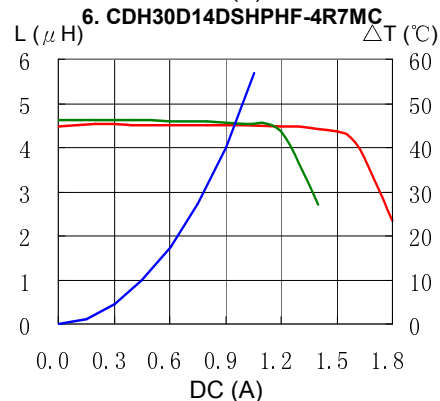
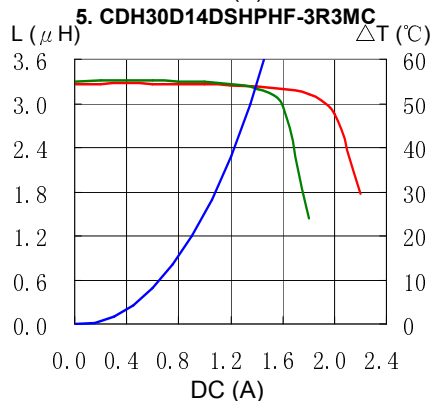
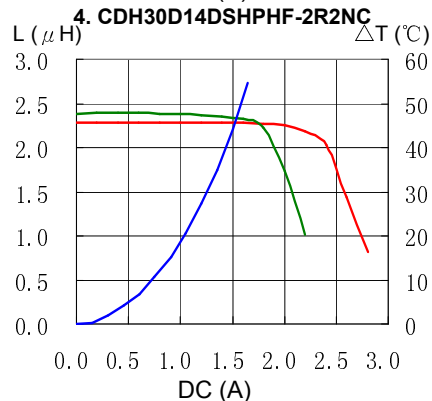
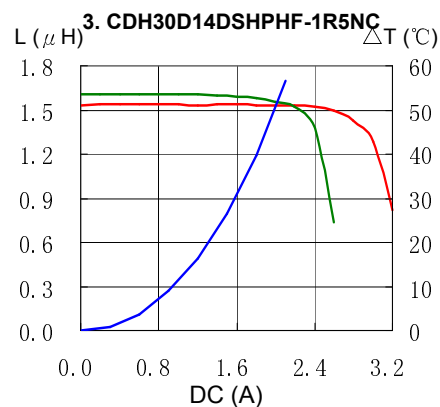
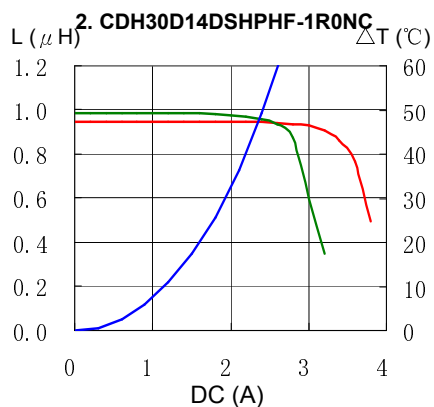
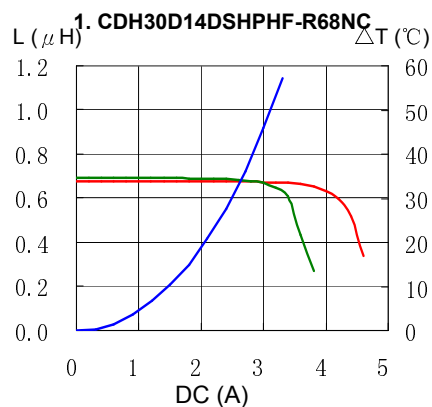
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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Saturation Current & Temperature Rise Graph

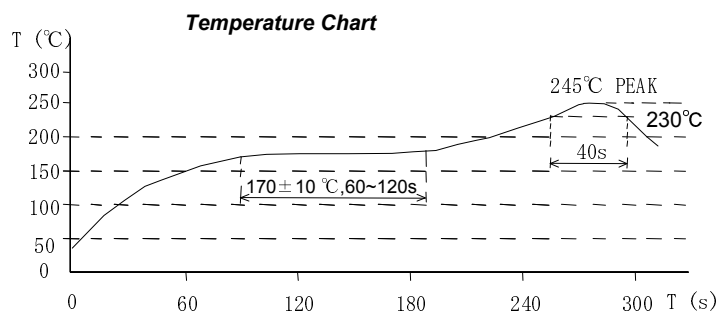
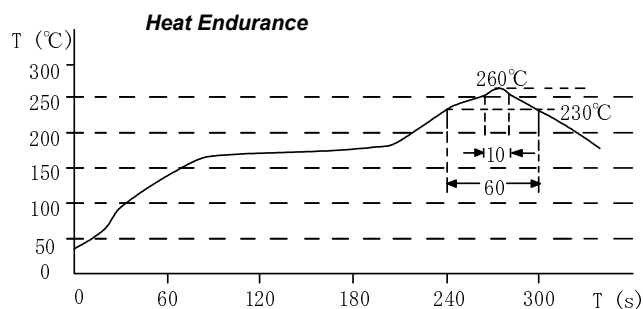
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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