

SMD Power Inductor CDH38D16D/MB



Under Development

RoHS

Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically semi-shielded.
- L × W × H: 4.1 × 3.95 × 1.8mm Max.
- Product weight: 80mg(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.

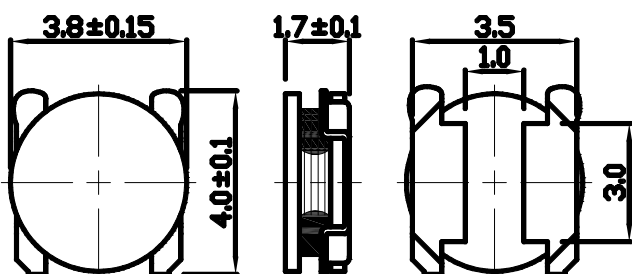
Packaging

- Carrier tape and reel packaging.

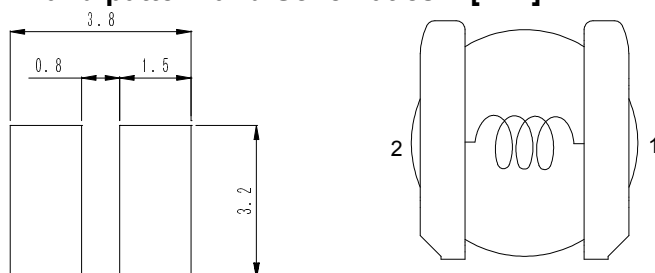
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/ DVC, HDD etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

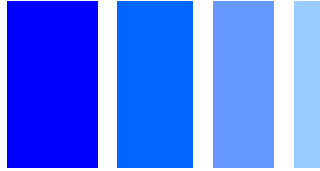
Part Name	stamp	Inductance (μ H) [within]※1	D.C.R. (m Ω) [within] (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				(20°C)	(105°C)	
CDH38D16DMBNP-1R2MC	A	1.2 ± 20%	27 ± 25%	2.64	2.24	3.75
CDH38D16DMBNP-1R5MC	C	1.5 ± 20%	31 ± 25%	2.40	2.03	3.40
CDH38D16DMBNP-2R2MC	E	2.2 ± 20%	41 ± 25%	2.00	1.70	3.00
CDH38D16DMBNP-3R3MC	G	3.3 ± 20%	59 ± 25%	1.64	1.38	2.40
CDH38D16DMBNP-4R7MC	J	4.7 ± 20%	85 ± 25%	1.36	1.15	1.95
CDH38D16DMBNP-6R8MC	L	6.8 ± 20%	118 ± 20%	1.14	0.94	1.65
CDH38D16DMBNP-100MC	N	10 ± 20%	176 ± 20%	0.94	0.78	1.30
CDH38D16DMBNP-150MC	Q	15 ± 20%	257 ± 20%	0.77	0.62	1.14
CDH38D16DMBNP-220MC	S	22 ± 20%	355 ± 20%	0.62	0.51	0.88
CDH38D16DMBNP-330MC	U	33 ± 20%	526 ± 20%	0.52	0.44	0.74

※1. Inductance 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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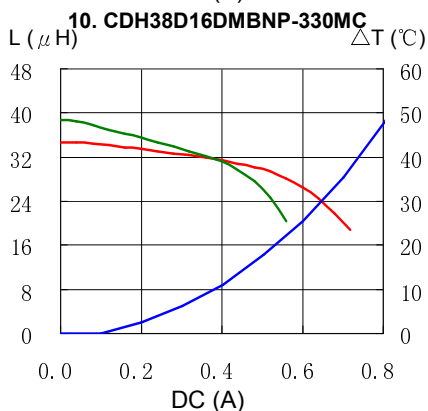
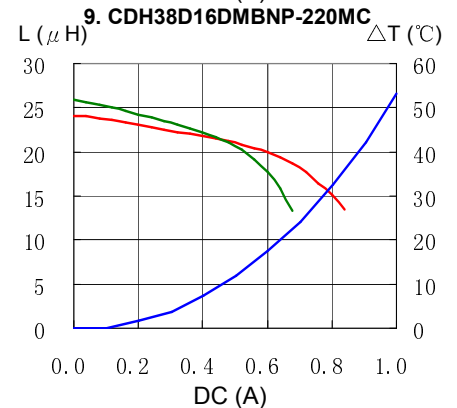
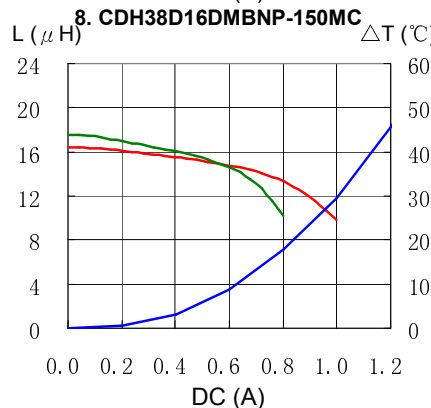
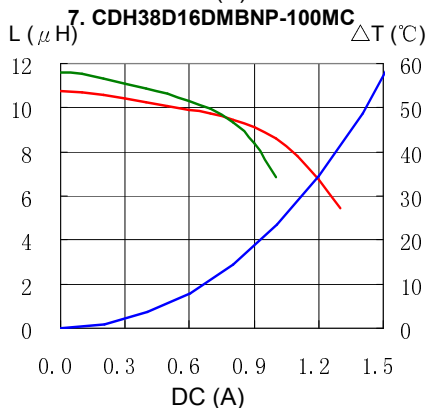
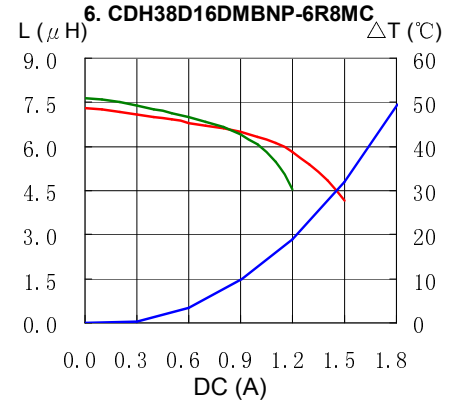
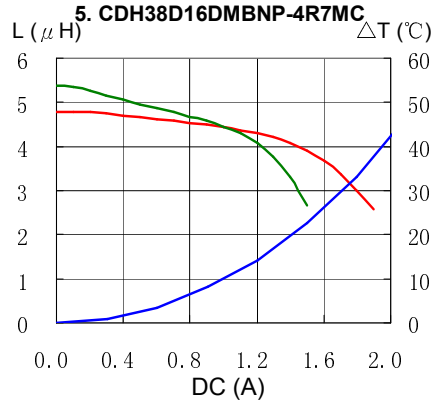
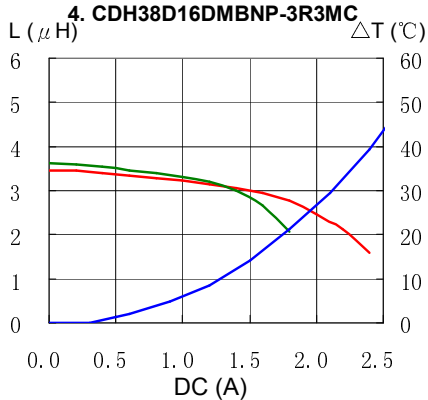
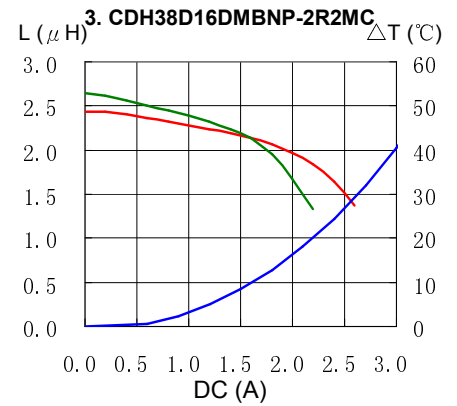
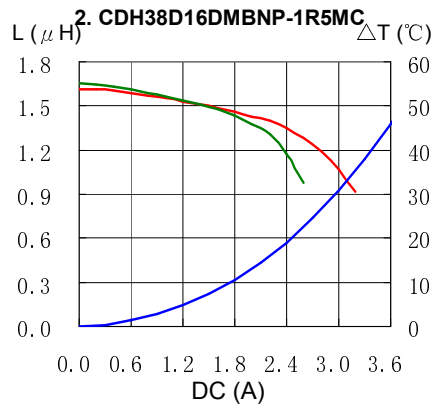
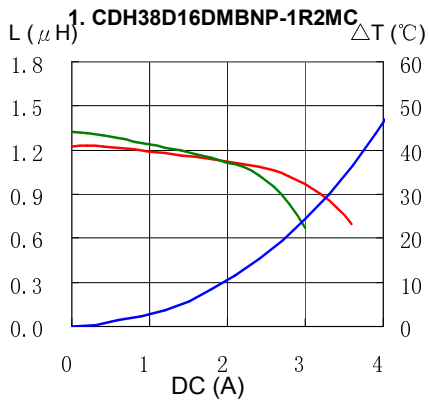


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

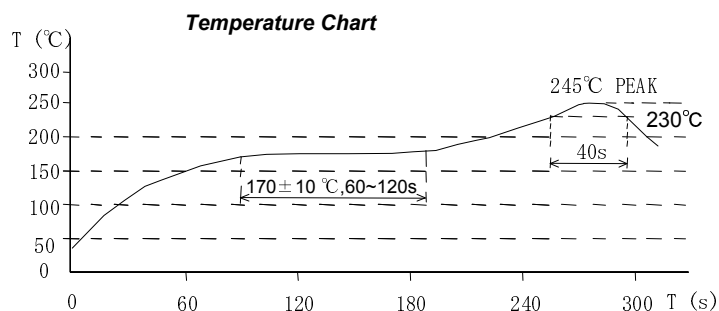
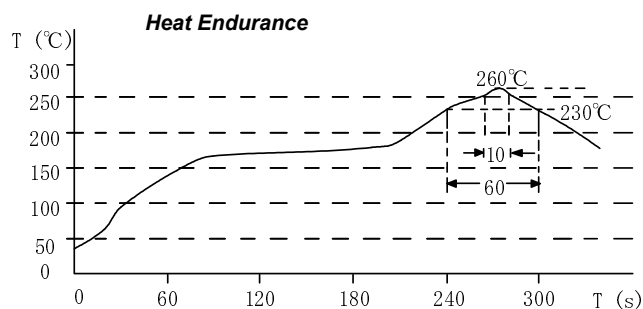


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Solder Reflow Condition



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