

SMD Power Inductor CDH20D08



Under Development

RoHS

Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically Unshielded.
- L × W × H: 2.2 × 2.2 x0.9 mm Max.
- Product weight: 10.5mg(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.

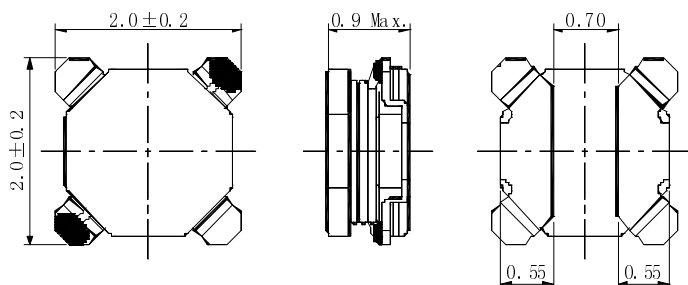
Packaging

- Carrier tape and reel packaging

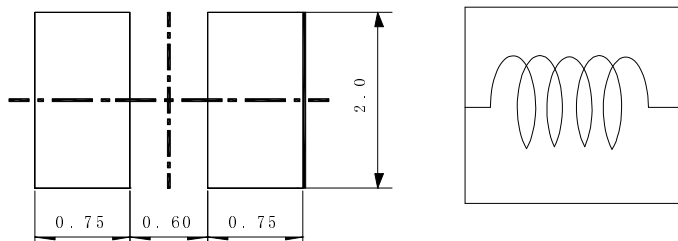
Applications

- Ideally used in smart phone and other portable devices.

Dimension - [mm]



Land pattern and Schematics - [mm]



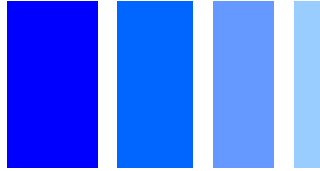
Electrical Characteristics

Part name	Stamp	Inductance [μH] 1MHz	D.C.R.(Ω) [Max.] (at 20°C)	Saturation current (A) ※1 (at 20°C)	Temperature rise current (A) ※2
CDH20D08HF-R47NC	A	0.47 ± 30%	85m (67m)	1.89 (2.36)	1.44
CDH20D08HF-R68NC	B	0.68 ± 30%	134m (107m)	1.48 (1.85)	1.15
CDH20D08HF-1R0NC	C	1.0 ± 30%	182m (146m)	1.15 (1.44)	0.78
CDH20D08HF-1R5NC	D	1.5 ± 30%	275m (220m)	0.94 (1.18)	0.66
CDH20D08HF-2R2MC	E	2.2 ± 20%	368m (295m)	0.80 (1.00)	0.61
CDH20D08HF-3R3MC	F	3.3 ± 20%	585m (468m)	0.67 (0.84)	0.46
CDH20D08HF-4R7MC	G	4.7 ± 20%	700m (560m)	0.61 (0.76)	0.44
CDH20D08HF-6R8MC	J	6.8 ± 20%	1.011 (808m)	0.50 (0.63)	0.35
CDH20D08HF-8R2MC	K	8.2 ± 20%	1.215 (1.012)	0.45 (0.56)	0.29

※1. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※2. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

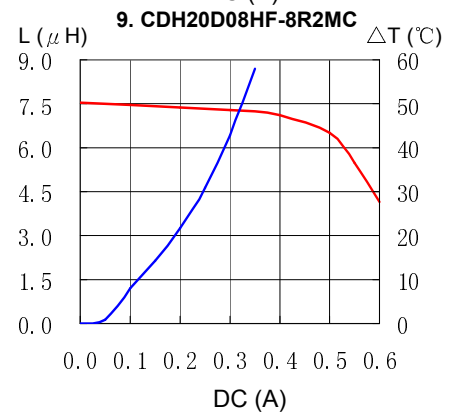
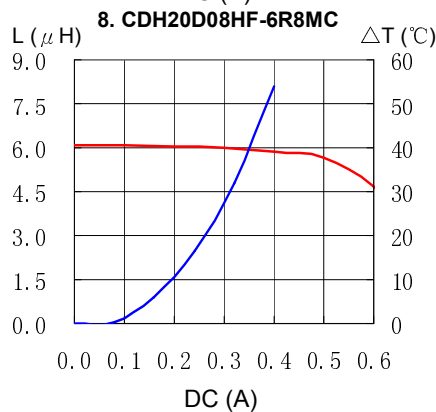
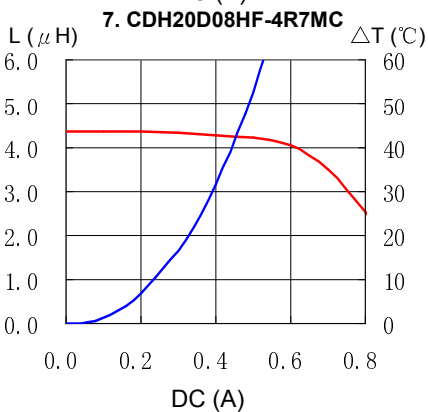
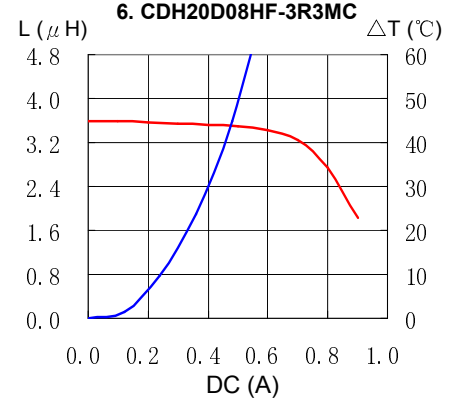
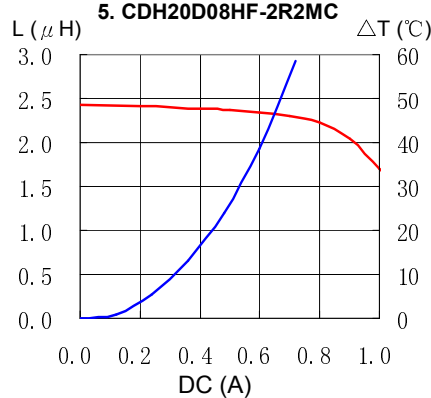
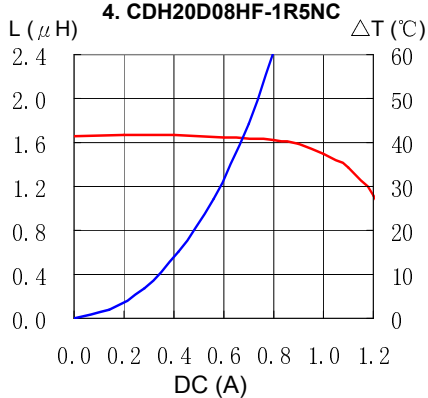
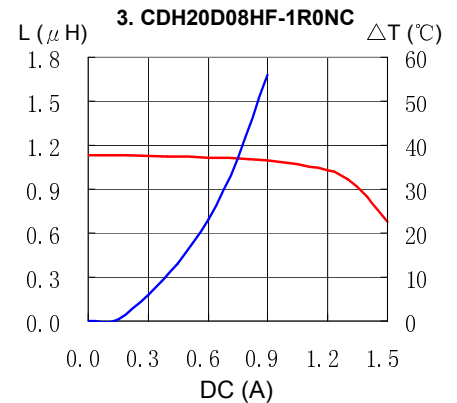
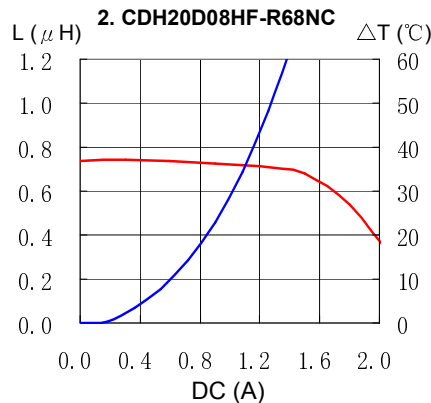
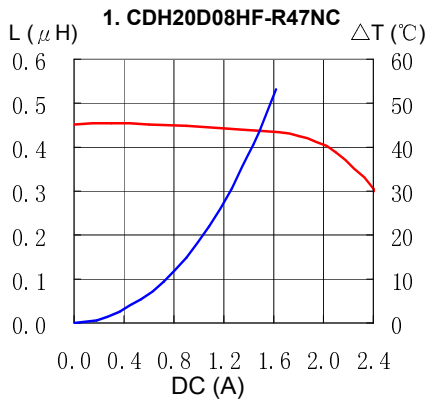
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



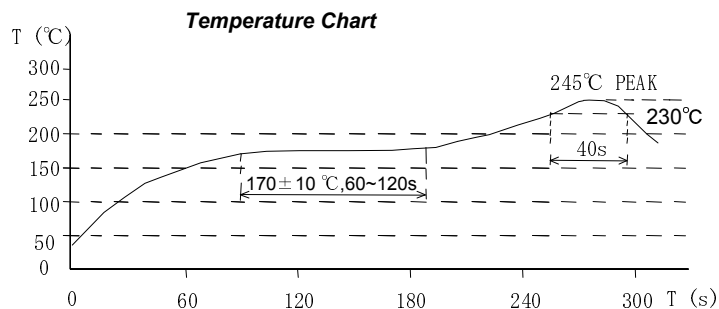
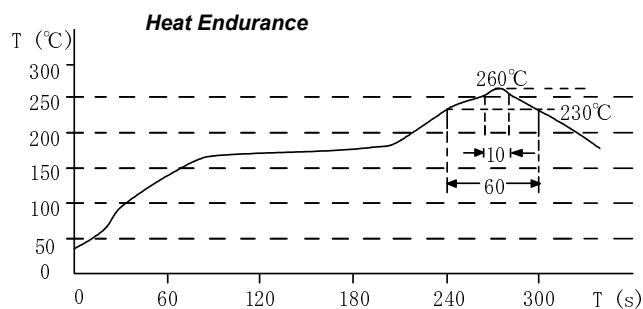
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Solder Reflow Condition



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