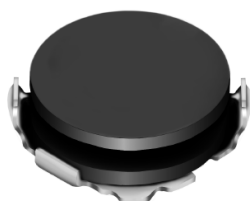


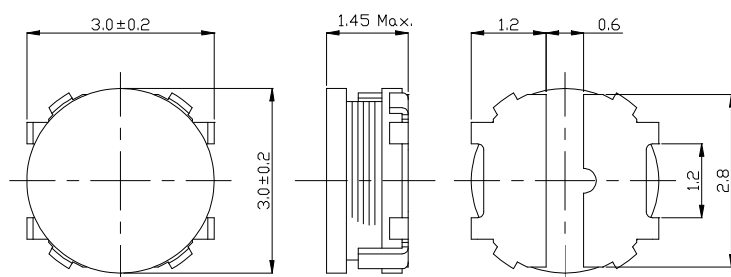
SMD Power Inductor CDH3D13D/SHP



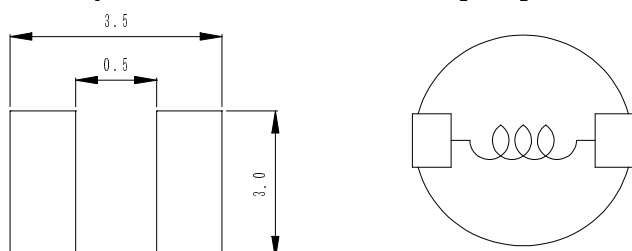
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.2 × 1.45 mm Max.
- Product weight: 40mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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, Portable DVD, etc as DC-DC converter inductors.

Electrical Characteristics

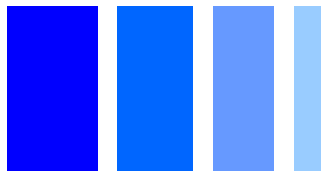
Part Name	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDH3D13DSHPNP-1R2MC	A	1.2±20%	90.4(72.3)	2.30	1.70	1.90
CDH3D13DSHPNP-1R5MC	B	1.5±20%	102.5(82.0)	2.00	1.60	1.80
CDH3D13DSHPNP-2R2MC	C	2.2±20%	128.3(102.6)	1.70	1.30	1.60
CDH3D13DSHPNP-3R3MC	D	3.3±20%	156.6(125.3)	1.45	1.15	1.40
CDH3D13DSHPNP-4R7MC	E	4.7±20%	201.8(161.4)	1.20	1.00	1.20
CDH3D13DSHPNP-5R6MC	F	5.6±20%	259.5(207.6)	1.10	0.90	1.05
CDH3D13DSHPNP-6R8MC	G	6.8±20%	323.8(259.0)	1.00	0.75	1.00
CDH3D13DSHPNP-100MC	H	10.0±20%	415.0(332.0)	0.85	0.70	0.90
CDH3D13DSHPNP-120MC	I	12.0±20%	566.3(453.1)	0.72	0.60	0.70
CDH3D13DSHPNP-150MC	J	15.0±20%	725.3(580.2)	0.65	0.54	0.60
CDH3D13DSHPNP-220MC	K	22.0±20%	941.8(753.4)	0.55	0.40	0.55

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

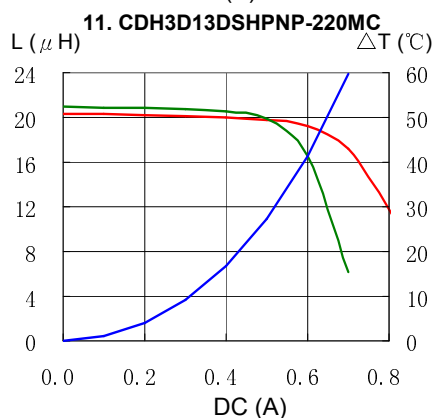
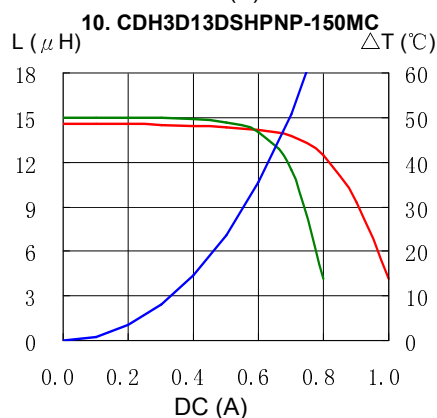
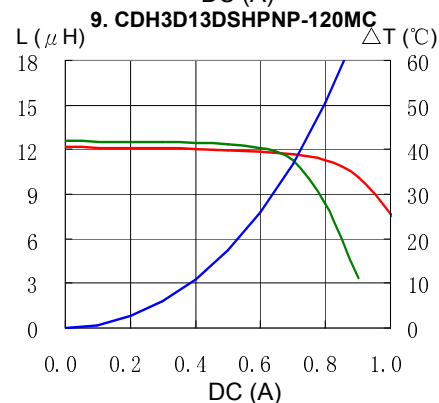
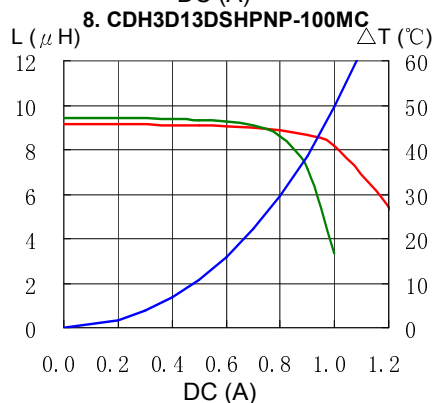
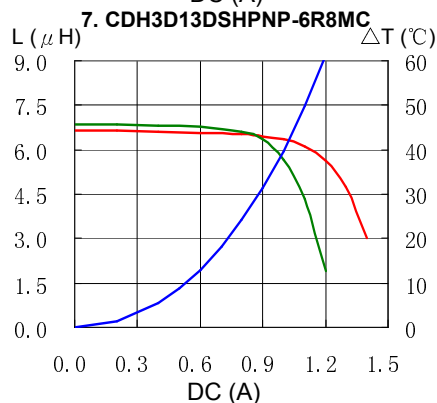
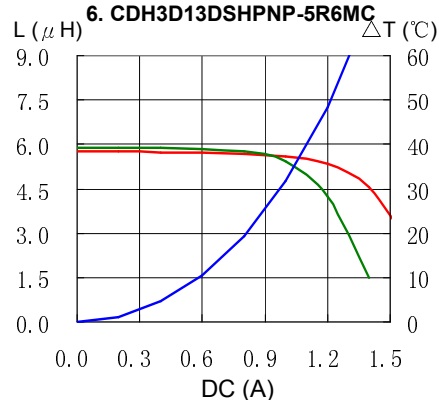
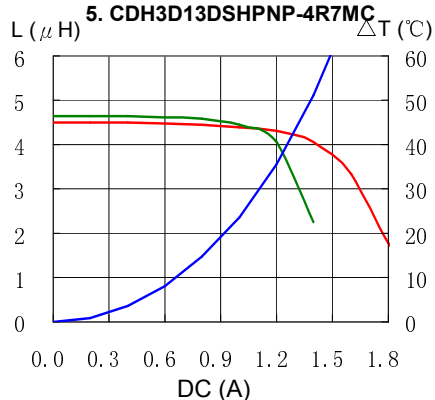
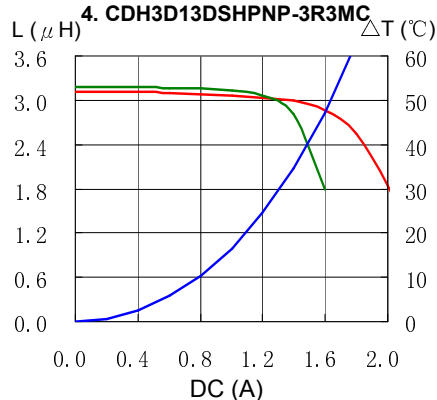
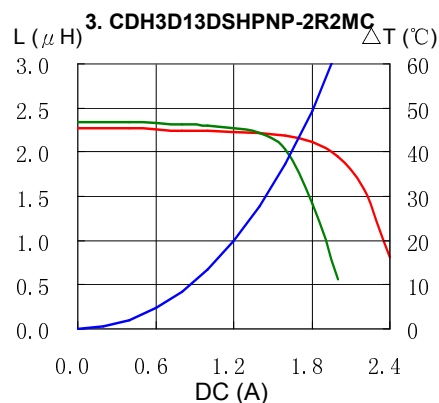
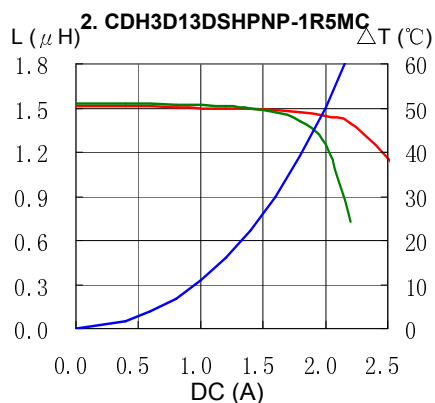
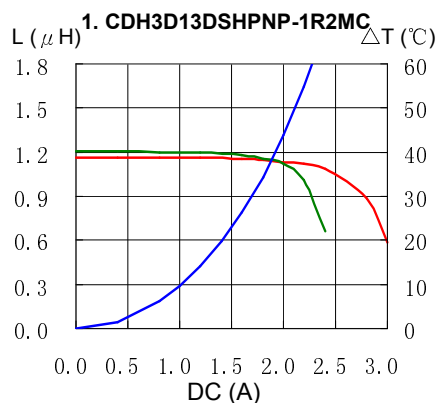
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

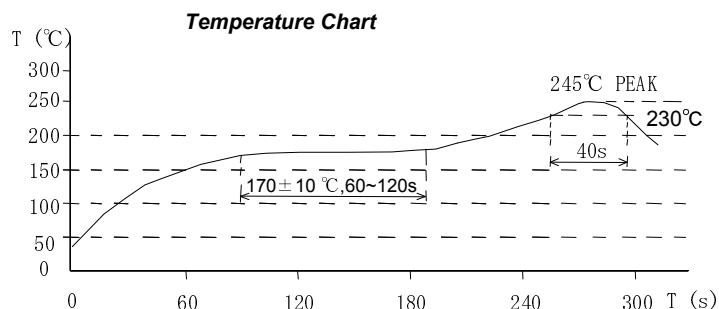
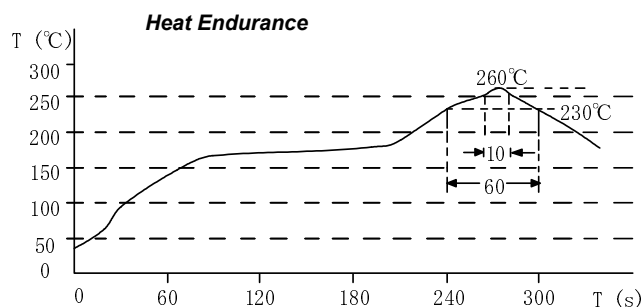
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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