

SMD Power Inductor CDH46D14/SHP



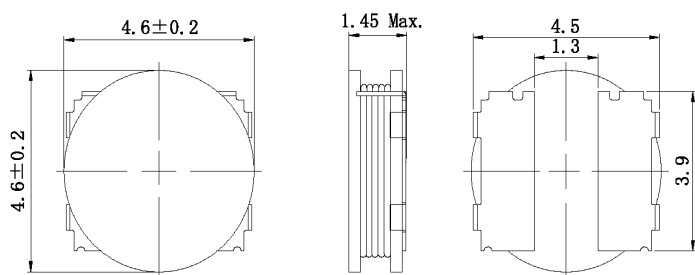
Halogen
Free



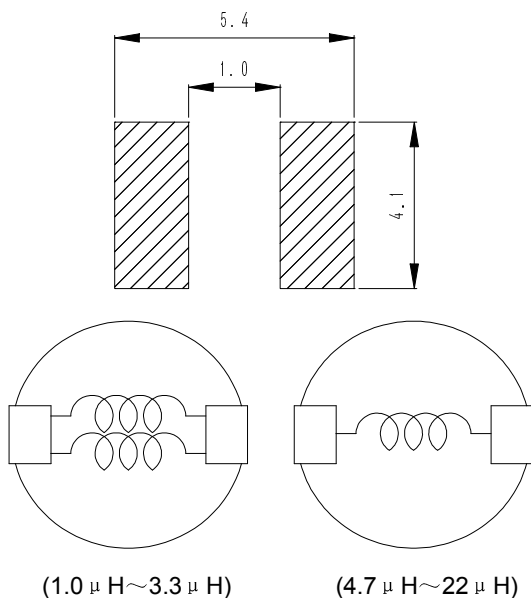
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.8 × 4.8 × 1.45mm Max.
- Product weight: 100mg(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.

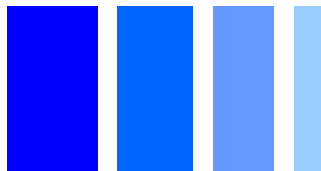
Packaging

- Carrier tape and reel packaging.
- 7.0" diameter reel
- 1000pcs per reel

Applications

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

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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	
CDH46D14SHPNP-1R0MC	1R0	1.0 $\pm$ 20%	51.4(41.1)	3.95	3.30	2.65
CDH46D14SHPNP-1R5MC	1R5	1.5 $\pm$ 20%	61.4(49.1)	3.45	2.88	2.60
CDH46D14SHPNP-1R8MC	1R8	1.8 $\pm$ 20%	70.1(56.1)	3.20	2.65	2.50
CDH46D14SHPNP-2R2MC	2R2	2.2 $\pm$ 20%	80.3(64.2)	2.95	2.44	2.35
CDH46D14SHPNP-3R3MC	3R3	3.3 $\pm$ 20%	113(90.7)	2.50	2.00	1.95
CDH46D14SHPNP-4R7MC	4R7	4.7 $\pm$ 20%	175(140)	2.00	1.65	1.60
CDH46D14SHPNP-5R6MC	5R6	5.6 $\pm$ 20%	203(162)	1.82	1.50	1.40
CDH46D14SHPNP-6R8MC	6R8	6.8 $\pm$ 20%	221(177)	1.70	1.40	1.35
CDH46D14SHPNP-8R2MC	8R2	8.2 $\pm$ 20%	255(204)	1.55	1.28	1.25
CDH46D14SHPNP-100MC	100	10 $\pm$ 20%	274(219)	1.44	1.20	1.20
CDH46D14SHPNP-120MC	120	12 $\pm$ 20%	389(311)	1.30	1.05	0.95
CDH46D14SHPNP-150MC	150	15 $\pm$ 20%	463(370)	1.15	0.95	0.90
CDH46D14SHPNP-180MC	180	18 $\pm$ 20%	574(459)	1.05	0.88	0.80
CDH46D14SHPNP-220MC	220	22 $\pm$ 20%	748(598)	0.95	0.77	0.70

※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.

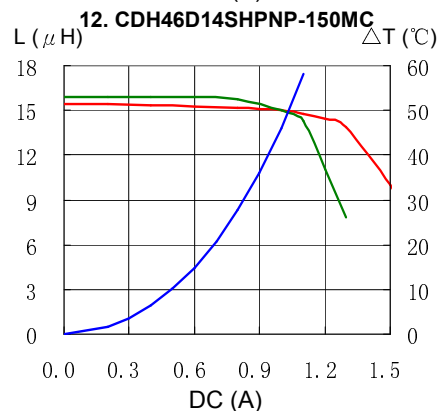
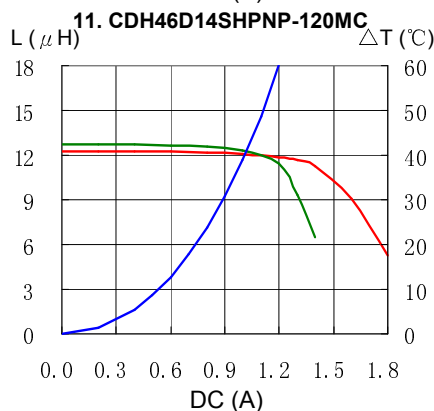
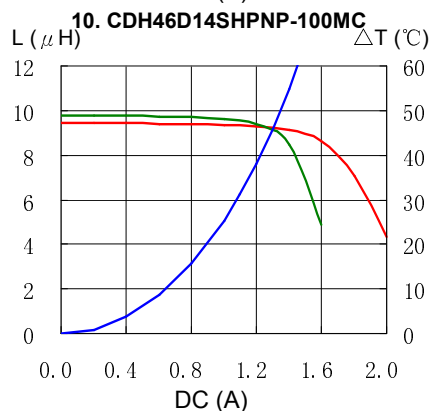
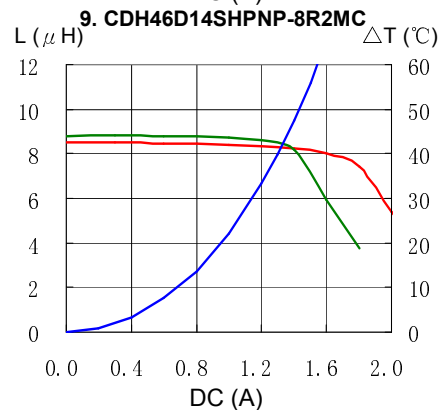
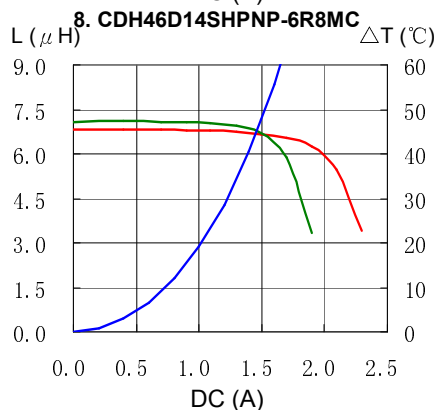
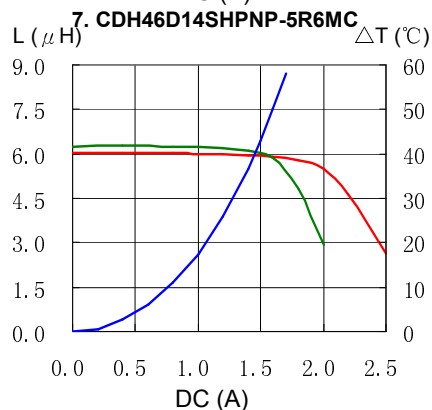
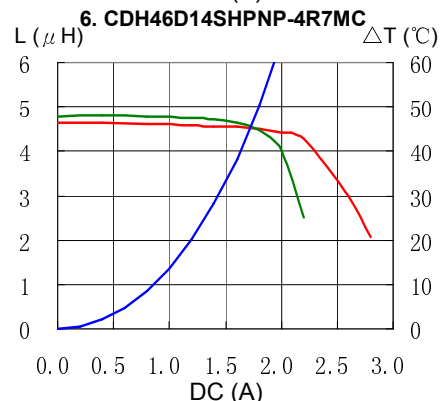
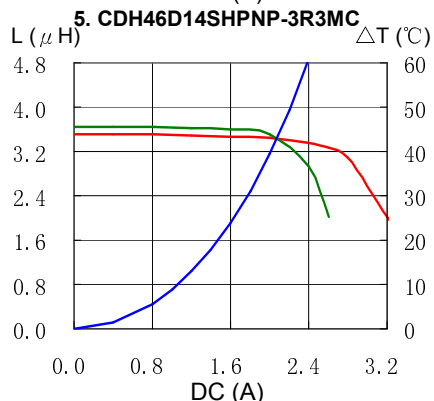
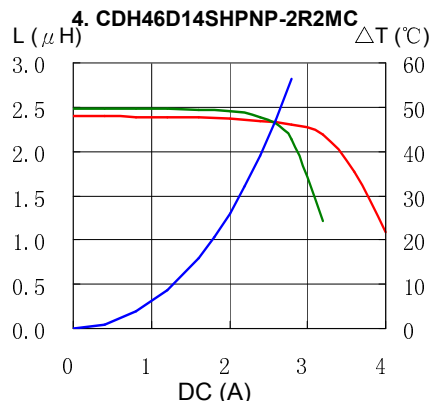
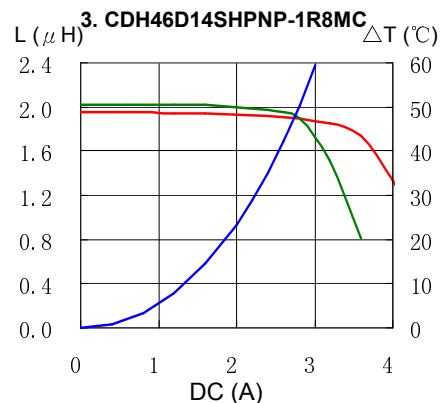
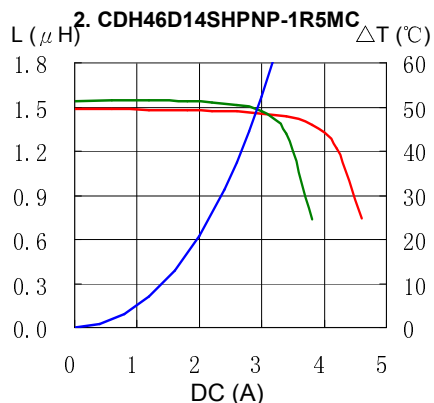
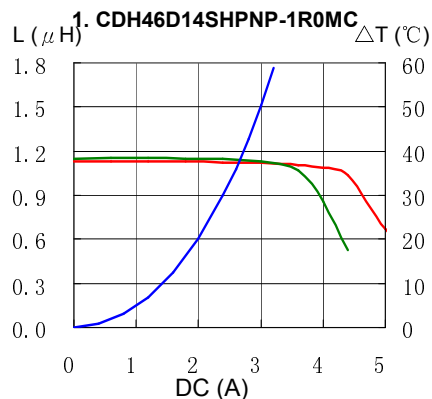
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

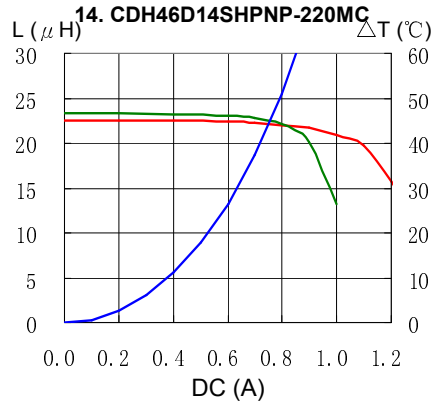
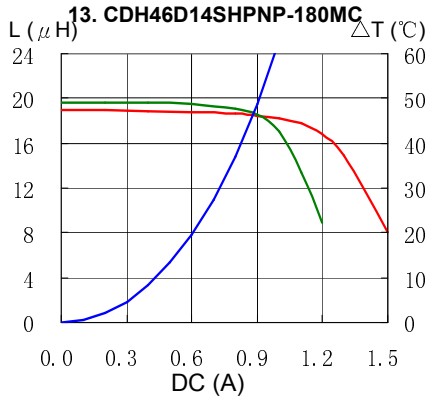


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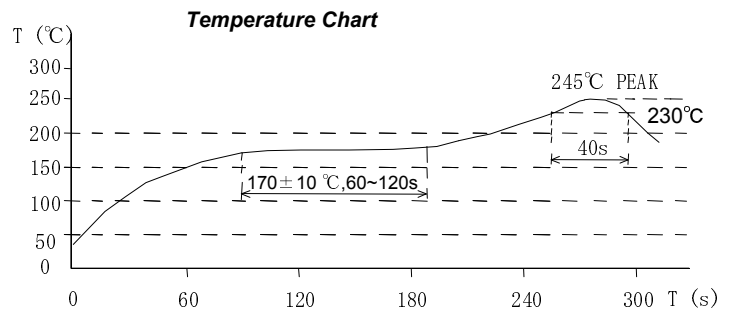
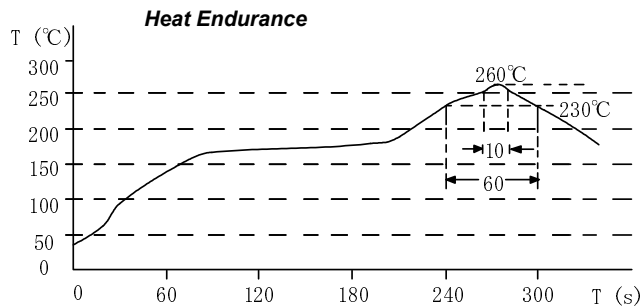


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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