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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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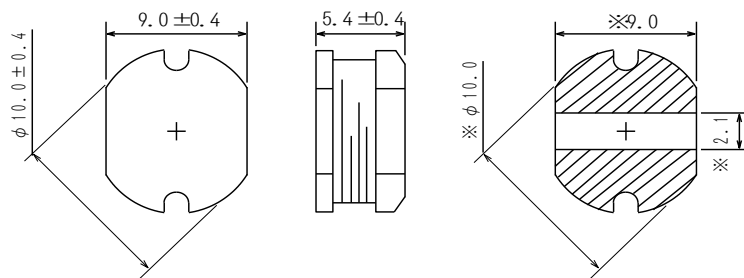
SMD Power Inductor CD105



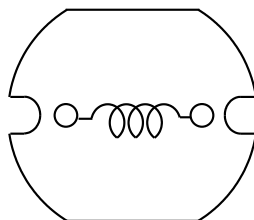
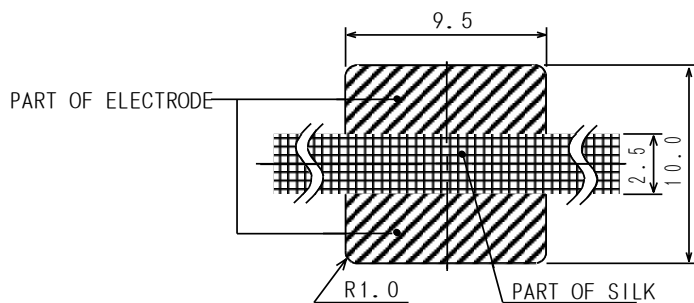
Description

- Ferrite durm core construction.
- Magnetically unshielded.
- L × W × H: 10.4 × 9.4 × 5.8mm Max.
- Product weight:1.3 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

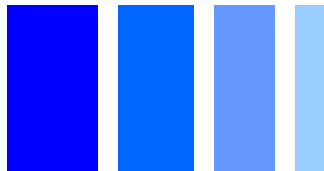
- Carrier tape and reel packaging.
- 12.9" diameter reel
- 500pcs per reel

Applications

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

SMD Power Inductor

CD105



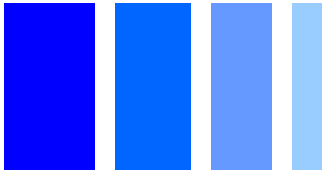
Electrical Characteristics

Part Name	Inductance (μH) [Within] ※1	D.C.R. (Ω) [MAX.] (at 20℃)	Rated Current (A) ※2
CD105NP-100MC	10±20%	0.06	2.60
CD105NP-120MC	12±20%	0.07	2.45
CD105NP-150MC	15±20%	0.08	2.27
CD105NP-180MC	18±20%	0.09	2.15
CD105NP-220MC	22±20%	0.10	1.95
CD105NP-270MC	27±20%	0.11	1.76
CD105NP-330MC	33±20%	0.12	1.50
CD105NP-390MC	39±20%	0.14	1.37
CD105NP-470KC	47±10%	0.17	1.28
CD105NP-560KC	56±10%	0.19	1.17
CD105NP-680KC	68±10%	0.22	1.11
CD105NP-820KC	82±10%	0.25	1.00
CD105NP-101KC	100±10%	0.35	0.97
CD105NP-121KC	120±10%	0.40	0.89
CD105NP-151KC	150±10%	0.47	0.78
CD105NP-181KC	180±10%	0.63	0.72
CD105NP-221KC	220±10%	0.73	0.66
CD105NP-271KC	270±10%	0.97	0.57
CD105NP-331KC	330±10%	1.15	0.52
CD105NP-391KC	390±10%	1.30	0.48
CD105NP-471KC	470±10%	1.48	0.42
CD105NP-561KC	560±10%	1.90	0.33
CD105NP-681KC	680±10%	2.25	0.28
CD105NP-821KC	820±10%	2.55	0.24

※1: Inductance measuring frequency: 10μH ~ 82μH ; at 2.52MHz.
100μH ~ 820μH ; at 1kHz.

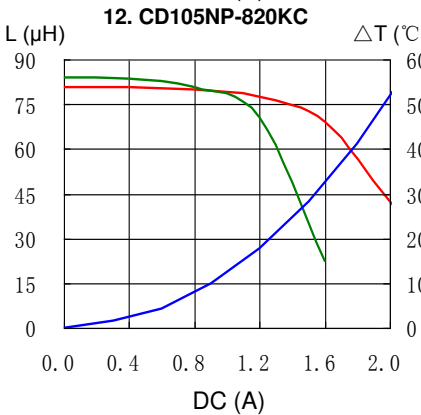
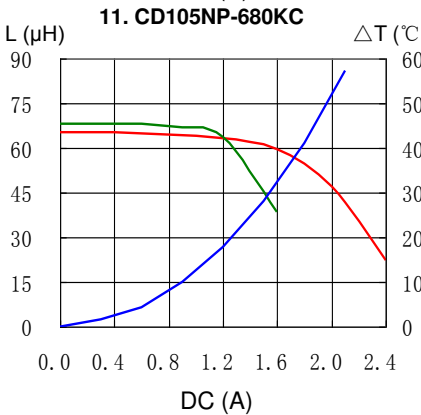
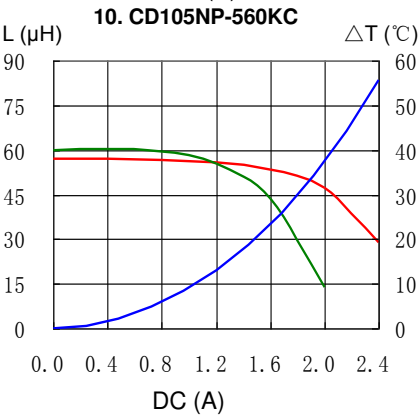
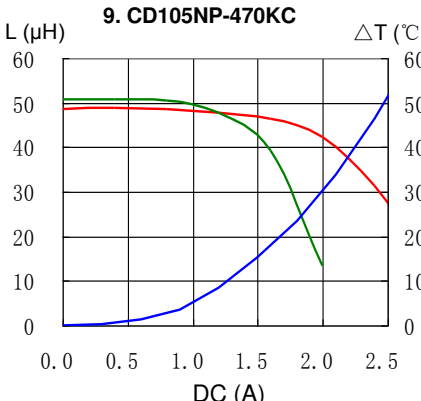
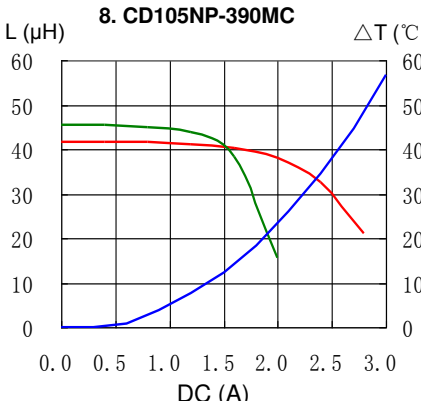
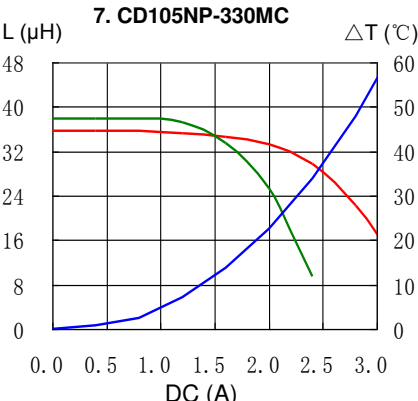
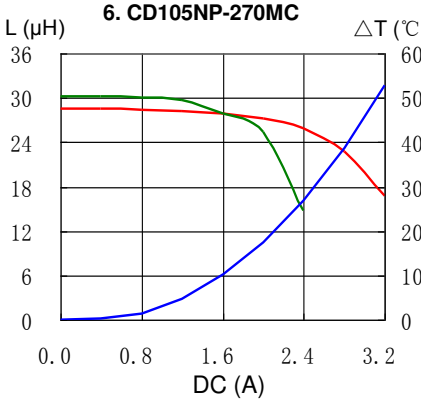
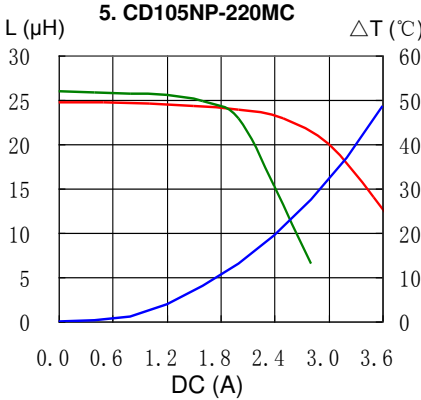
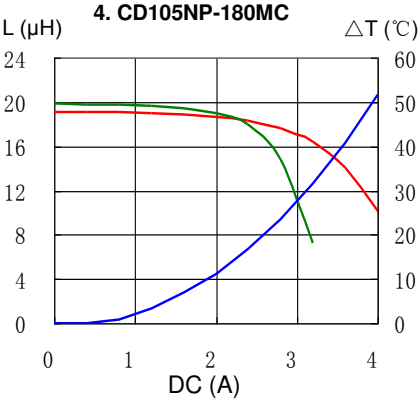
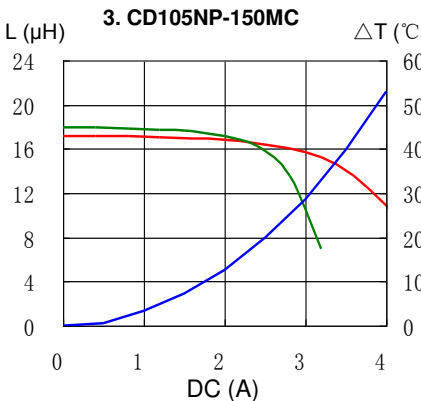
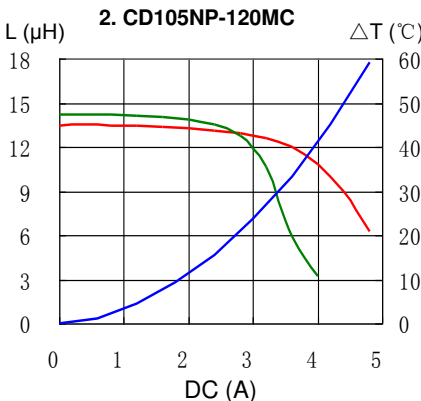
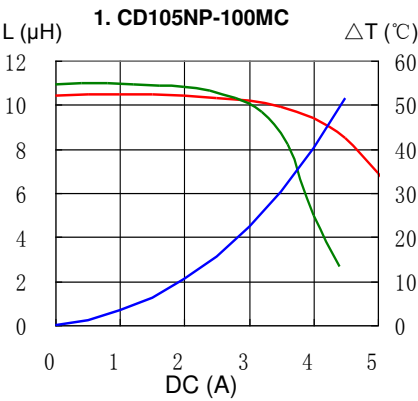
※2: Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when Δt=40℃, whichever is lower (Ta=20℃).

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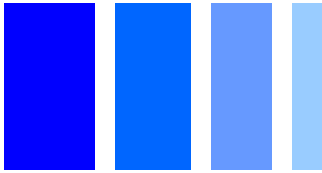


Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) — ΔT

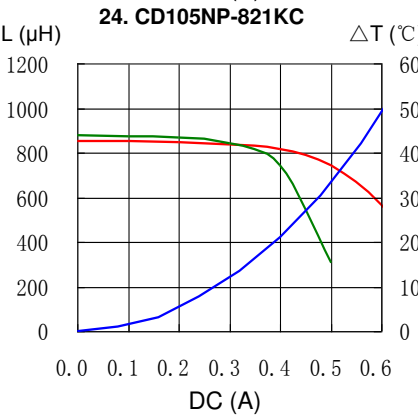
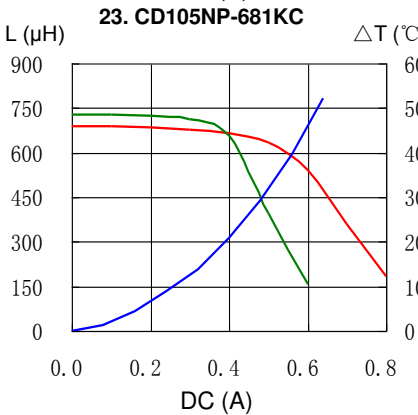
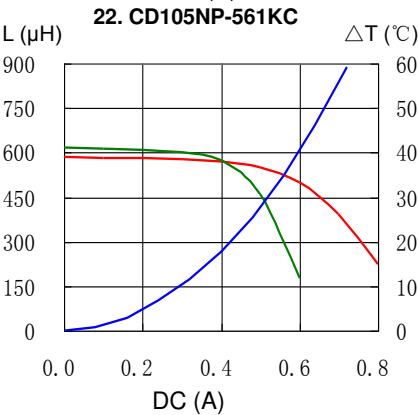
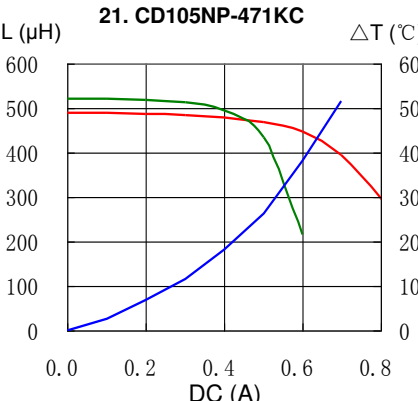
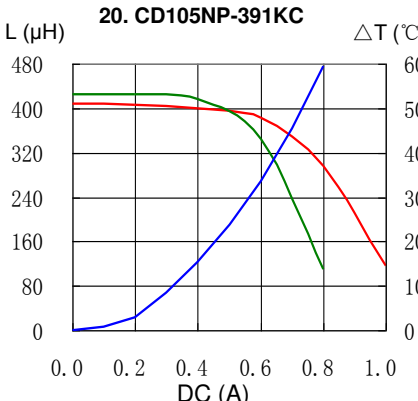
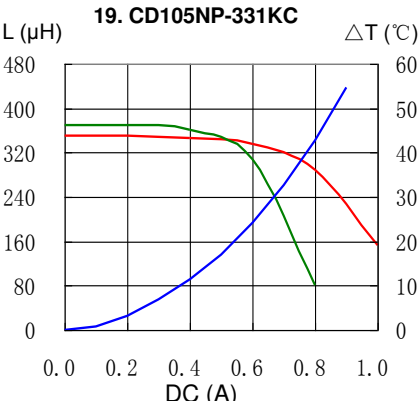
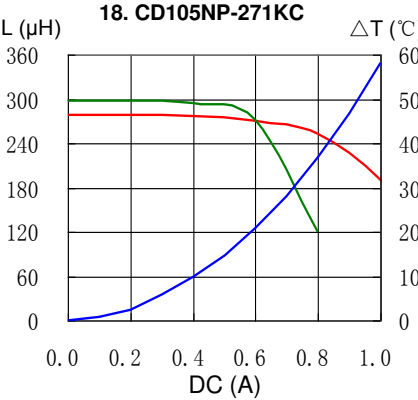
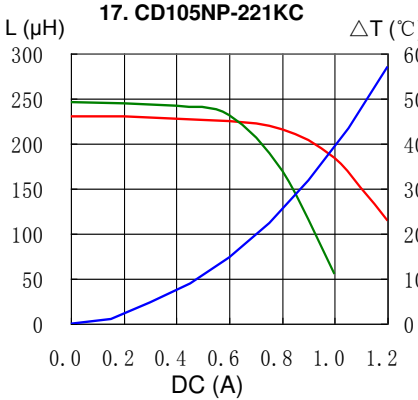
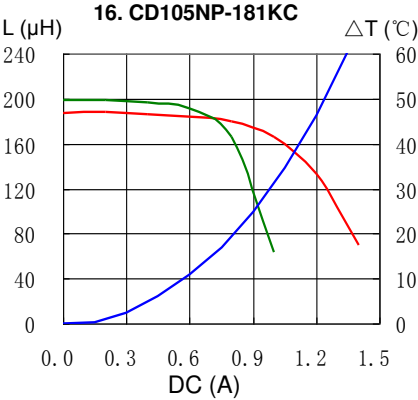
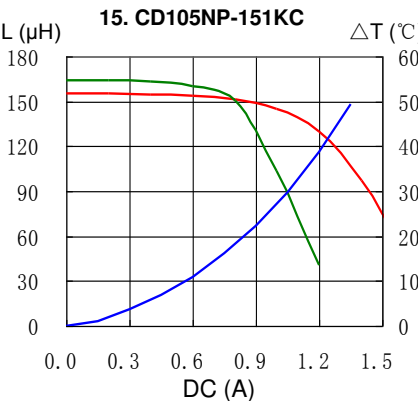
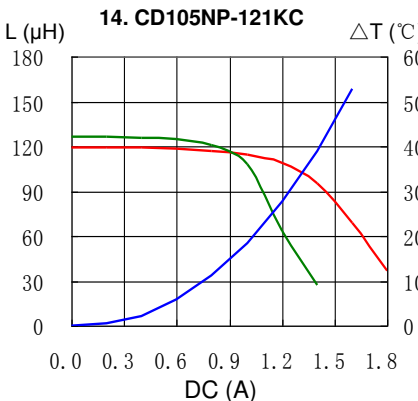
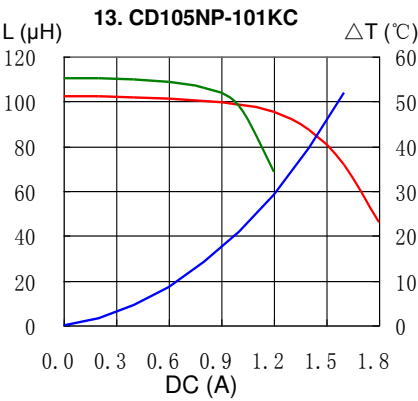


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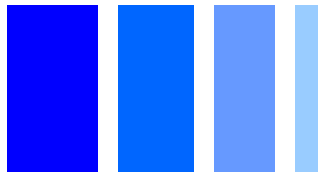


Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) — ΔT

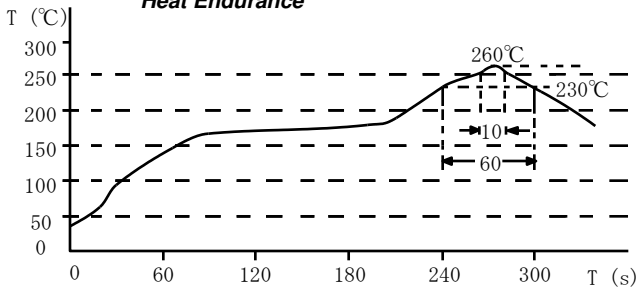


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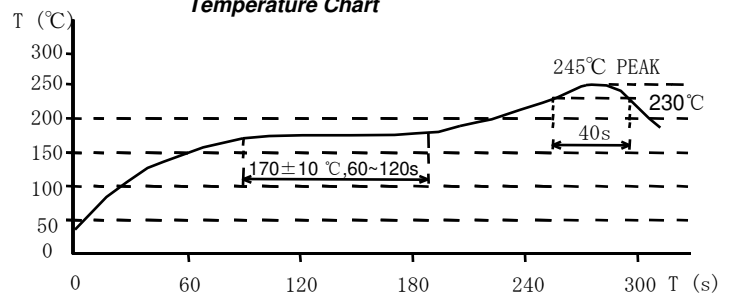


Solder Reflow Condition

Heat Endurance



Temperature Chart



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