

SMD Power Inductor CDH20D08



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically Unshielded.
- L × W × H: 2.2 × 2.2 × 0.9 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.

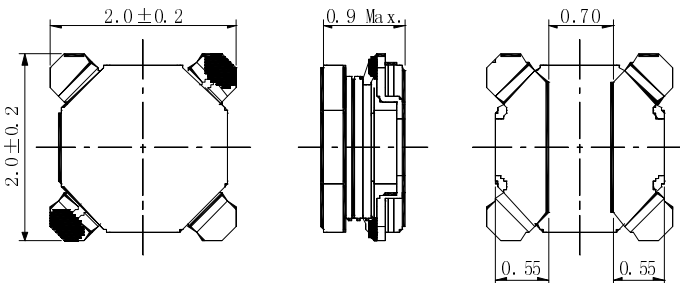
Packaging

- Carrier tape and reel packaging

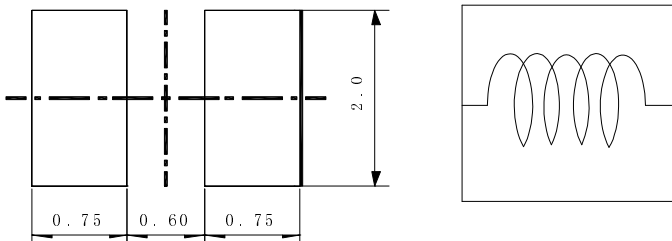
Applications

- Ideally used in smart phone and other portable devices.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

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

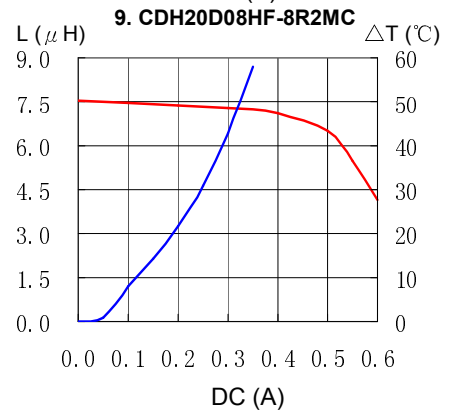
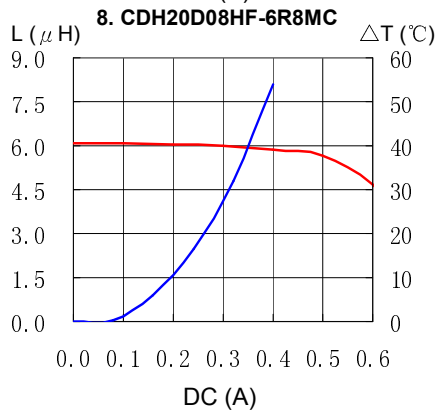
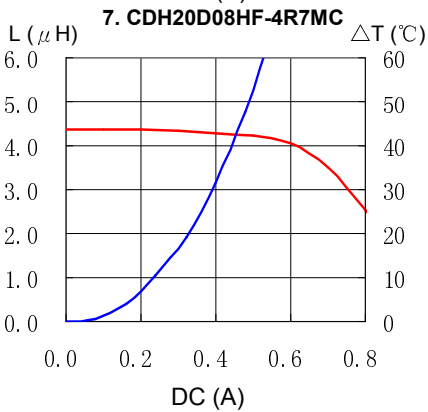
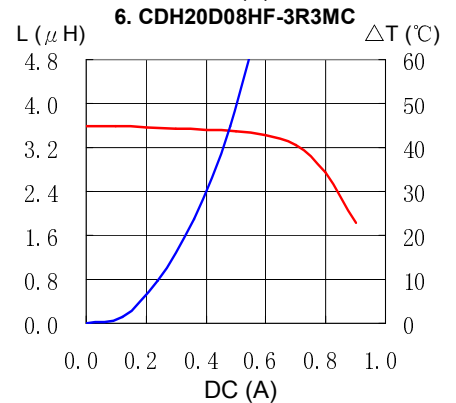
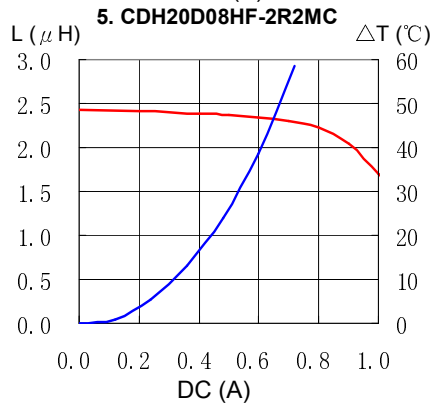
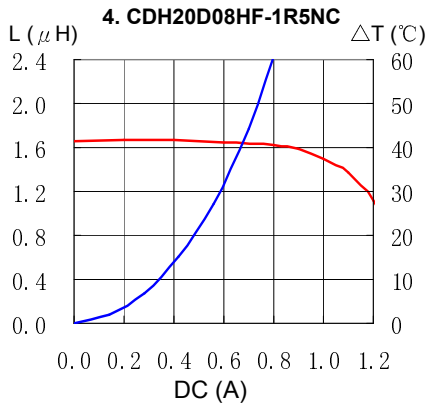
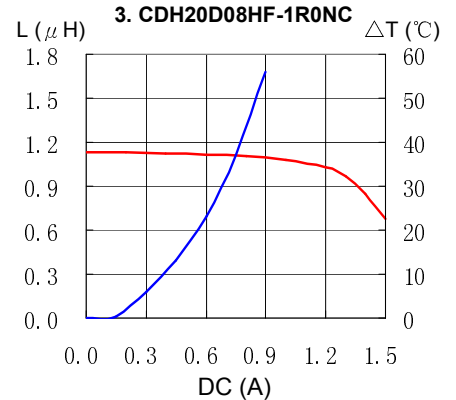
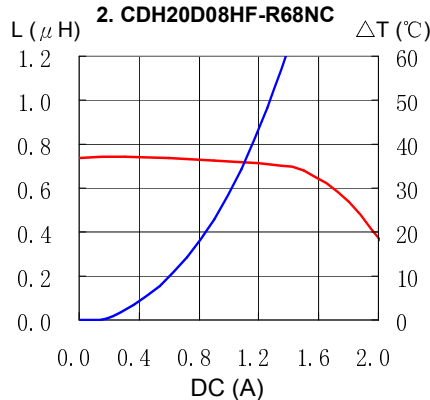
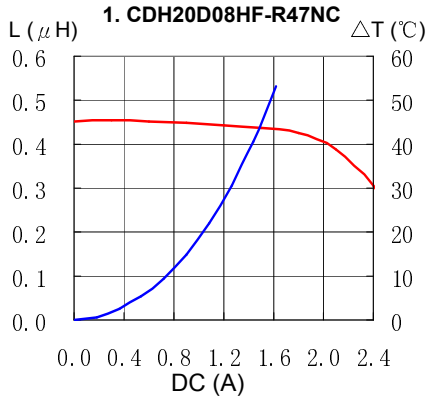
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

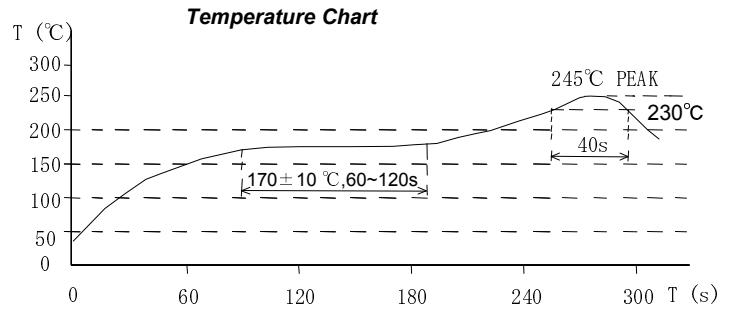
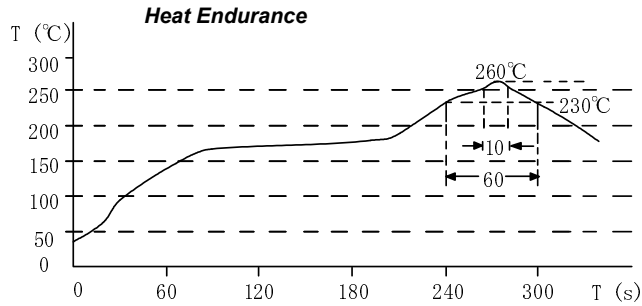
— L (20°C) — ΔT



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Solder Reflow Condition



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