

SMD Power Inductor CDH38D16D/LD



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- 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.

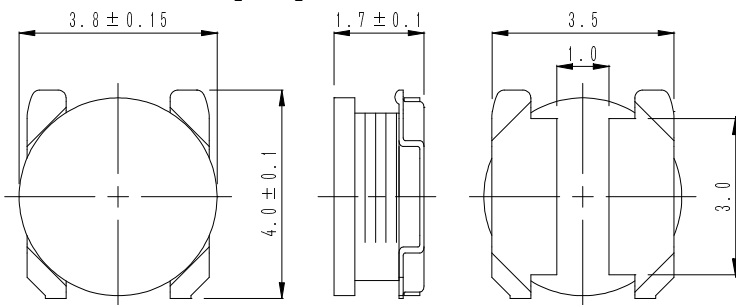
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 3000pcs per reel

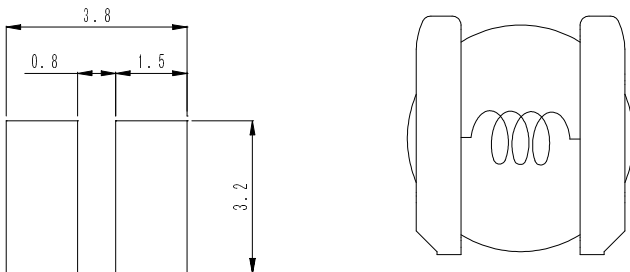
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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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)	
CDH38D16DLDF-1R0MC	A	1.0 \pm 20%	25 \pm 25%	2.40	1.90	3.12
CDH38D16DLDF-1R7MC	C	1.7 \pm 20%	33 \pm 25%	1.90	1.50	2.90
CDH38D16DLDF-2R0MC	E	2.0 \pm 20%	38 \pm 25%	1.70	1.35	2.70
CDH38D16DLDF-3R3MC	G	3.3 \pm 20%	53 \pm 25%	1.35	1.05	2.20
CDH38D16DLDF-4R7MC	J	4.7 \pm 20%	73 \pm 25%	1.15	0.90	1.85
CDH38D16DLDF-6R8MC	L	6.8 \pm 20%	108 \pm 20%	0.95	0.75	1.52
CDH38D16DLDF-100MC	N	10 \pm 20%	157 \pm 20%	0.76	0.60	1.26
CDH38D16DLDF-150MC	Q	15 \pm 20%	250 \pm 20%	0.64	0.50	1.02
CDH38D16DLDF-220MC	S	22 \pm 20%	340 \pm 20%	0.52	0.42	0.78
CDH38D16DLDF-330MC	U	33 \pm 20%	540 \pm 20%	0.42	0.34	0.64

※1. Measuring condition: at 100kHz.

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

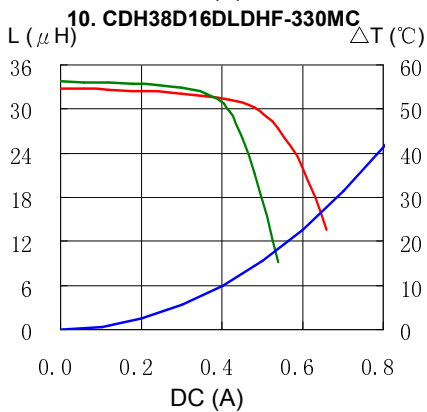
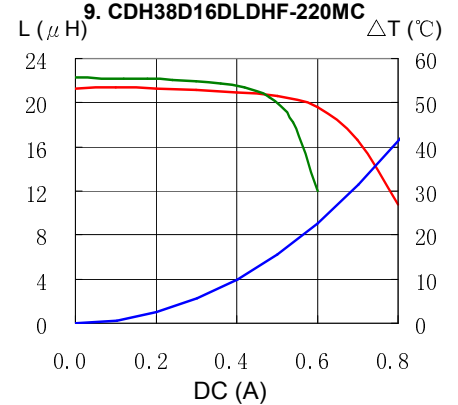
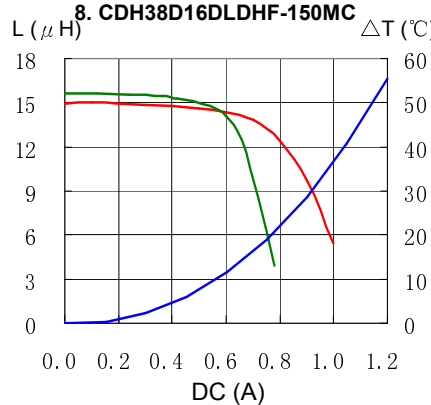
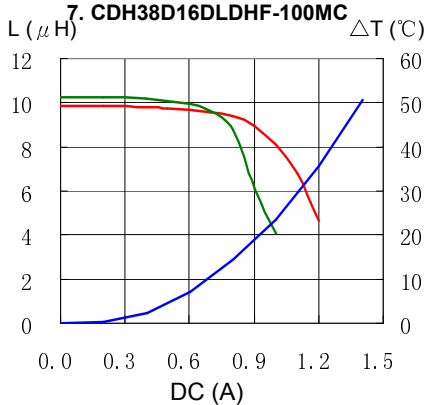
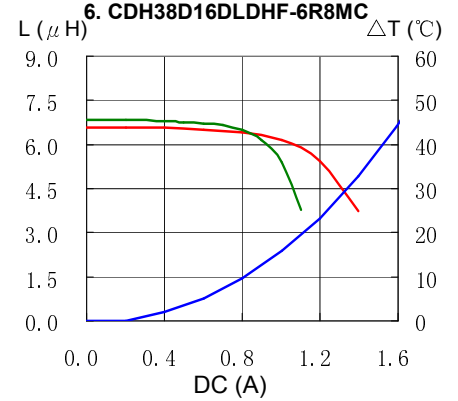
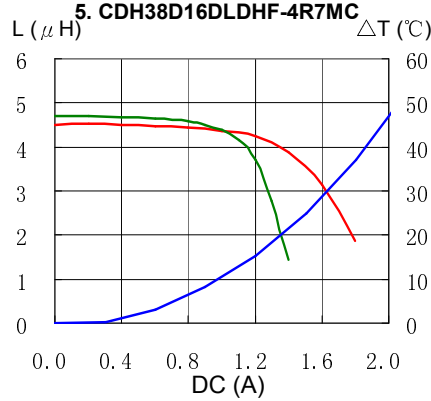
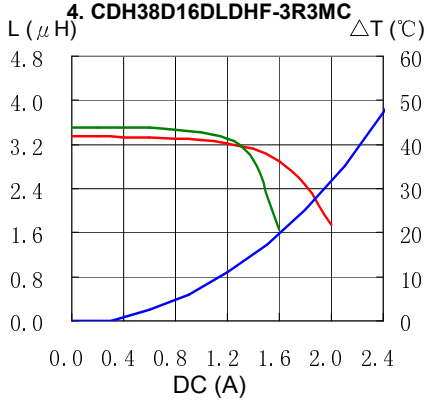
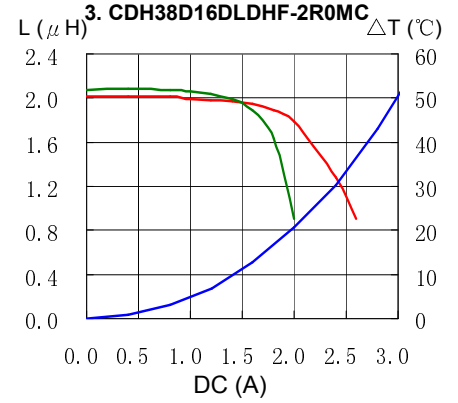
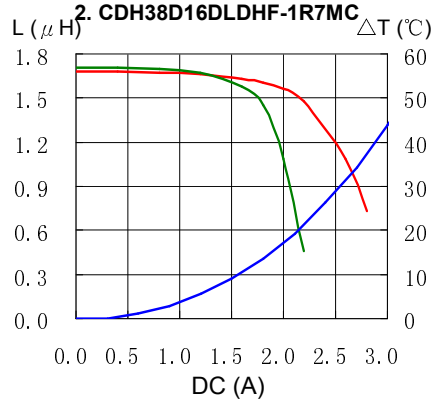
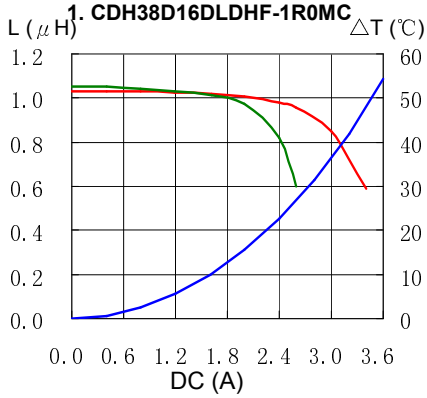
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

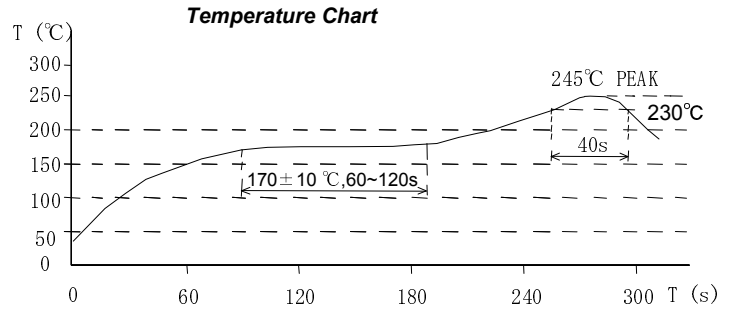
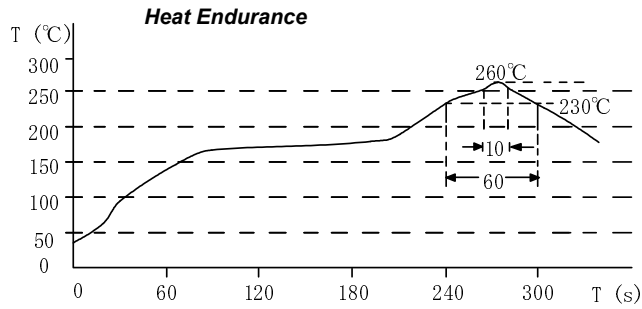
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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

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