

SMD Power Inductor CDH30D09D



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 1.0 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.

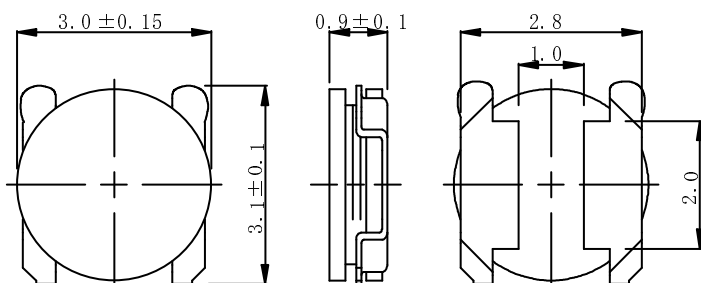
Packaging

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

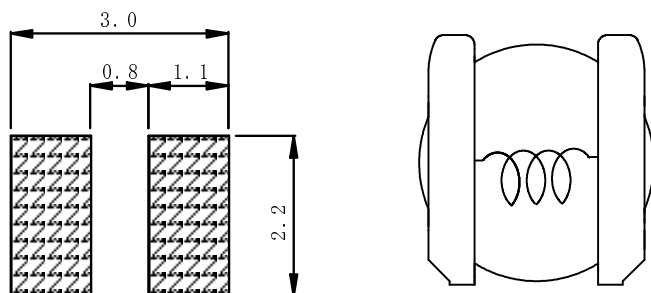
Applications

- Ideally used in 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)	
CDH30D09DNP-R90NC	A	0.90 ± 30%	49 ± 25%	1.42	1.10	2.15
CDH30D09DNP-1R2NC	B	1.2 ± 30%	62 ± 25%	1.25	1.05	1.83
CDH30D09DNP-1R5NC	C	1.5 ± 30%	71 ± 25%	1.14	0.93	1.70
CDH30D09DNP-2R2MC	D	2.2 ± 20%	94 ± 25%	0.96	0.78	1.42
CDH30D09DNP-3R3MC	E	3.3 ± 20%	149 ± 20%	0.76	0.62	1.20
CDH30D09DNP-4R7MC	F	4.7 ± 20%	201 ± 20%	0.64	0.53	0.97
CDH30D09DNP-6R8MC	G	6.8 ± 20%	336 ± 20%	0.53	0.45	0.72
CDH30D09DNP-100MC	H	10 ± 20%	441 ± 20%	0.45	0.37	0.63
CDH30D09DNP-150MC	J	15 ± 20%	707 ± 20%	0.37	0.32	0.50

※1. Measuring condition: at 100kHz.

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

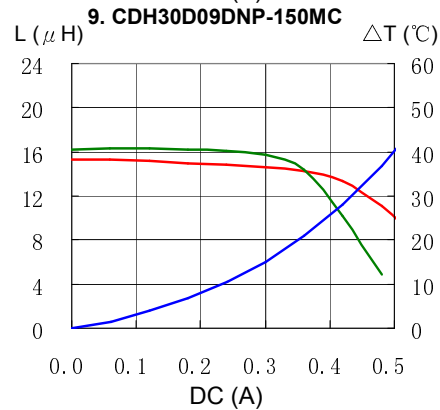
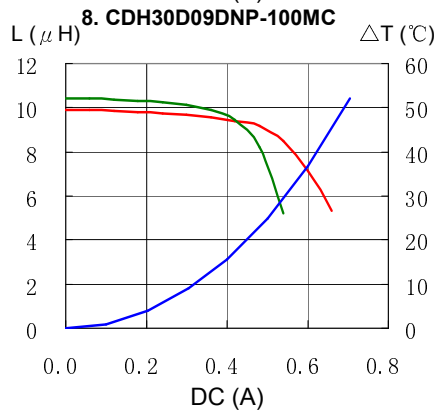
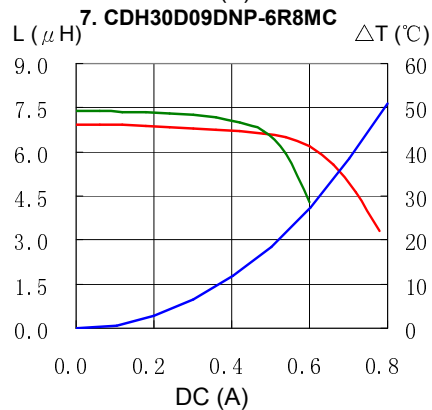
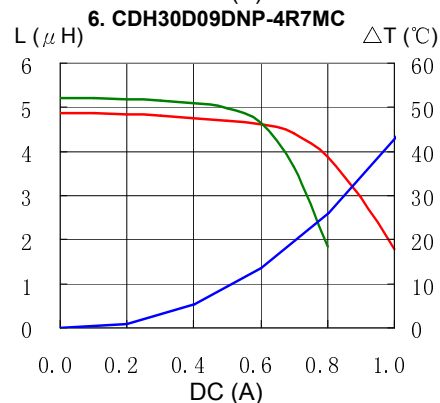
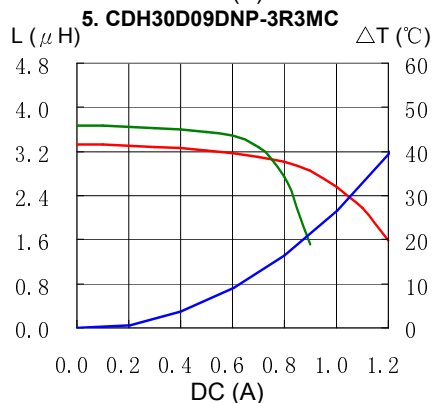
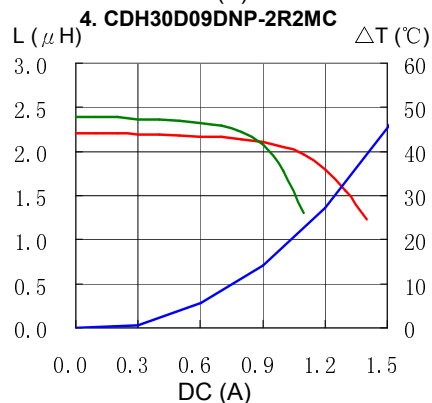
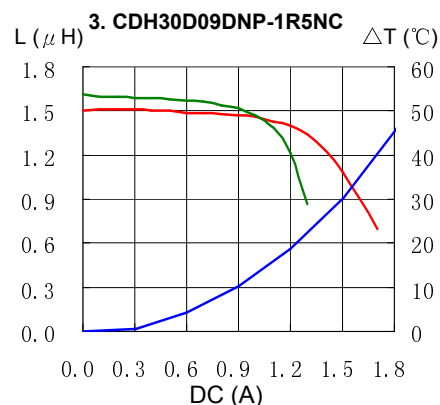
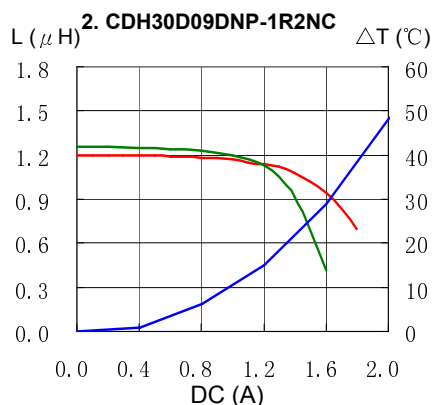
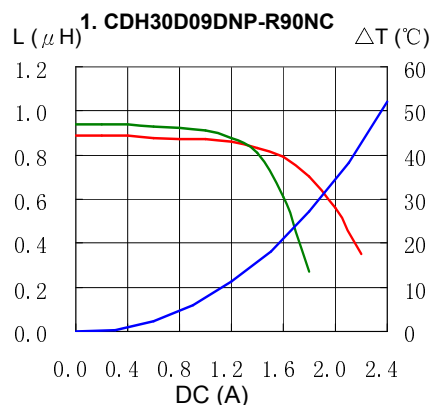
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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Saturation Current & Temperature Rise Graph

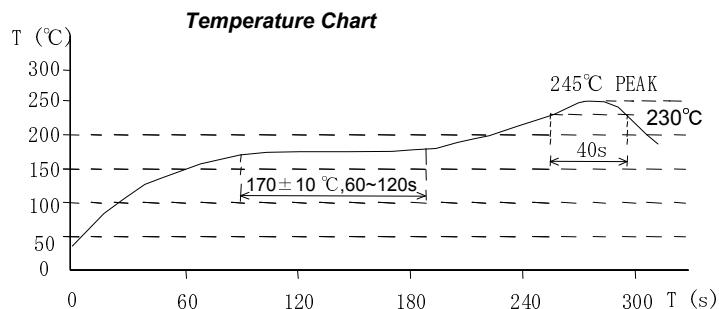
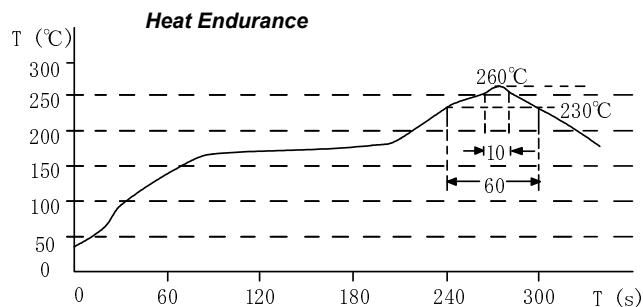
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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

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