

SMD Power Inductor CD105



Halogen Free



Description

- Ferrite 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.
- Halogen Free available.

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.

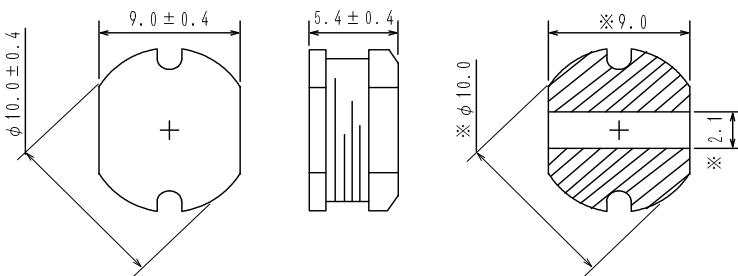
Packaging

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

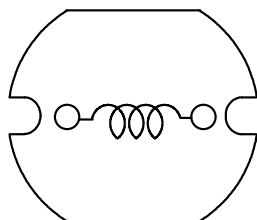
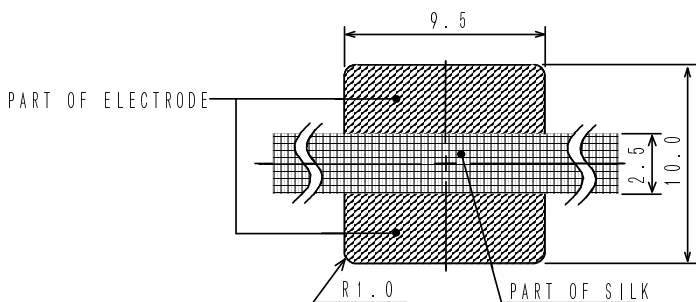
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part Name	Inductance (μH) [Within] ※1	D.C.R. (Ω) [MAX.] (at 20°C)	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: 10 μH ~ 82 μH ; at 2.52MHz.
100 μH ~ 820 μH ; at 1kHz.

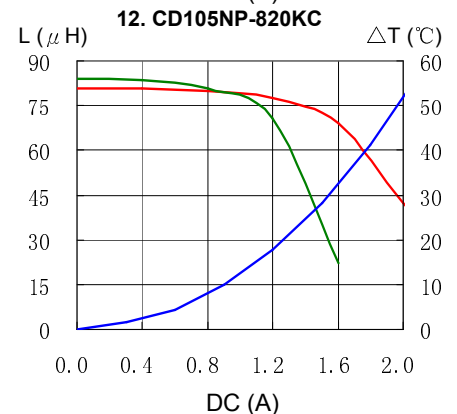
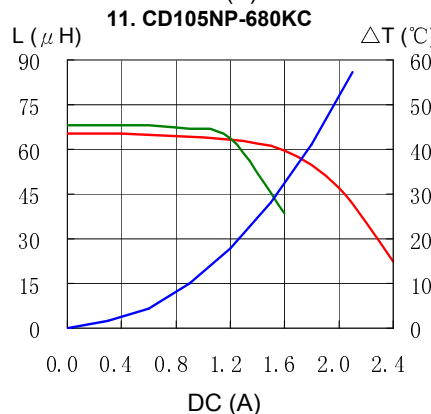
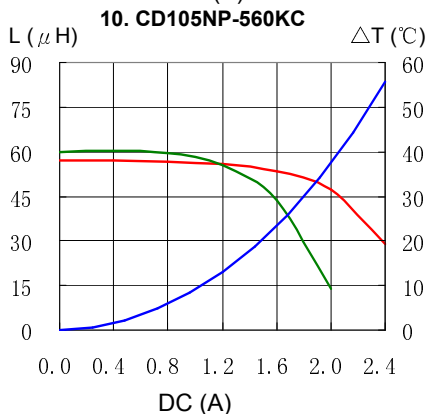
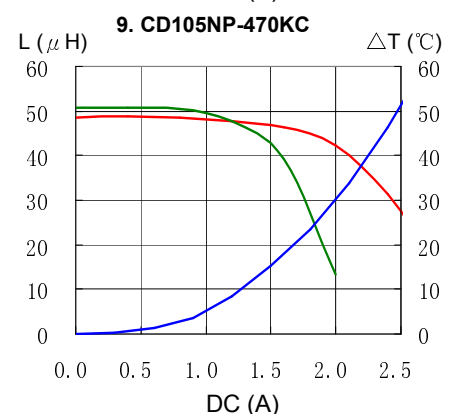
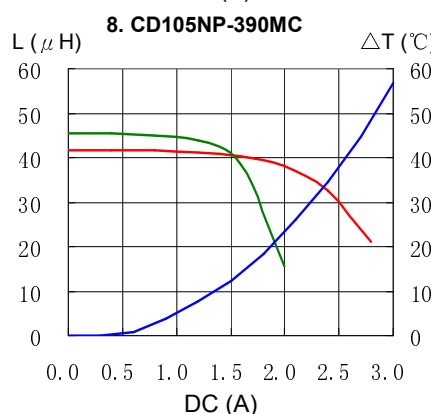
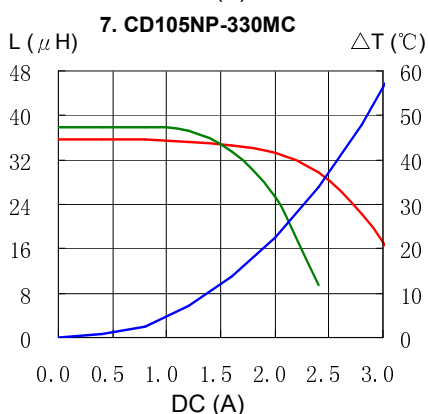
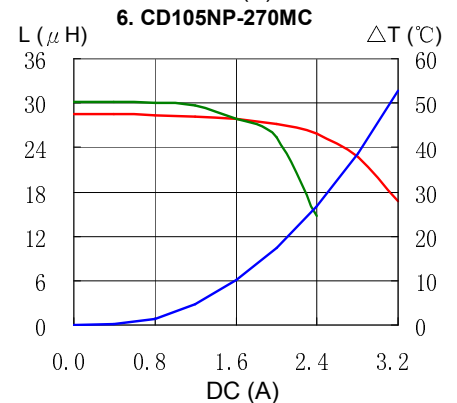
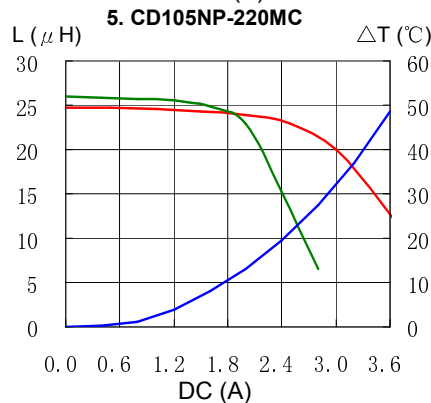
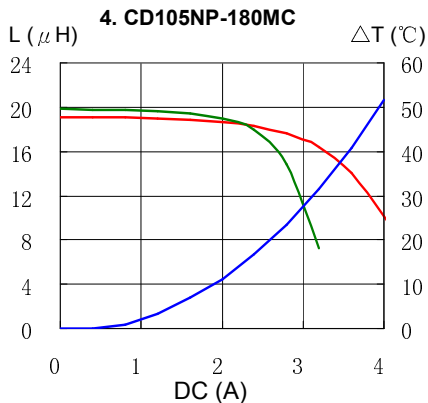
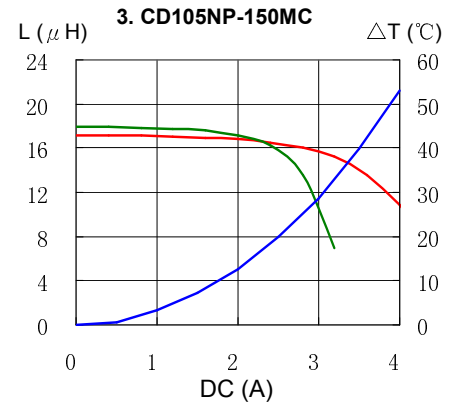
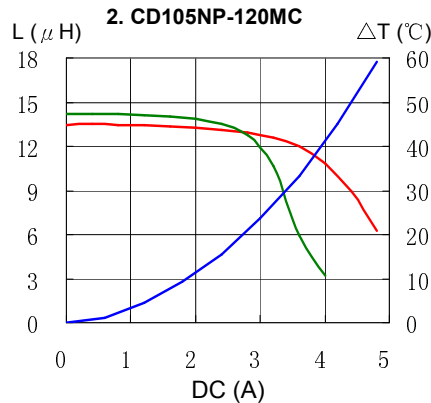
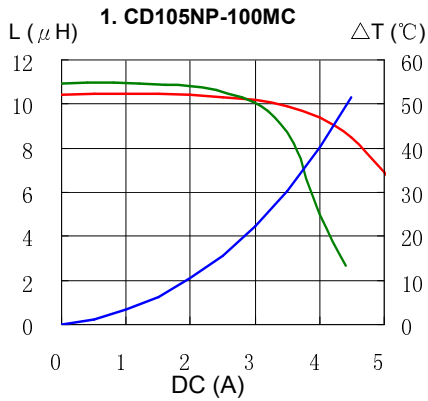
※2: Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t = 40^\circ\text{C}$, whichever is lower ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) — ΔT

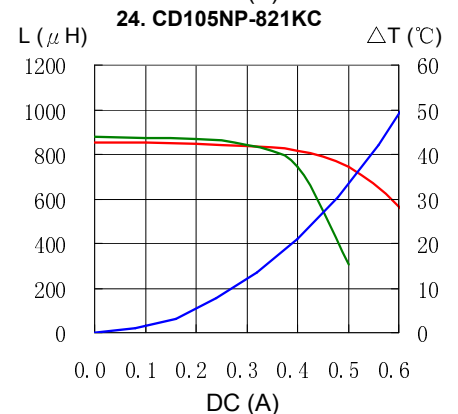
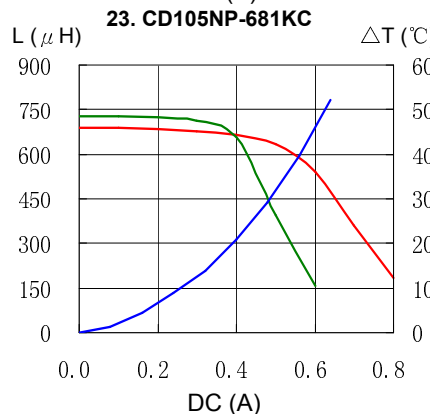
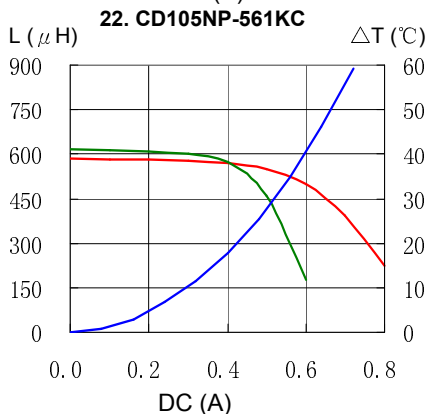
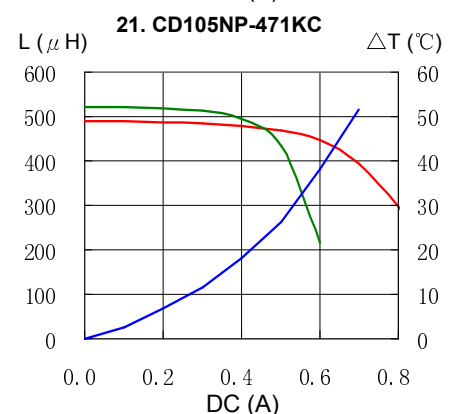
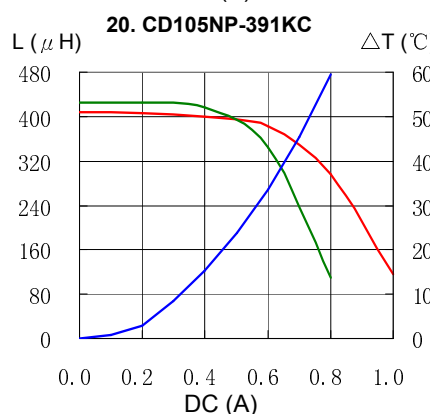
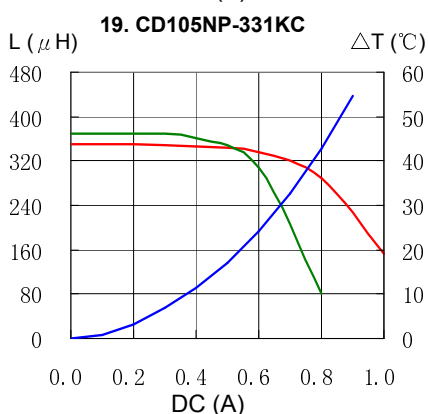
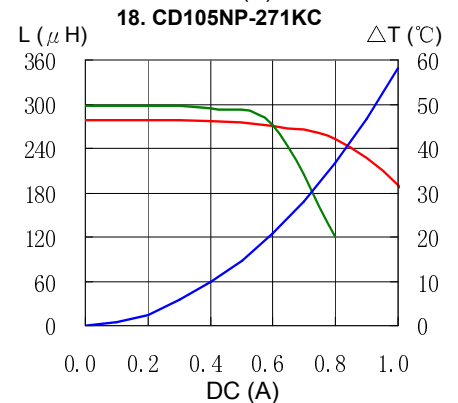
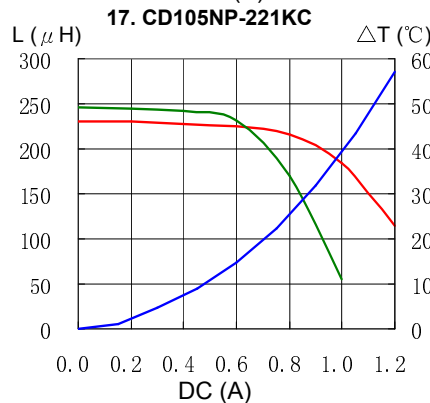
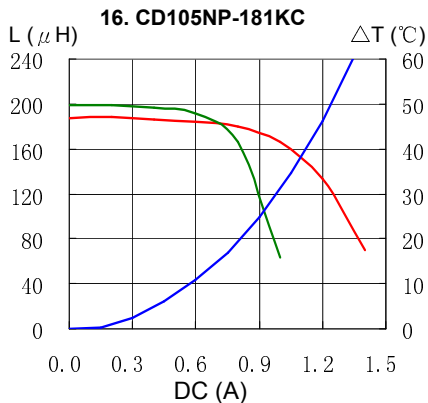
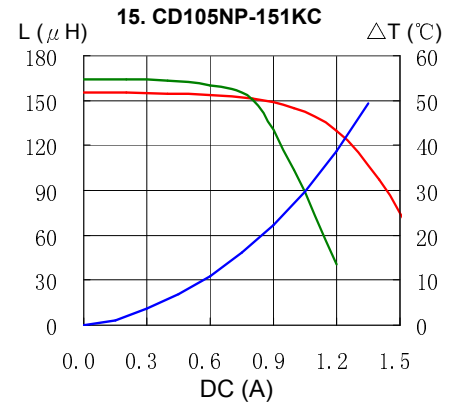
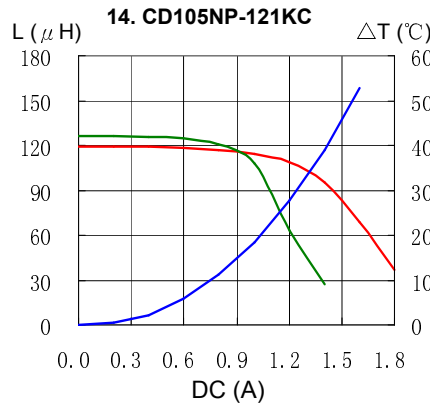
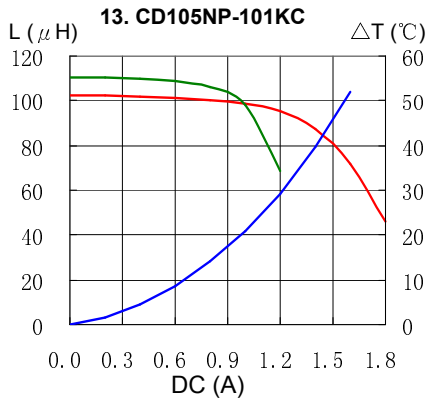


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Saturation Current & Temperature Rise Graph

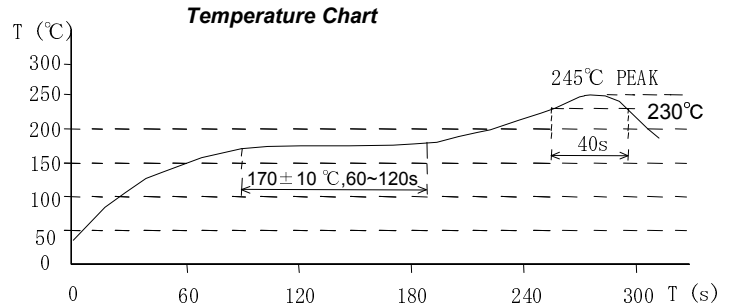
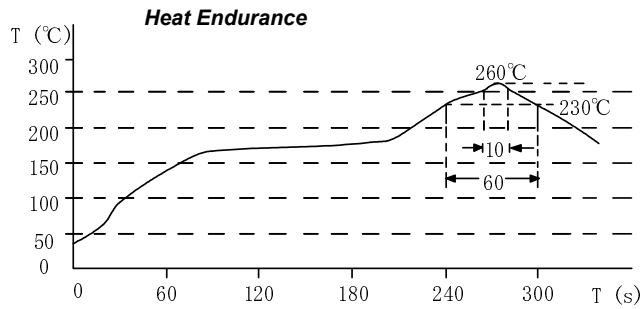
— L (25°C) — L (105°C) — ΔT



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Solder Reflow Condition



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