

SMD Power Inductor

CD54



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.1 × 5.5 × 4.85mm Max.
- Product weight 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.



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.

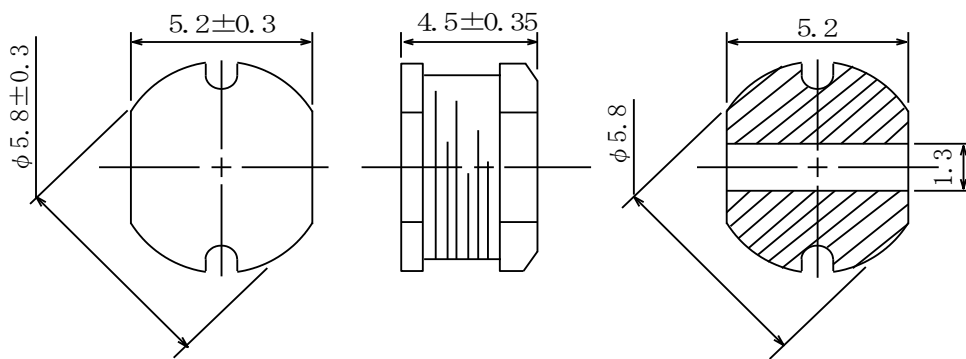
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1500pcs per reel

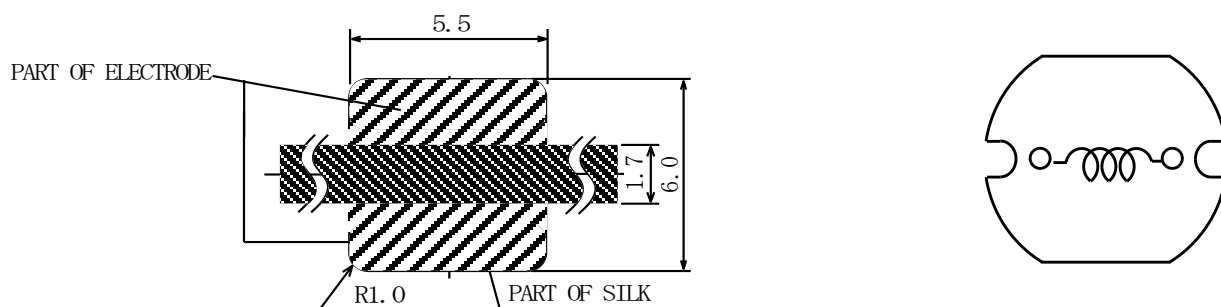
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, portable DVD etc. as DC-DC Converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

CD54



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R (Ω) [Max.] (at 20°C)	Rated Current (A) ※2
CD54NP-100MC	100	10 \pm 20%	0.10	1.44
CD54NP-120MC	120	12 \pm 20%	0.12	1.40
CD54NP-150MC	150	15 \pm 20%	0.14	1.30
CD54NP-180MC	180	18 \pm 20%	0.15	1.23
CD54NP-220MC	220	22 \pm 20%	0.18	1.11
CD54NP-270MC	270	27 \pm 20%	0.20	0.97
CD54NP-330LC	330	33 \pm 15%	0.23	0.88
CD54NP-390LC	390	39 \pm 15%	0.32	0.80
CD54NP-470LC	470	47 \pm 15%	0.37	0.72
CD54NP-560KC	560	56 \pm 10%	0.42	0.68
CD54NP-680KC	680	68 \pm 10%	0.46	0.61
CD54NP-820KC	820	82 \pm 10%	0.60	0.58
CD54NP-101KC	101	100 \pm 10%	0.70	0.52
CD54NP-121KC	121	120 \pm 10%	0.93	0.48
CD54NP-151KC	151	150 \pm 10%	1.10	0.40
CD54NP-181KC	181	180 \pm 10%	1.38	0.38
CD54NP-221KC	221	220 \pm 10%	1.57	0.35

※1 Inductance measuring frequency: 10 μH ~ 82 μH , at 2.52MHz.

100 μH ~ 220 μH , at 1 kHz.

※2 Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

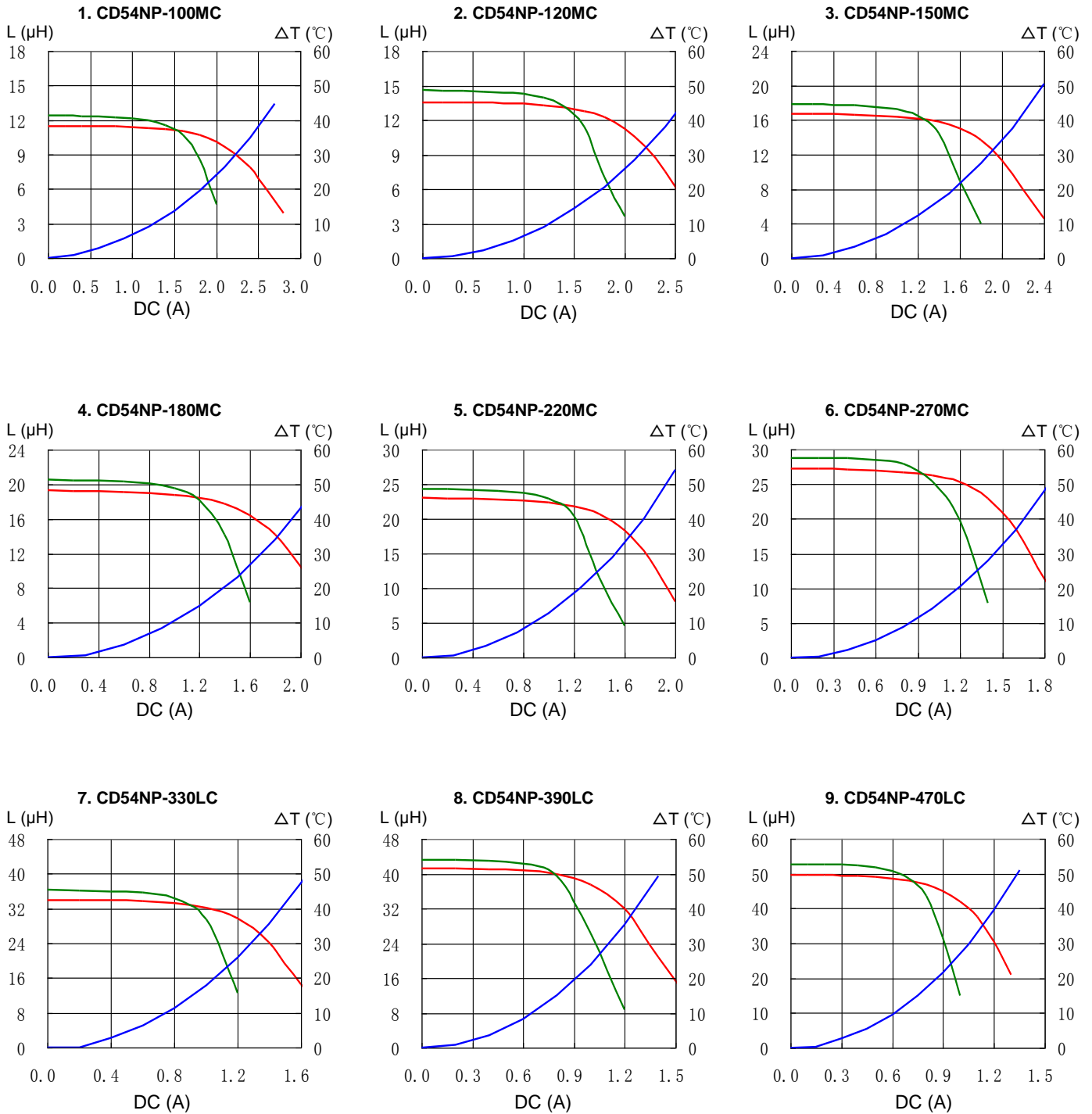
SMD Power Inductor

CD54



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

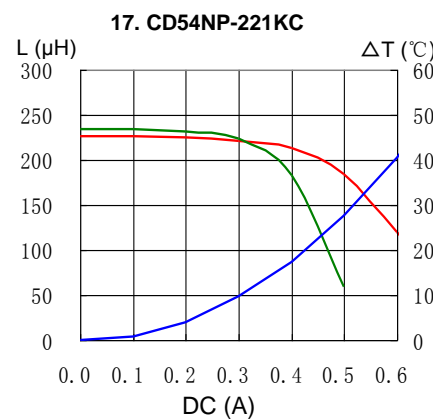
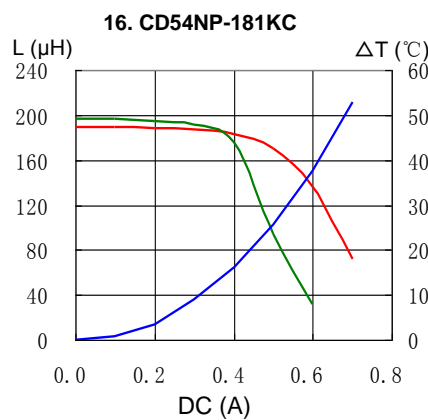
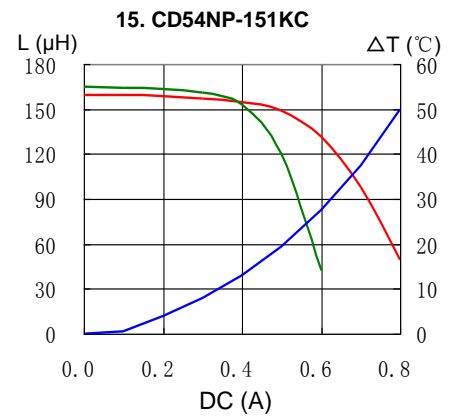
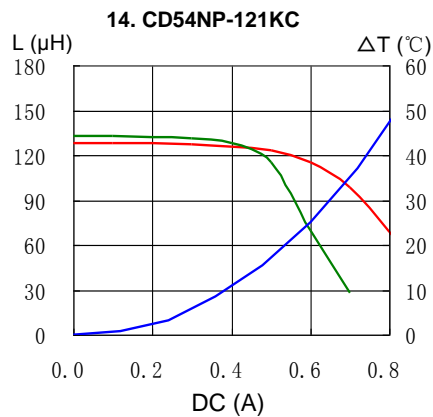
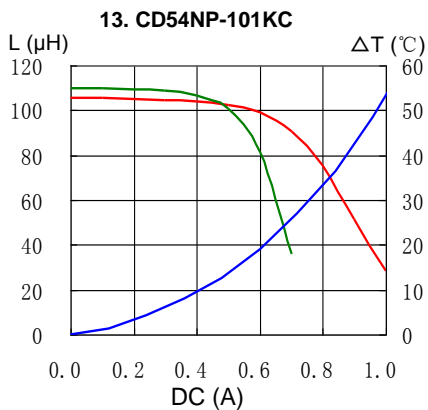
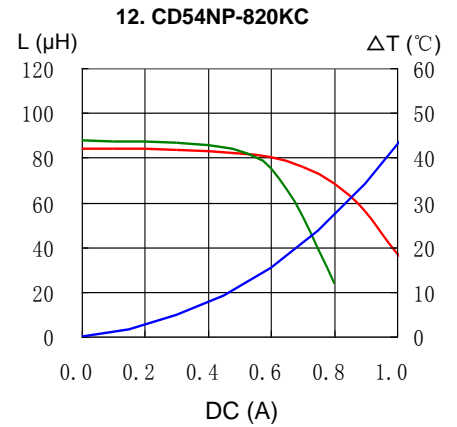
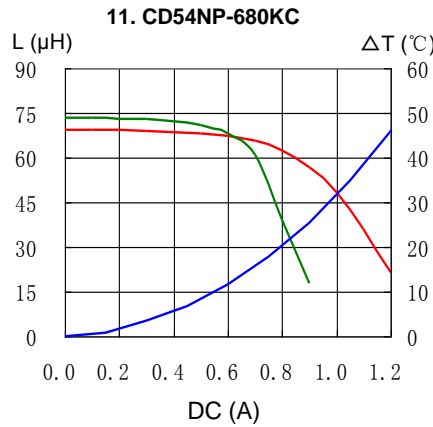
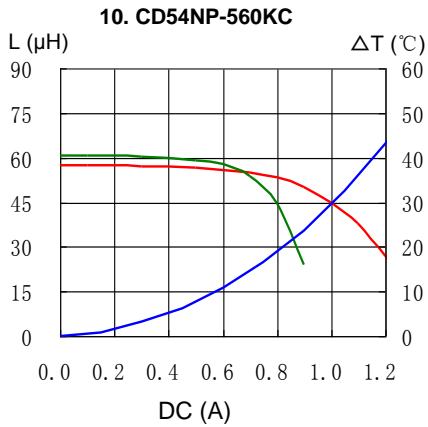
SMD Power Inductor

CD54



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

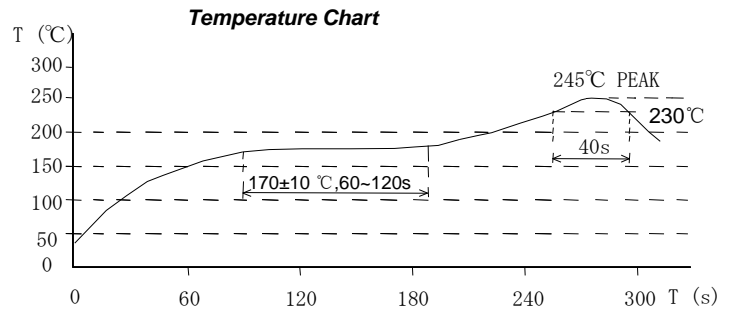
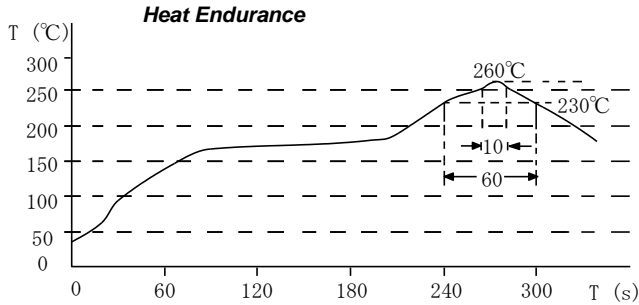


Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor CD54



Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.