

SMD Power Inductor CDH30D14D



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.15 × 3.2 × 1.5 mm Max.
- Product weight: 40mg(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.

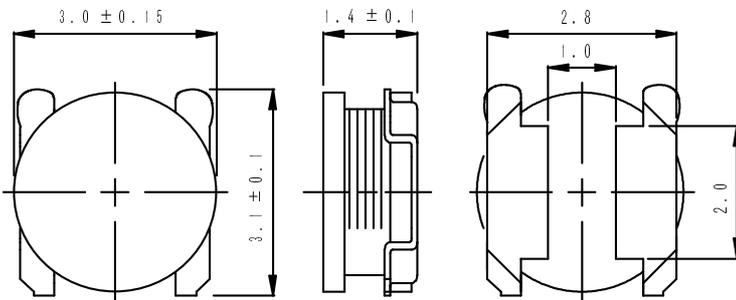
Packaging

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

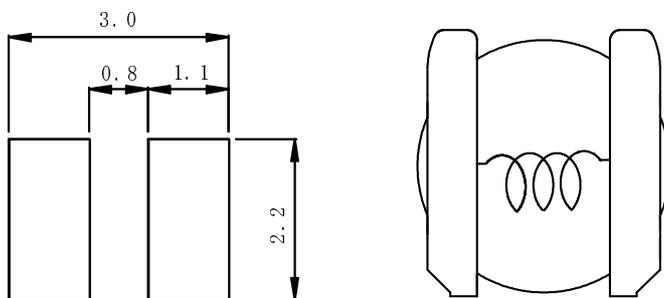
Applications

- Ideally used in cell phone, PDA, DVC and DSC.

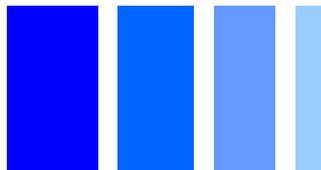
Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

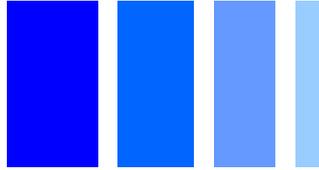
Part No.	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Within] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at100°C)	
CDH3ØD14DHF-1RØNC	A	1.0 ±30%	48 ±25%	2.66	2.25	2.20
CDH3ØD14DHF-1R6NC	B	1.6 ±30%	66 ±25%	2.19	1.83	1.82
CDH3ØD14DHF-2R2NC	C	2.2 ±30%	87 ±25%	1.89	1.53	1.57
CDH3ØD14DHF-3R3MC	D	3.3 ±20%	121 ±20%	1.53	1.28	1.28
CDH3ØD14DHF-4R7MC	E	4.7 ±20%	206 ±20%	1.23	1.05	1.00
CDH3ØD14DHF-6R8MC	F	6.8 ±20%	271 ±20%	1.05	0.90	0.80
CDH3ØD14DHF-1ØØMC	G	10 ±20%	408 ±20%	0.89	0.74	0.68
CDH3ØD14DHF-15ØMC	H	15 ±20%	613 ±20%	0.68	0.59	0.51

※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.

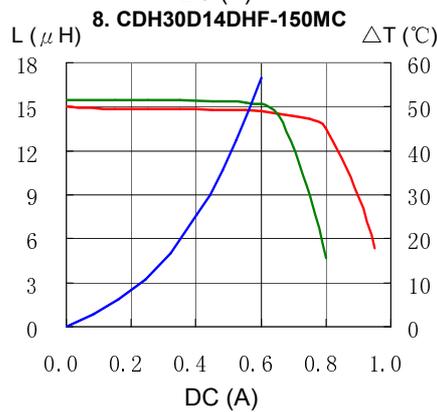
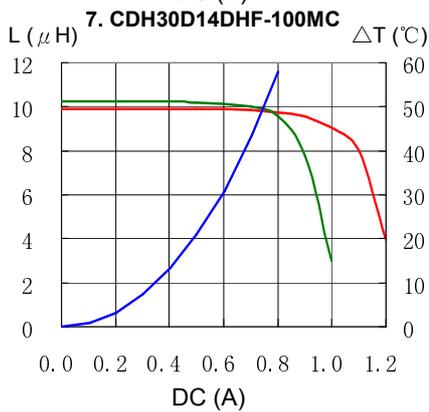
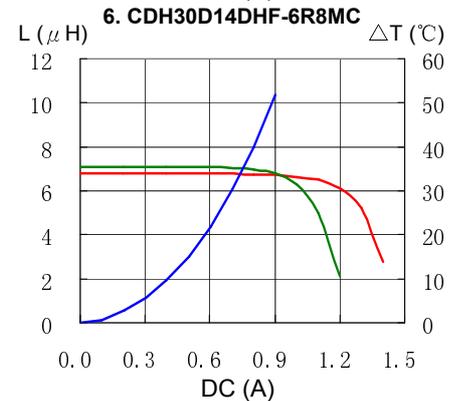
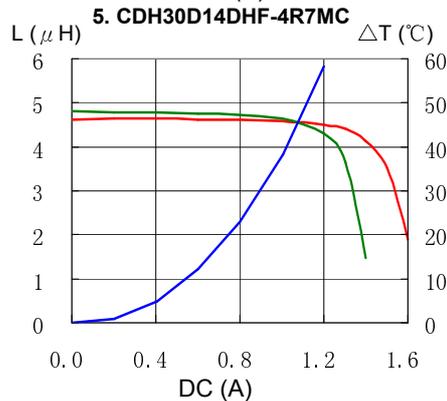
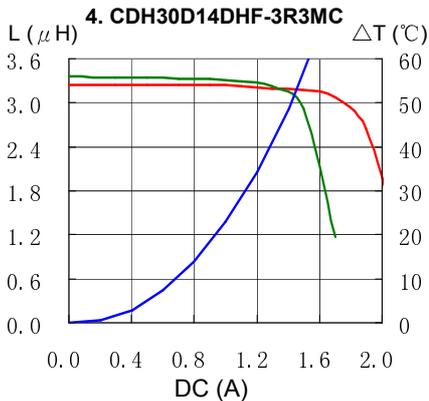
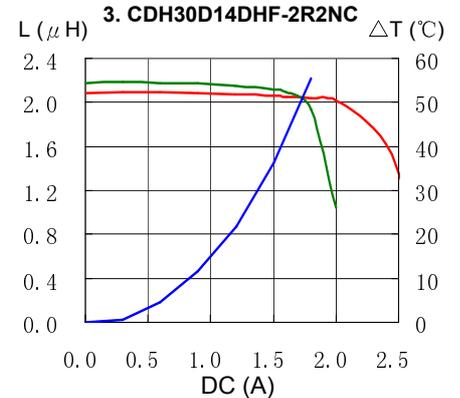
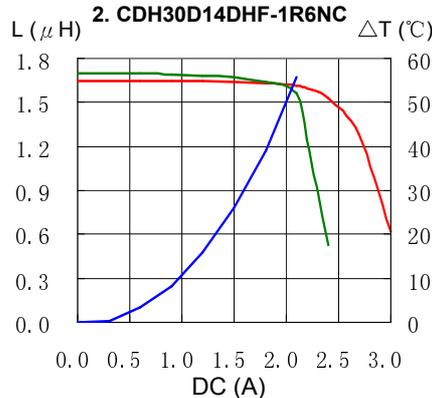
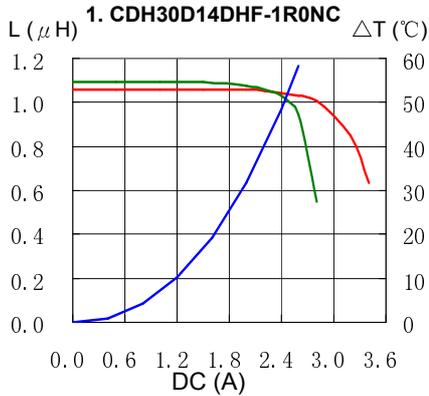
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

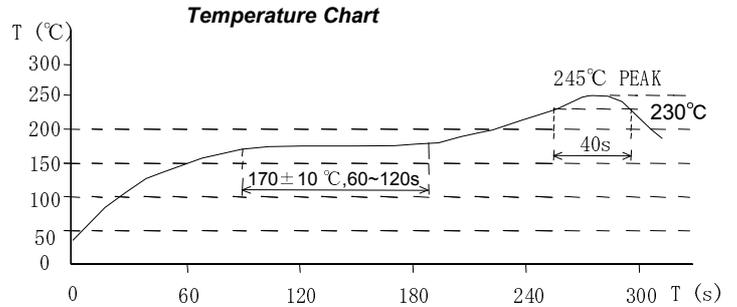
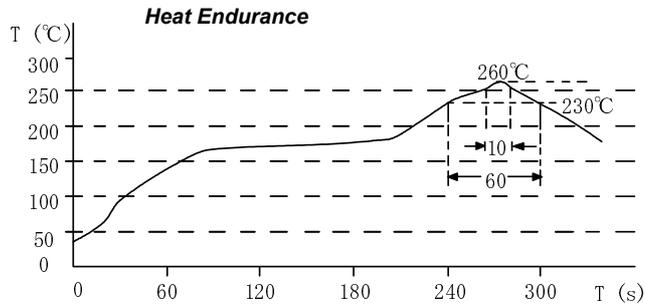
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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