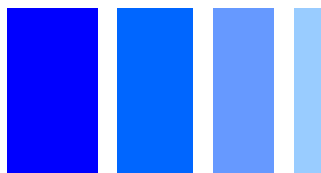


SMD Power Inductor CDH38D14D



sumida

Under Development



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.1 × 3.95 × 1.5mm Max.
- Product weight: 73mg(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.

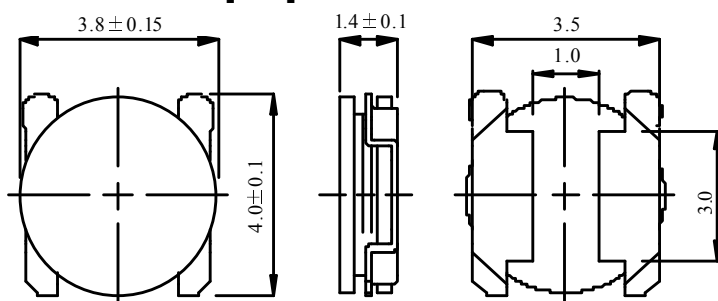
Packaging

- Carrier tape and reel packaging.

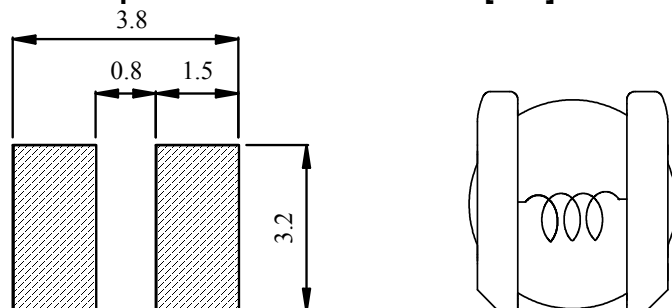
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

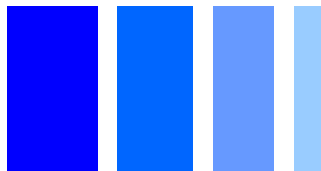
Part No.	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDH38D14DNP-1R2NC	A	1.2 ± 30%	28 ± 25%	2.40	3.35
CDH38D14DNP-1R5NC	B	1.5 ± 30%	34 ± 25%	2.15	3.08
CDH38D14DNP-2R2NC	E	2.2 ± 30%	51 ± 25%	1.70	2.38
CDH38D14DNP-3R3NC	G	3.3 ± 30%	76 ± 25%	1.40	1.88
CDH38D14DNP-4R7MC	J	4.7 ± 20%	100 ± 20%	1.20	1.61
CDH38D14DNP-6R8MC	L	6.8 ± 20%	143 ± 20%	0.96	1.45
CDH38D14DNP-100MC	N	10 ± 20%	200 ± 20%	0.78	1.17
CDH38D14DNP-150MC	Q	15 ± 20%	345 ± 20%	0.64	0.88
CDH38D14DNP-220MC	S	22 ± 20%	490 ± 20%	0.54	0.68

※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 $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

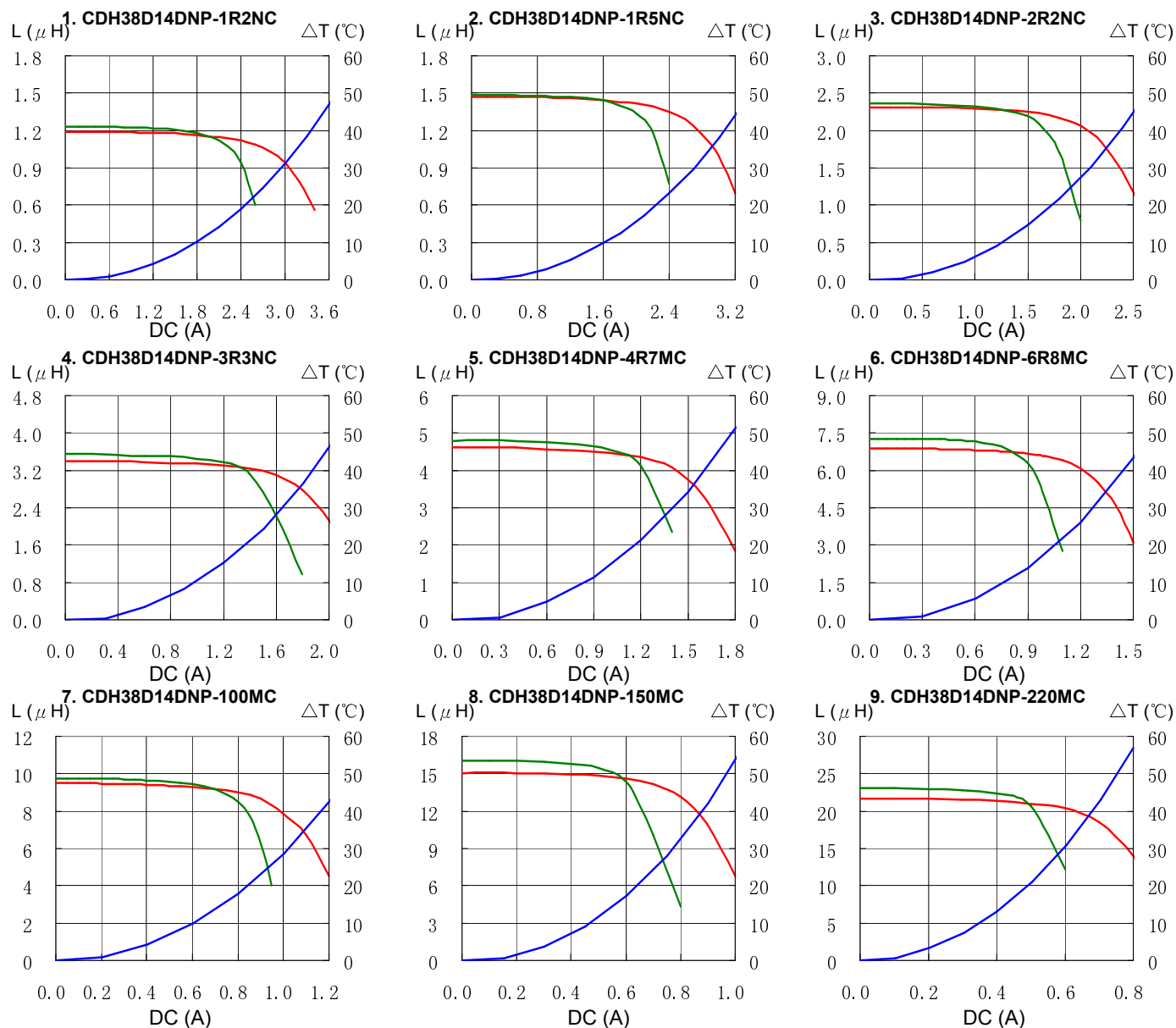
SMD Power Inductor CDH38D14D



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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

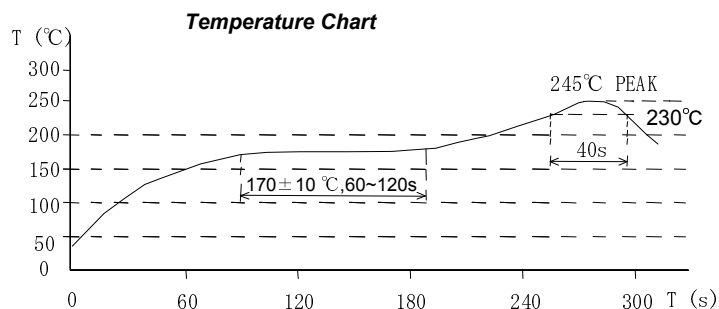
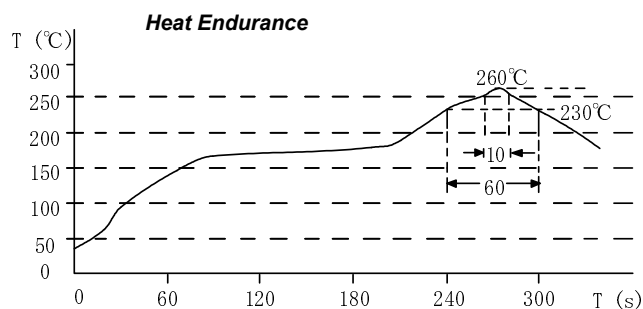


SMD Power Inductor CDH38D14D



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Solder Reflow Condition



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