

SMD Power Inductor CDH38D11D/LD



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.1 × 3.95 × 1.2mm Max.
- Product weight: 60mg(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.

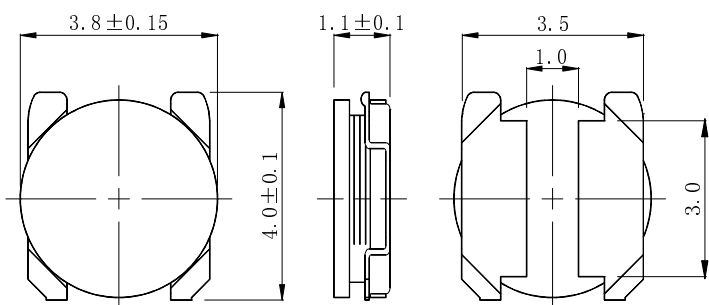
Packaging

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

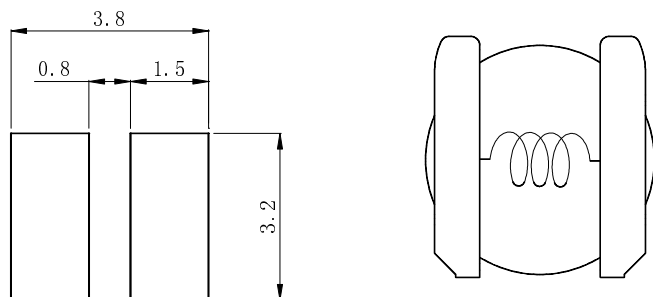
Applications

- 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 (at 20°C)	Temperature rise current (A) ※3
CDH38D11DLDNP-1R1MC	C	1.1 ± 20%	49 ± 25%	2.00	2.15
CDH38D11DLDNP-1R5MC	E	1.5 ± 20%	58 ± 25%	1.75	2.10
CDH38D11DLDNP-2R4MC	G	2.4 ± 20%	77 ± 25%	1.40	1.75
CDH38D11DLDNP-3R3MC	J	3.3 ± 20%	99 ± 25%	1.20	1.50
CDH38D11DLDNP-4R7MC	L	4.7 ± 20%	136 ± 20%	1.00	1.30
CDH38D11DLDNP-6R8MC	N	6.8 ± 20%	203 ± 20%	0.85	1.08
CDH38D11DLDNP-100MC	Q	10 ± 20%	310 ± 20%	0.70	0.88
CDH38D11DLDNP-150MC	S	15 ± 20%	460 ± 20%	0.56	0.65
CDH38D11DLDNP-220MC	U	22 ± 20%	690 ± 20%	0.47	0.56

※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.

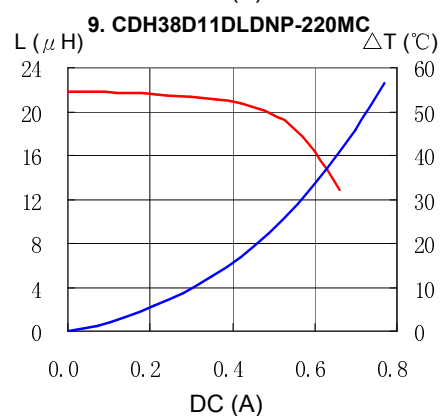
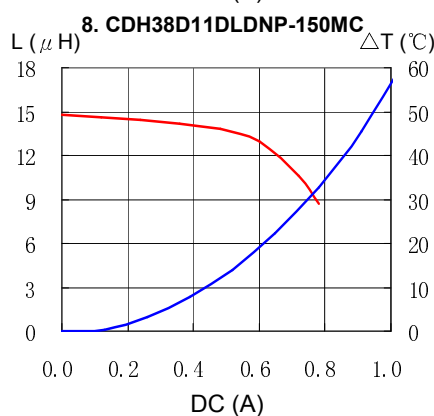
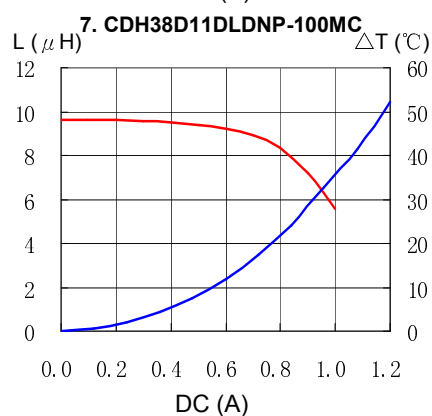
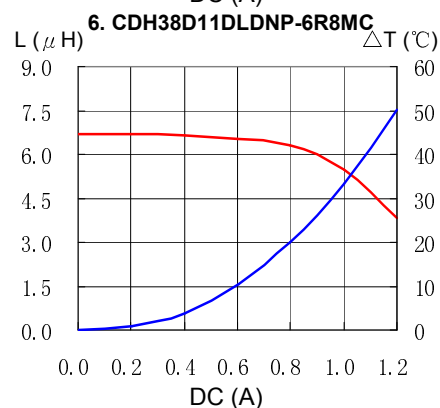
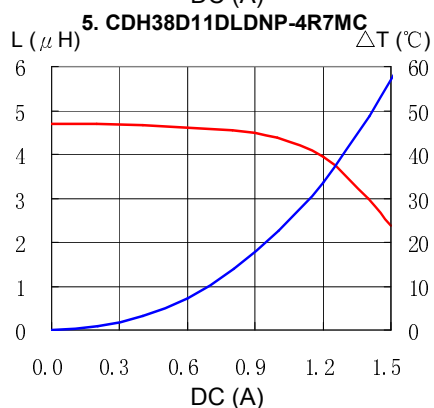
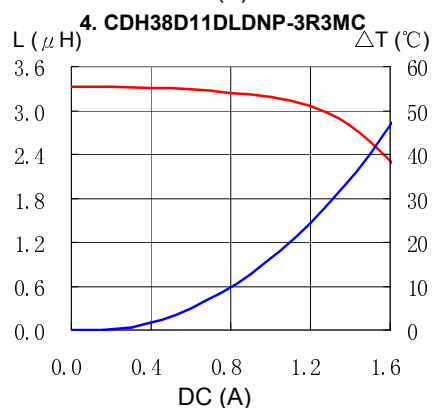
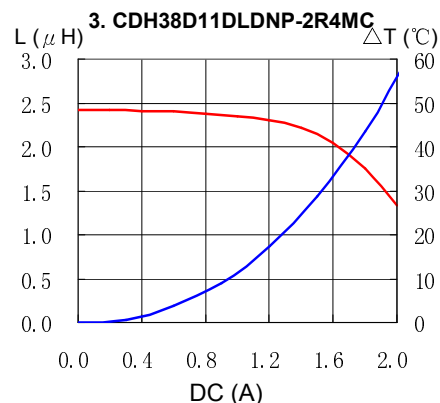
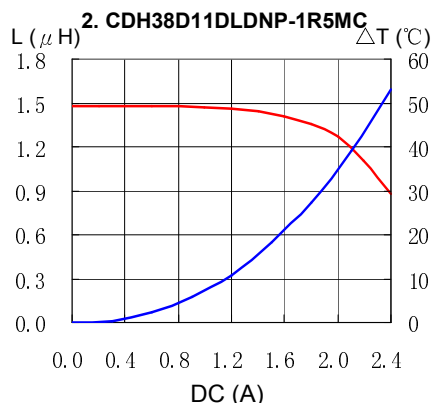
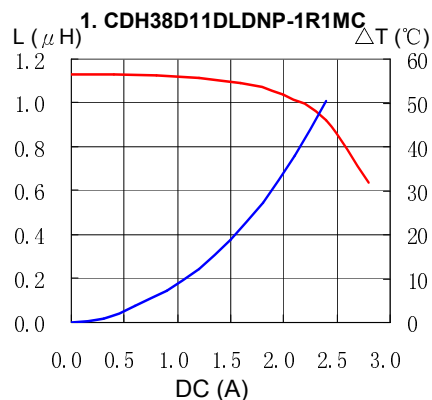
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

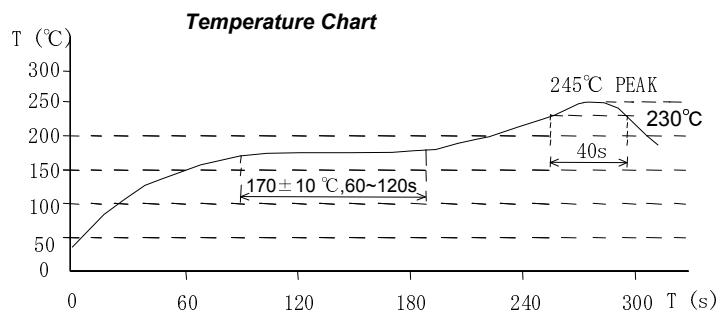
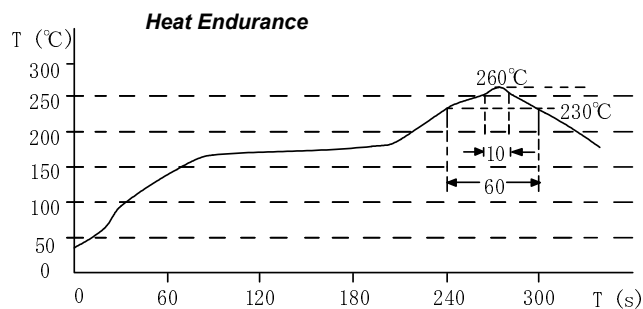
— L (20°C) — ΔT



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Solder Reflow Condition



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