

SMD Power Inductor CDH25D09



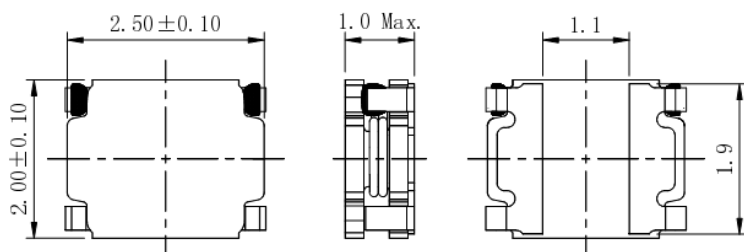
**Halogen
Free**



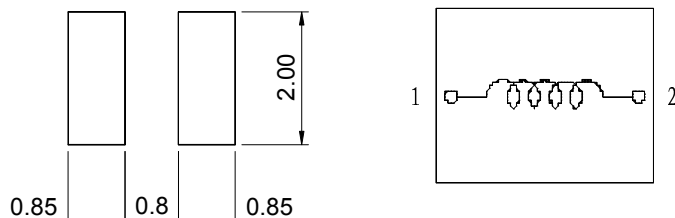
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.6 × 2.1 × 1.0 mm Max.
- Product weight: 17.0 mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



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 Mobile Phone,PDA,MP3,DSC/DVC,HDD,ets as DC-DC converter inductor.

Electrical Characteristics

Part Name	Stamp	Inductance (μ H) 1MHz	D.C.R.(Ω)Max. (Typ.) (at 20°C)	Saturation Current (A) ※1 (at 20°C)	Temperature Rise Current (A) ※2
CDH25D09HF-R47NC	A	0.47 $\pm$ 30%	57.4m(45.9m)	2.47(2.90)	2.21
CDH25D09HF-R68NC	B	0.68 $\pm$ 30%	70.5m(56.4m)	2.17(2.55)	2.06
CDH25D09HF-1R0NC	C	1.0 $\pm$ 30%	0.112(89.1m)	1.65(1.94)	1.53
CDH25D09HF-1R5NC	D	1.5 $\pm$ 30%	0.154(0.123)	1.40(1.65)	1.36
CDH25D09HF-2R2MC	E	2.2 $\pm$ 20%	0.233(0.186)	1.15(1.35)	1.13
CDH25D09HF-3R3MC	F	3.3 $\pm$ 20%	0.310(0.248)	0.95(1.12)	0.97
CDH25D09HF-4R7MC	G	4.7 $\pm$ 20%	0.463(0.370)	0.78(0.92)	0.8
CDH25D09HF-6R8MC	J	6.8 $\pm$ 20%	0.675(0.540)	0.65(0.76)	0.51
CDH25D09HF-100MC	K	10.0 $\pm$ 20%	0.923(0.738)	0.54(0.63)	0.45

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

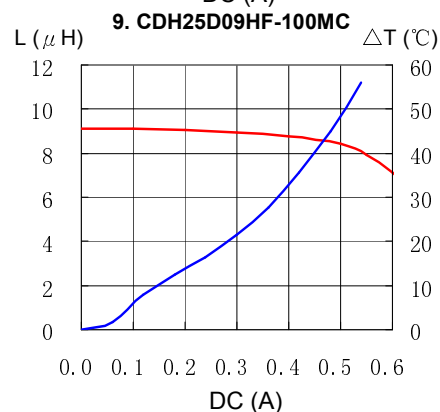
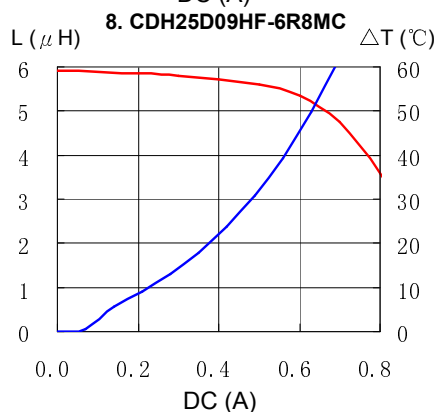
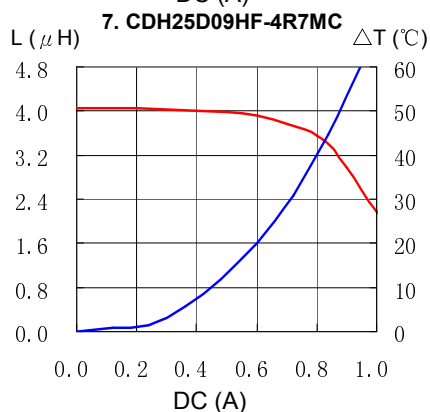
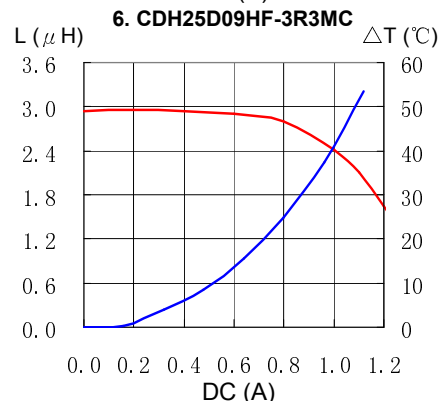
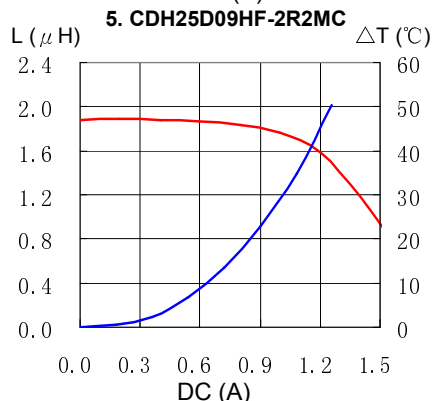
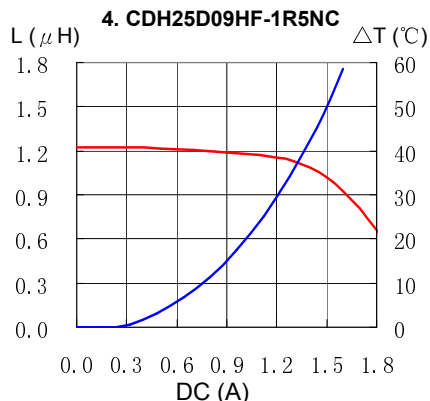
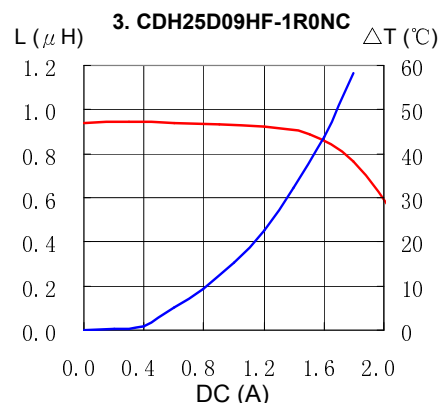
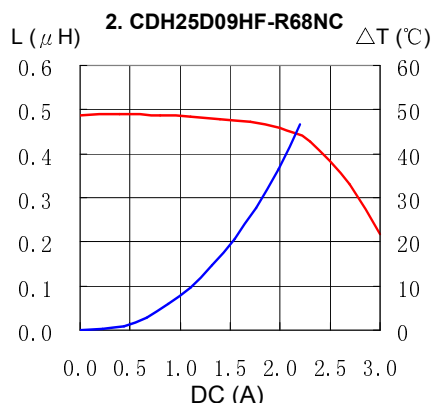
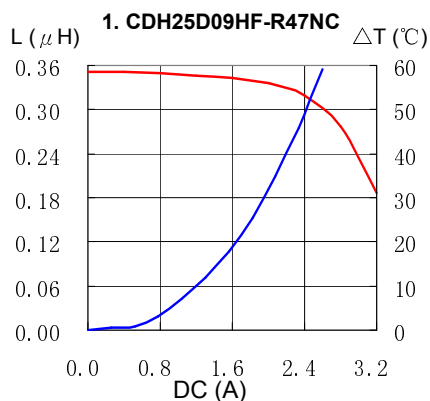
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

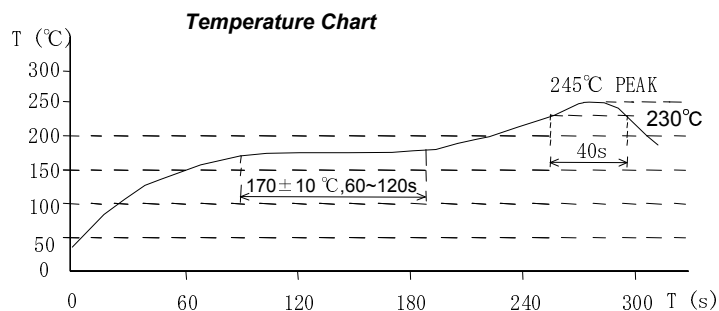
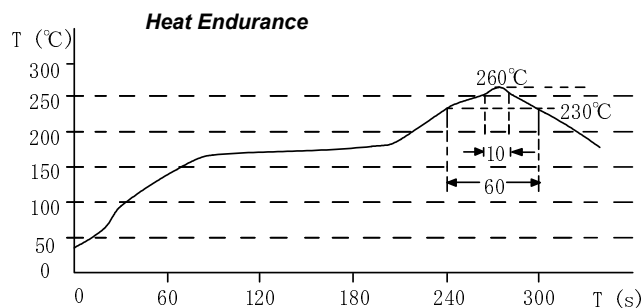
— L (20°C) — ΔT



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Solder Reflow Condition



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