

SMD Power Inductor CDH25D11



RoHS

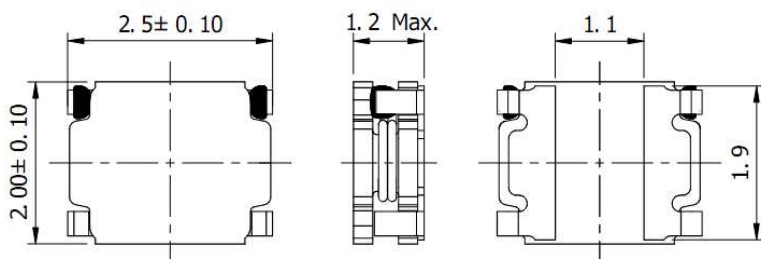
Halogen
Free



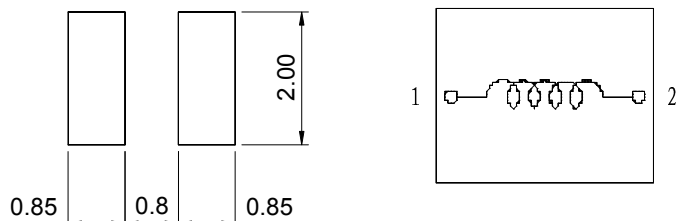
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.6 × 2.1 × 1.2 mm Max.
- Product weight: 20.0 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, etc as DC-DC converter inductors.

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
CDH25D11HF-R47NC	A	0.47 ± 30%	67m(54m)	3.40(4.00)	1.89
CDH25D11HF-R68NC	K	0.68 ± 30%	95m(76m)	2.67(3.15)	1.58
CDH25D11HF-1R0NC	B	1.0 ± 30%	0.106(85m)	2.47(2.90)	1.55
CDH25D11HF-1R5NC	C	1.5 ± 30%	0.156(0.125)	2.00(2.38)	1.32
CDH25D11HF-2R2MC	D	2.2 ± 20%	0.184(0.147)	1.63(1.92)	1.17
CDH25D11HF-3R3MC	E	3.3 ± 20%	0.288(0.230)	1.40(1.63)	0.92
CDH25D11HF-4R7MC	F	4.7 ± 20%	0.421(0.337)	1.15(1.35)	0.75
CDH25D11HF-6R8MC	G	6.8 ± 20%	0.611(0.489)	0.95(1.12)	0.57
CDH25D11HF-100MC	J	10.0 ± 20%	0.978(0.782)	0.75(0.88)	0.45

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

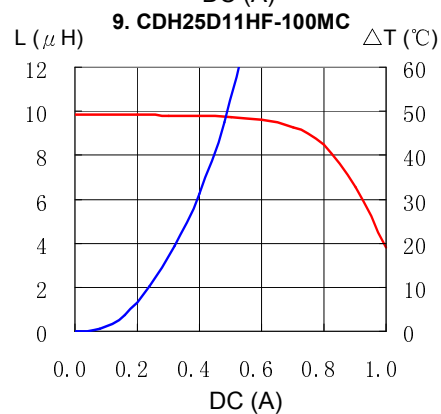
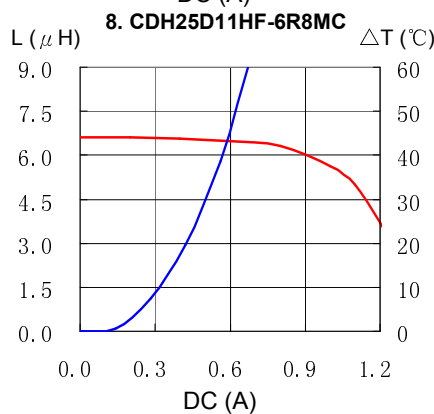
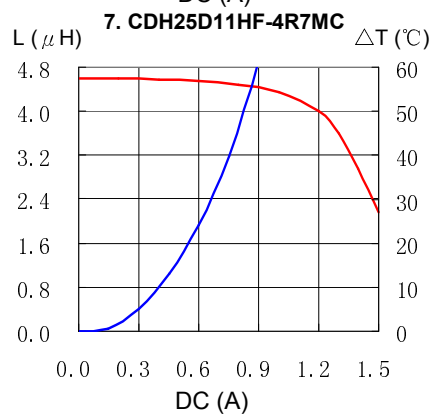
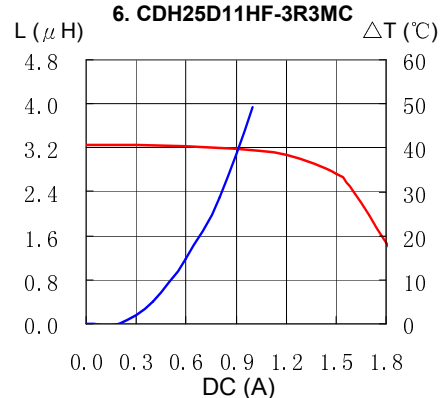
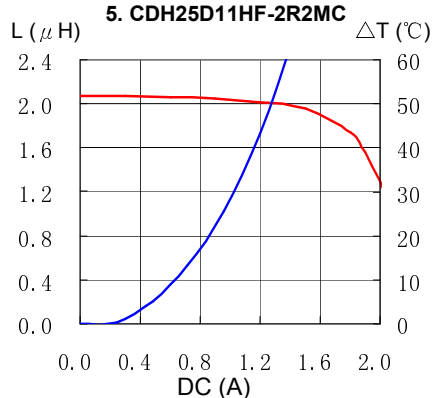
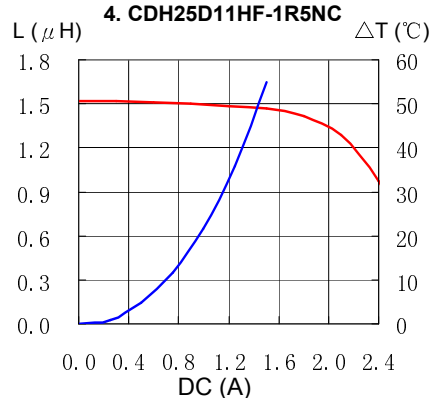
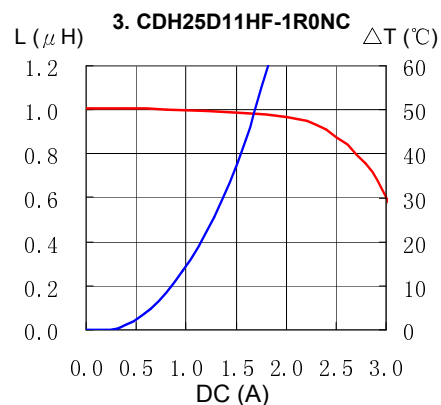
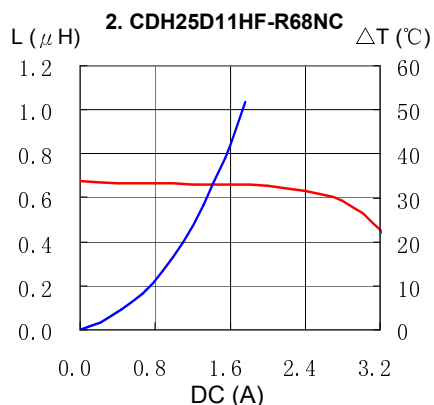
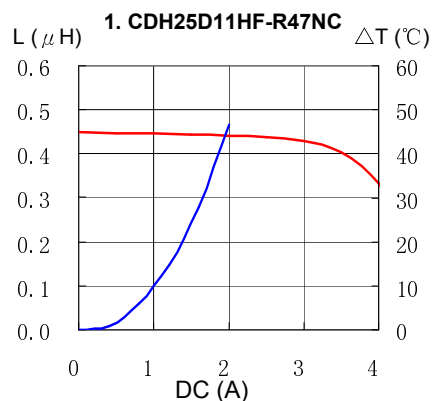
※2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

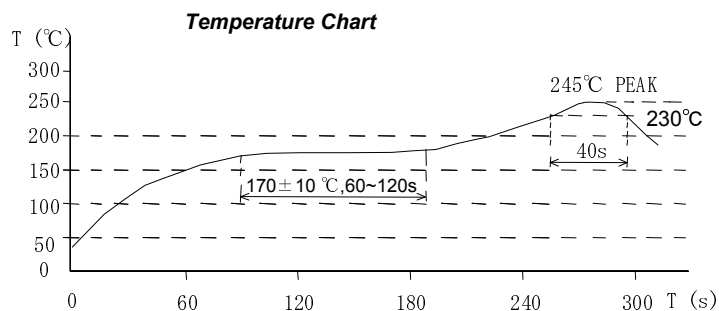
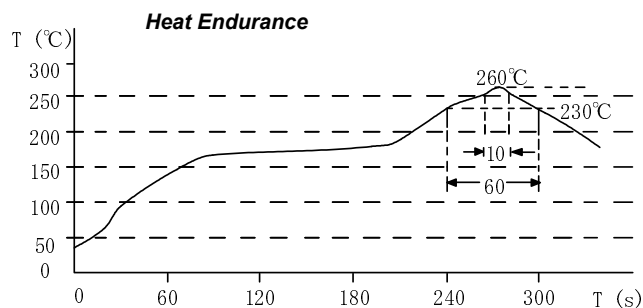
— L (20°C) — ΔT



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Solder Reflow Condition



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