

SMD Power Inductor CDH30D11D



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 1.2 mm Max.
- Product weight: 38mg(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.

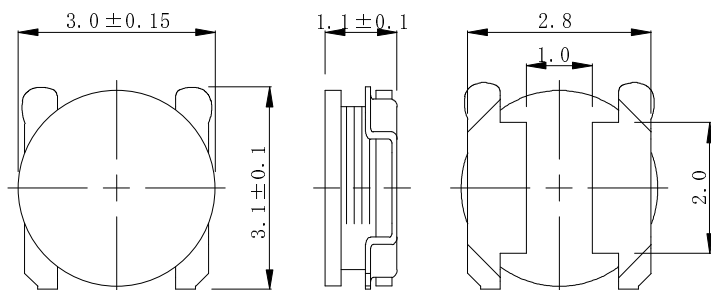
Packaging

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

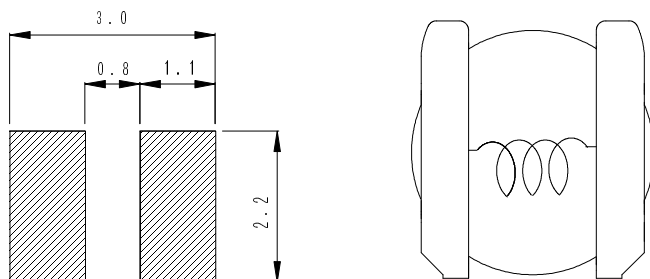
Applications

- 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 (μ H) [Within] ※1	D.C.R. (m Ω) [Within] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDH30D11DNP-1R0NC	A	1.0 ± 30%	43 ± 25%	1.89	1.54	2.35
CDH30D11DNP-1R5NC	C	1.5 ± 30%	59 ± 25%	1.60	1.31	1.91
CDH30D11DNP-2R2MC	E	2.2 ± 20%	87 ± 25%	1.30	1.08	1.70
CDH30D11DNP-3R3MC	G	3.3 ± 20%	122 ± 20%	1.03	0.86	1.24
CDH30D11DNP-4R7MC	J	4.7 ± 20%	182 ± 20%	0.88	0.70	1.05
CDH30D11DNP-6R8MC	L	6.8 ± 20%	254 ± 20%	0.72	0.58	0.90
CDH30D11DNP-100MC	N	10 ± 20%	440 ± 20%	0.60	0.49	0.62
CDH30D11DNP-150MC	Q	15 ± 20%	665 ± 20%	0.46	0.39	0.52
CDH30D11DNP-220MC	S	22 ± 20%	858 ± 20%	0.40	0.32	0.42

※1. Measuring condition: at 100kHz.

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

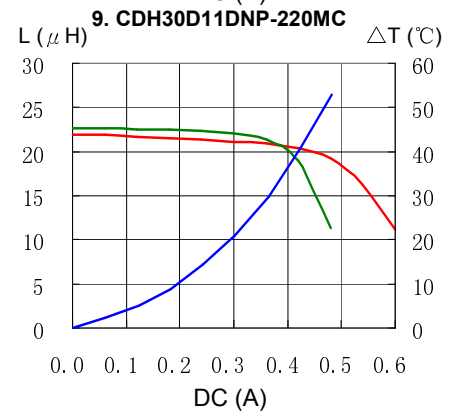
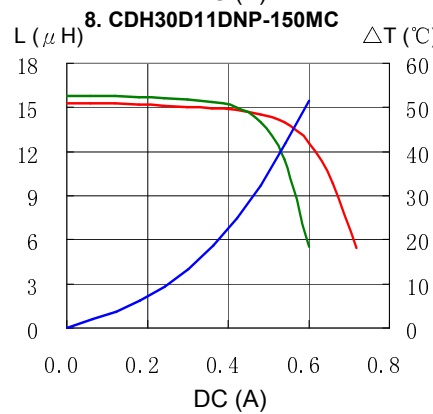
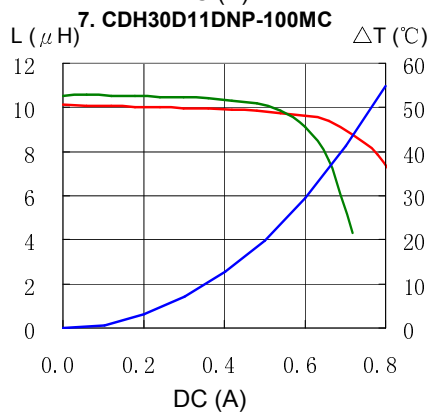
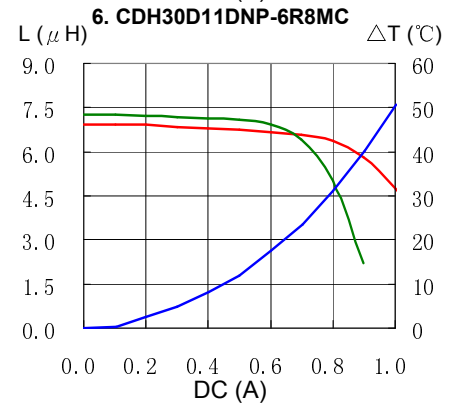
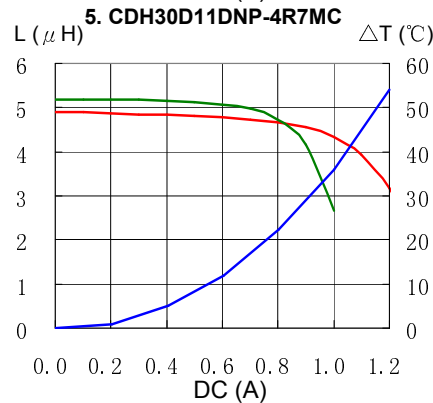
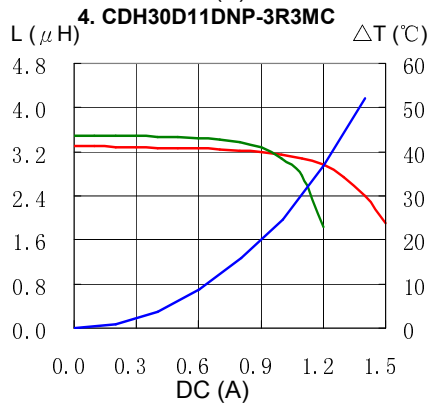
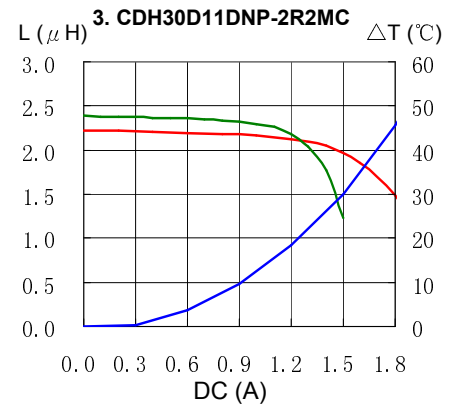
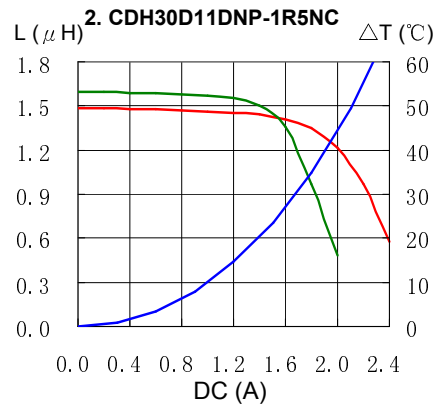
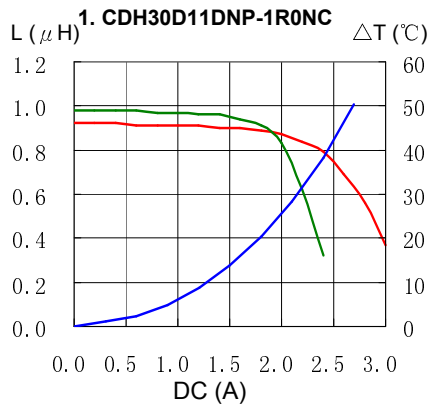
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

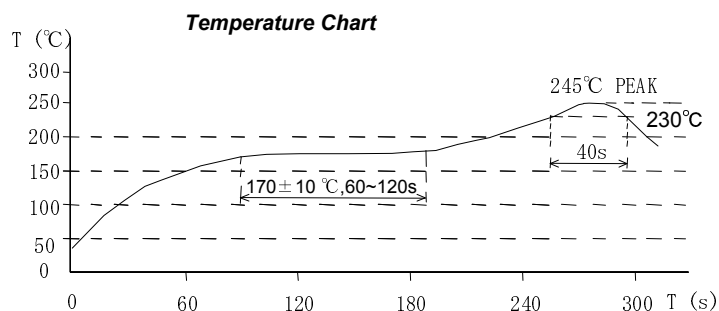
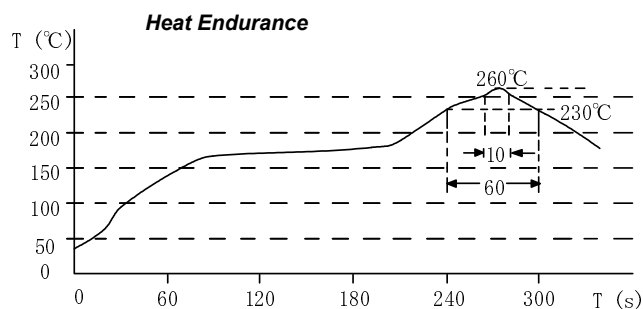
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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