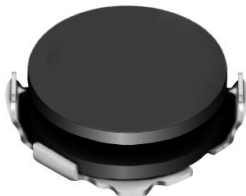


SMD Power Inductor

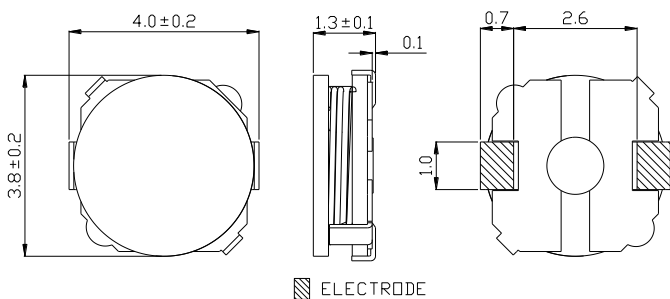
CDH3D13/SHP



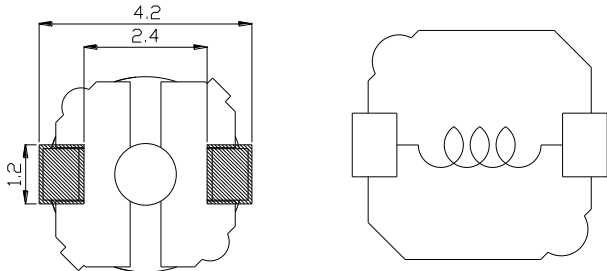
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.2 × 4.0 × 1.4 mm Max.
- Product weight: 70mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40℃ ~ +105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃ ~ +105℃
- Solder reflow temperature: 260℃ 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℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 100℃	
CDH3D13SHPNP-1R2MC	1R2	1.2±20%	88(70)	2.60	2.20	2.40
CDH3D13SHPNP-1R5MC	1R5	1.5±20%	100(80)	2.30	1.95	2.20
CDH3D13SHPNP-2R5MC	2R5	2.5±20%	125(100)	1.80	1.55	1.80
CDH3D13SHPNP-3R6MC	3R6	3.6±20%	156(125)	1.55	1.35	1.60
CDH3D13SHPNP-4R7MC	4R7	4.7±20%	181(145)	1.30	1.20	1.50
CDH3D13SHPNP-6R8MC	6R8	6.8±20%	275(220)	1.10	0.95	1.30
CDH3D13SHPNP-100MC	100	10.0±20%	375(300)	0.90	0.80	0.95
CDH3D13SHPNP-120MC	120	12.0±20%	469(375)	0.85	0.75	0.90
CDH3D13SHPNP-150MC	150	15.0±20%	569(455)	0.75	0.67	0.85
CDH3D13SHPNP-220MC	220	22.0±20%	856(685)	0.60	0.58	0.72

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

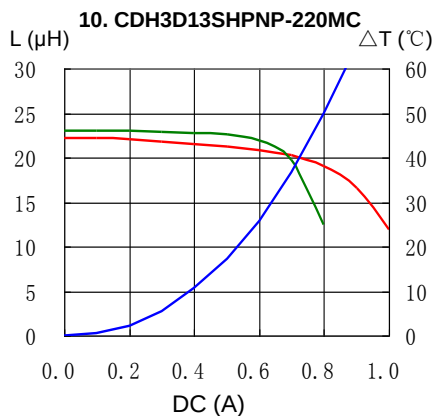
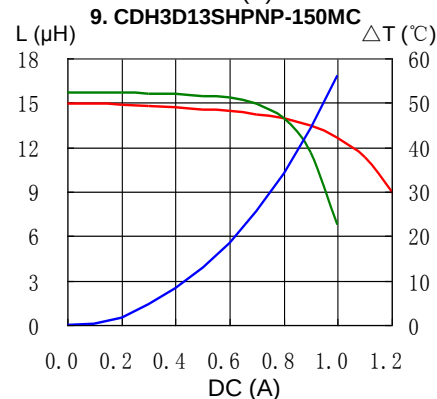
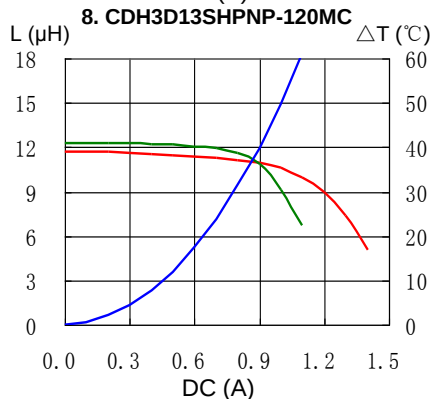
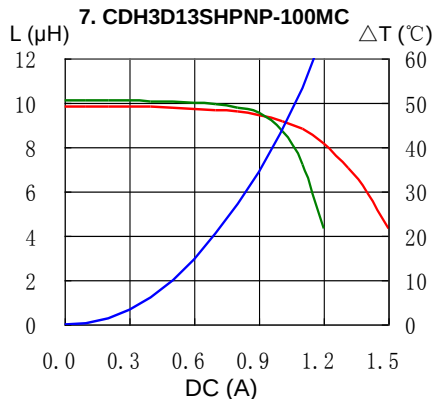
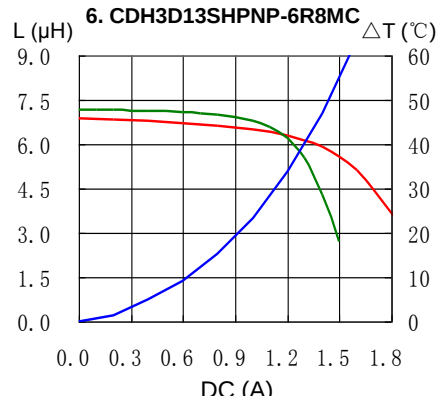
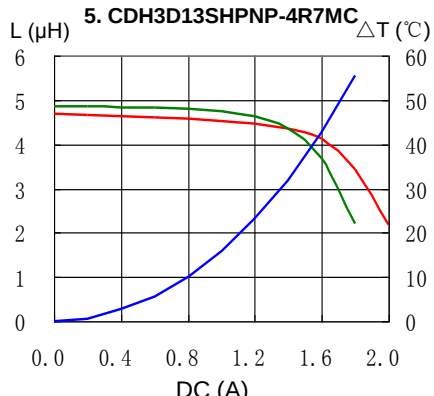
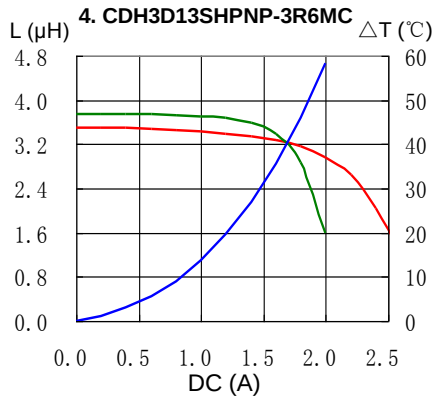
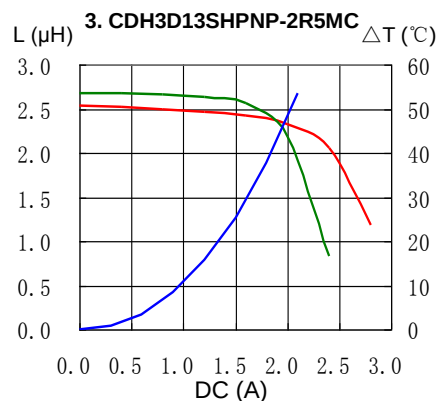
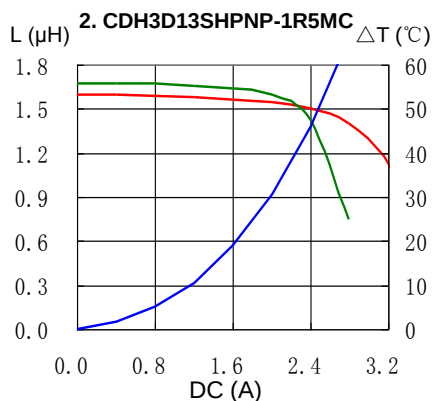
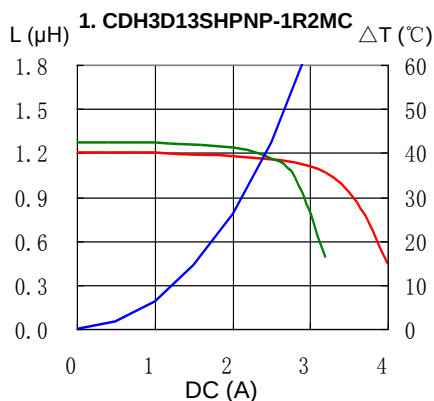
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDH3D13/SHP

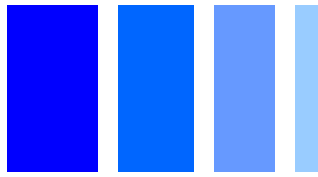


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

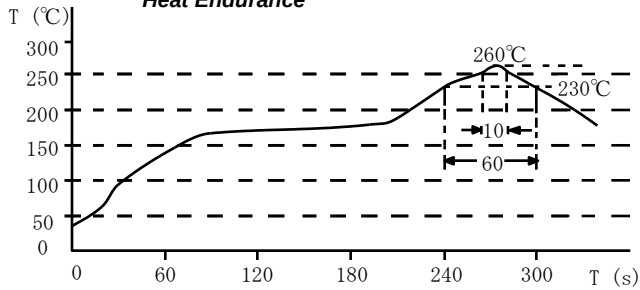


SMD Power Inductor CDH3D13/SHP

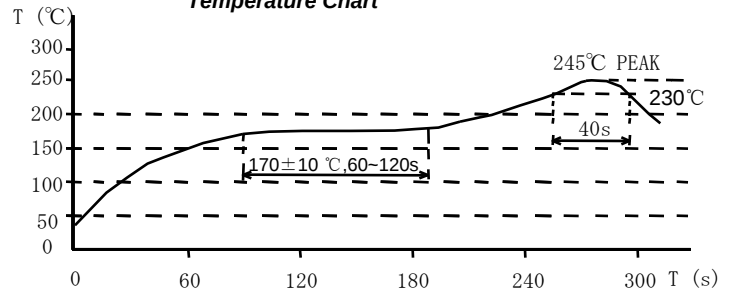


Solder Reflow Condition

Heat Endurance



Temperature Chart



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