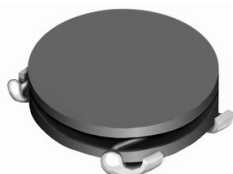


SMD Power Inductor CDH36D07



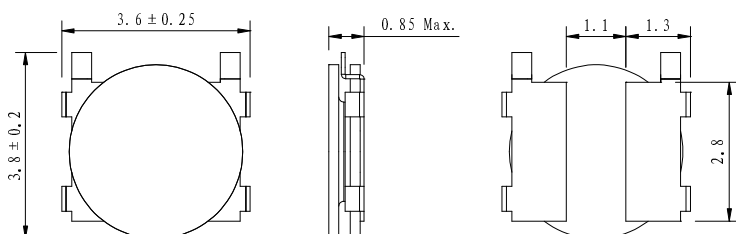
Halogen
Free



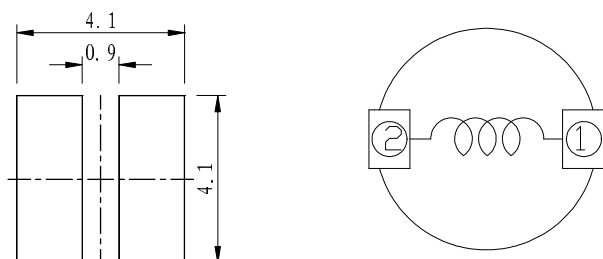
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.0 × 3.85 × 0.85 mm Max.
- Product weight: 40mg(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.
- 7.0" diameter reel
- 1000pcs per reel

Applications

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

Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [Within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDH36D07HF-1R0NC	1R0	1.0 ± 30%	0.14 (0.11)	1.79	1.21
CDH36D07HF-1R5NC	1R5	1.5 ± 30%	0.18 (0.14)	1.52	1.08
CDH36D07HF-2R2MC	2R2	2.2 ± 20%	0.23 (0.18)	1.24	0.93
CDH36D07HF-2R7MC	2R7	2.7 ± 20%	0.26 (0.21)	1.12	0.89
CDH36D07HF-3R3MC	3R3	3.3 ± 20%	0.30 (0.24)	0.98	0.82
CDH36D07HF-4R7MC	4R7	4.7 ± 20%	0.39 (0.31)	0.90	0.70
CDH36D07HF-6R8MC	6R8	6.8 ± 20%	0.55 (0.44)	0.70	0.63
CDH36D07HF-8R2MC	8R2	8.2 ± 20%	0.83 (0.66)	0.65	0.49
CDH36D07HF-100MC	100	10.0 ± 20%	0.96 (0.77)	0.58	0.36

※1. Inductance measuring condition: at 100kHz.

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

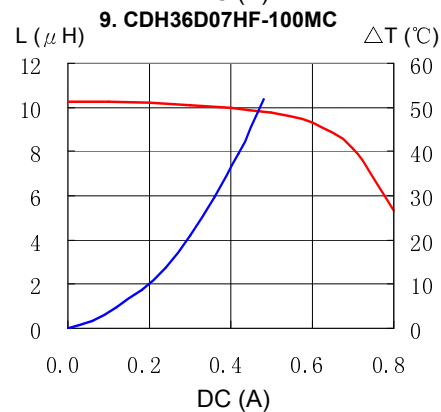
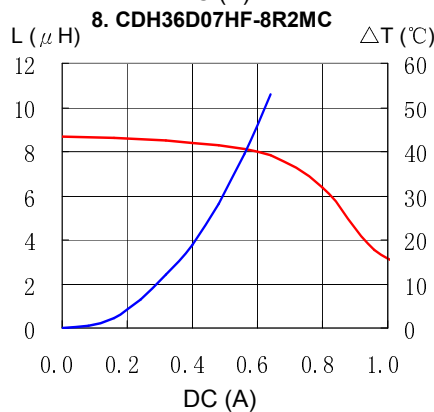
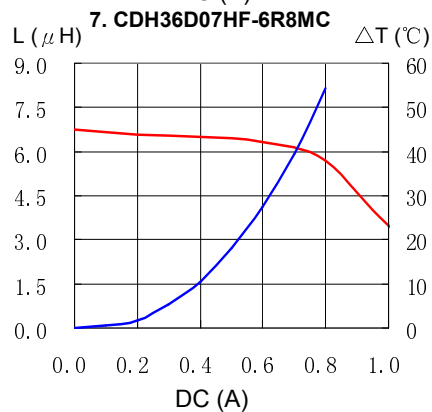
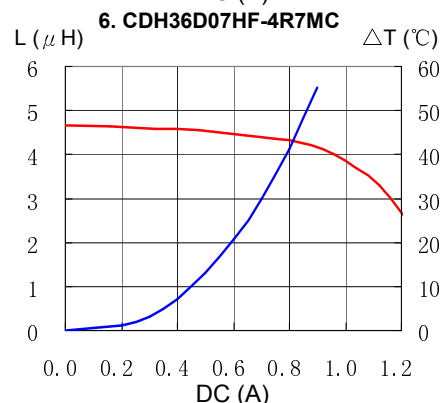
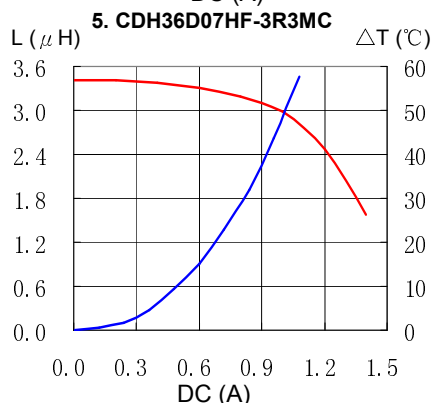
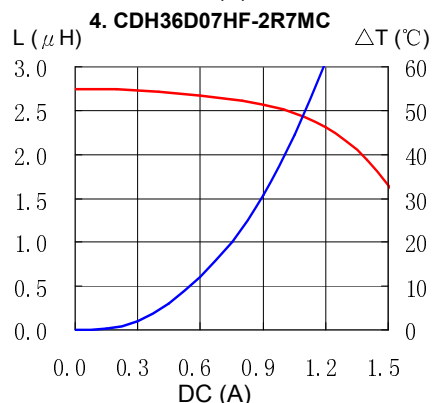
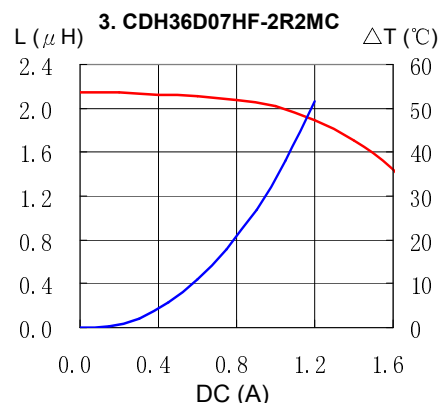
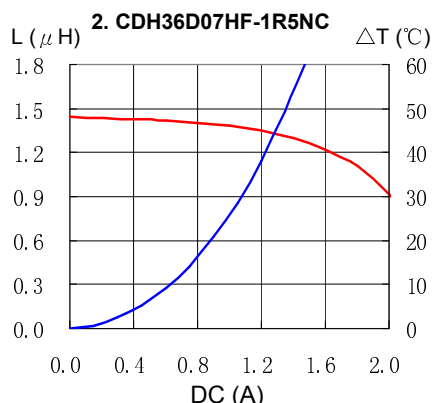
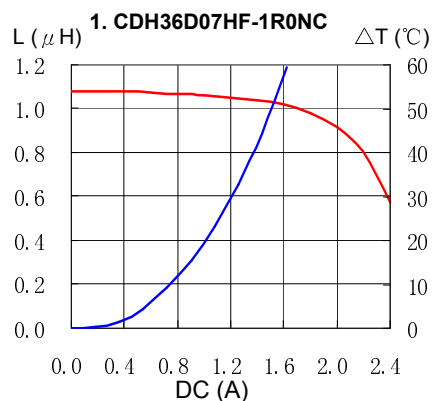
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

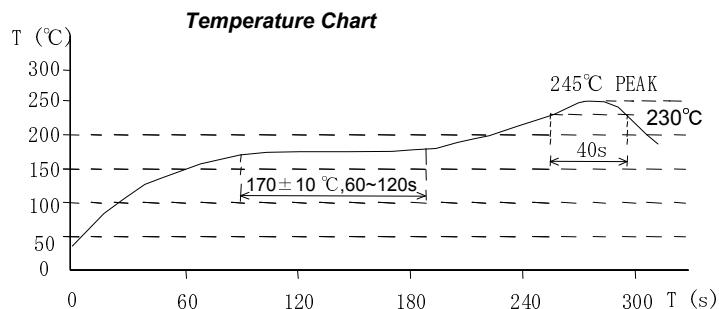
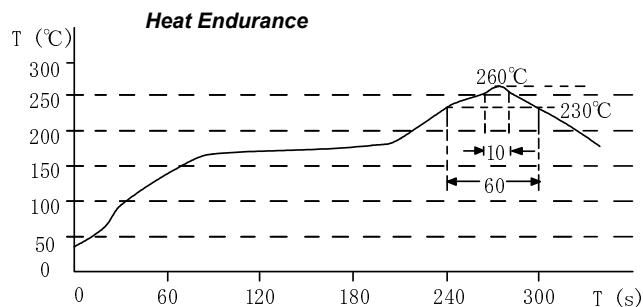
— L (20°C) — ΔT



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Solder Reflow Condition



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