

SMD Power Inductor CDH30D14D/LD



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 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.

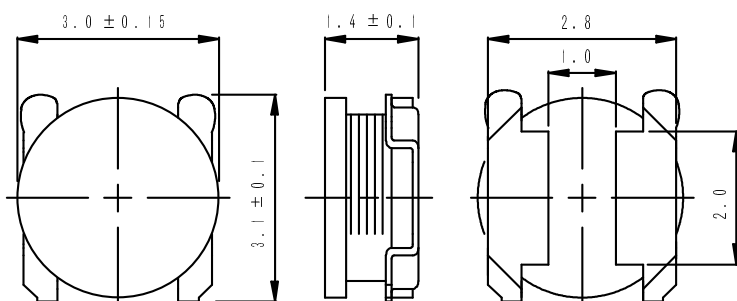
Packaging

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

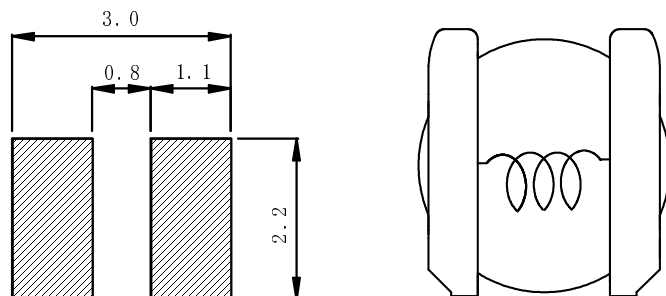
Applications

- Ideally used in 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)	
CDH30D14DLDF-1R0NC	A	1.0 ± 30%	40 ± 25%	1.62	1.42	2.38
CDH30D14DLDF-1R5NC	B	1.5 ± 30%	50 ± 25%	1.33	1.18	2.15
CDH30D14DLDF-2R2MC	C	2.2 ± 20%	61 ± 25%	1.13	0.96	1.93
CDH30D14DLDF-3R3MC	D	3.3 ± 20%	85 ± 25%	0.90	0.79	1.57
CDH30D14DLDF-4R7MC	E	4.7 ± 20%	120 ± 20%	0.78	0.68	1.15
CDH30D14DLDF-6R8MC	F	6.8 ± 20%	177 ± 20%	0.62	0.54	0.94
CDH30D14DLDF-100MC	G	10 ± 20%	268 ± 20%	0.52	0.46	0.83
CDH30D14DLDF-150MC	H	15 ± 20%	365 ± 20%	0.42	0.37	0.66
CDH30D14DLDF-220MC	J	22 ± 20%	590 ± 20%	0.36	0.32	0.52

※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.

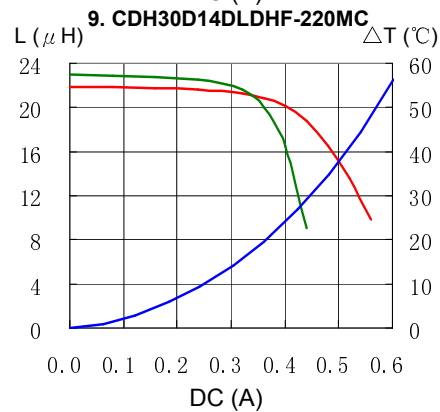
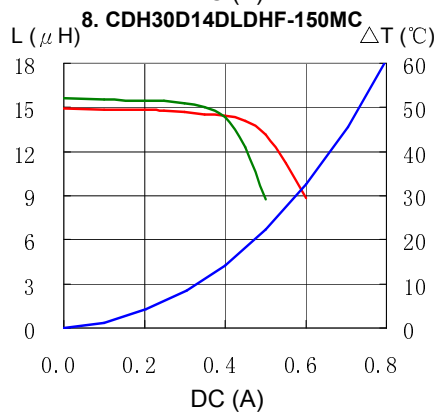
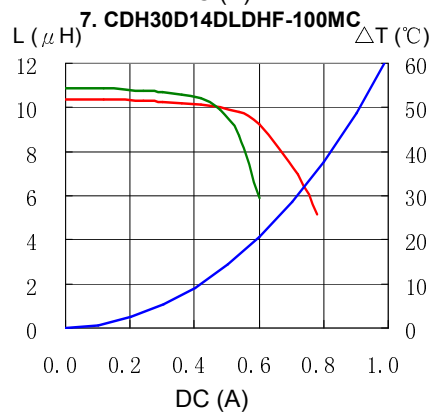
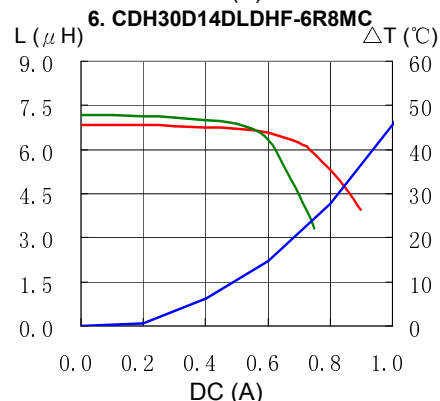
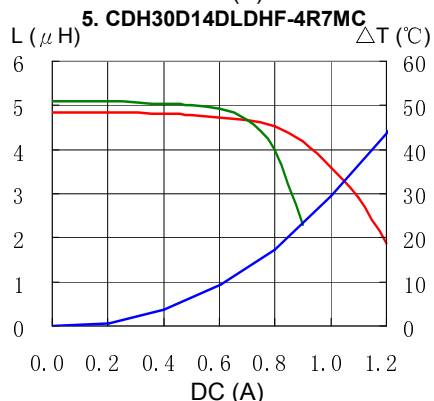
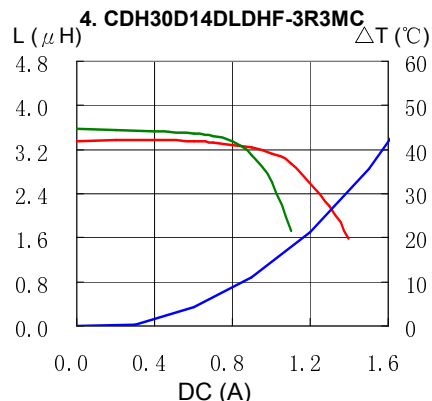
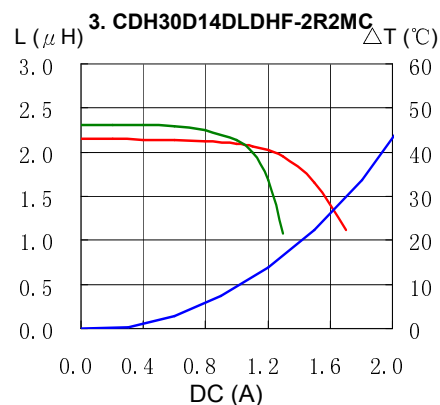
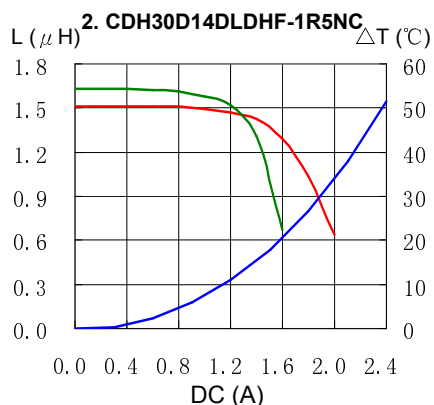
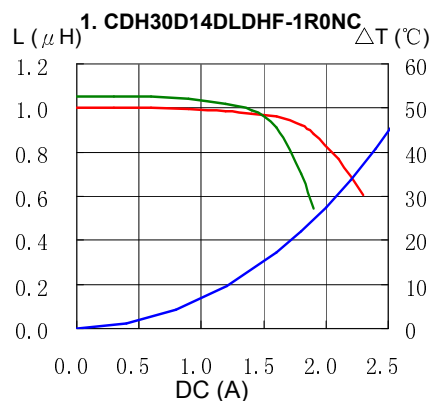
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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Saturation Current & Temperature Rise Graph

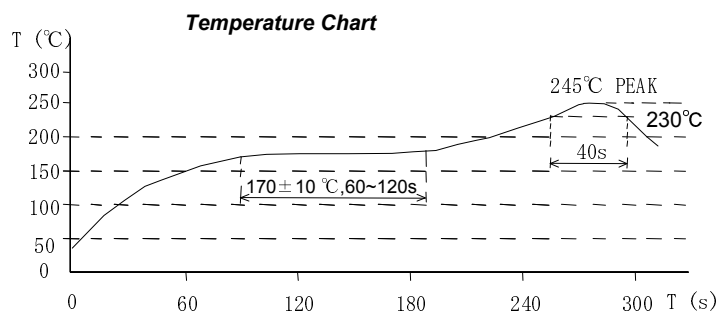
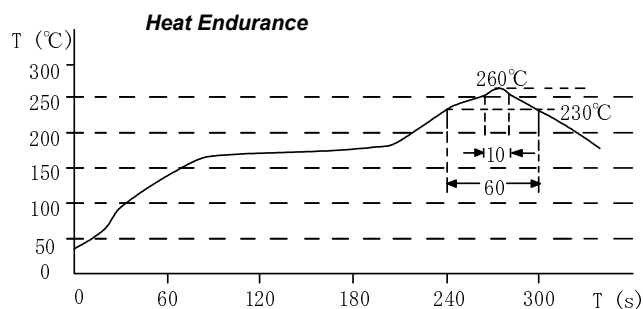
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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