

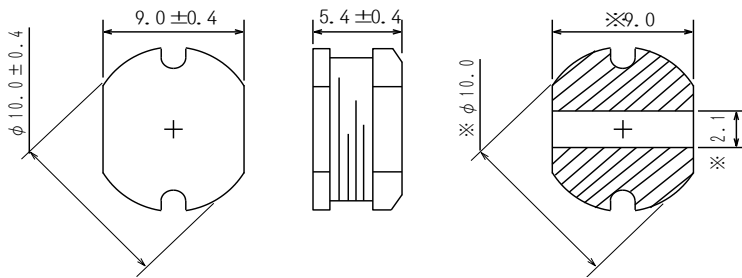
SMD Power Inductor CD105/T125



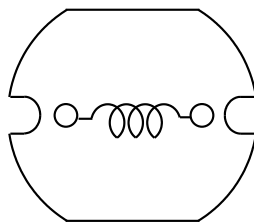
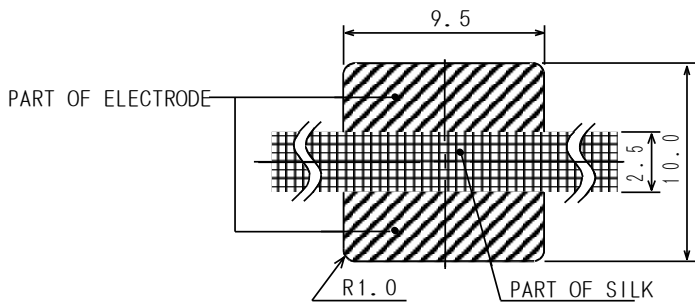
Description

- 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.
- Qualification to AEC-Q200.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

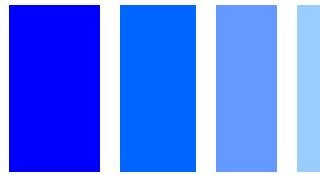
- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

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

Applications

- Automotive and other high temperature, high reliability application.



Electrical Characteristics

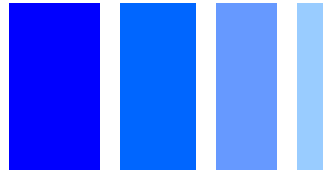
| Part No. | Stamp | Inductance [Within] (μH) ※1 | D.C.R. (Ω) [Max.] (at 20°C) | Saturation current (A) (at 20°C) ※2 | Temperature rise current (A) ※3 |
|-------------------|-------|--|---|--|---------------------------------------|
| CD105T125NP-100MC | 100M | 10 $\mu\text{H} \pm 20\%$ | 0.06 | 4.00 | 4.00 |
| CD105T125NP-120MC | 120M | 12 $\mu\text{H} \pm 20\%$ | 0.07 | 3.54 | 3.93 |
| CD105T125NP-150MC | 150M | 15 $\mu\text{H} \pm 20\%$ | 0.08 | 3.17 | 3.57 |
| CD105T125NP-180MC | 180M | 18 $\mu\text{H} \pm 20\%$ | 0.09 | 3.00 | 3.50 |
| CD105T125NP-220MC | 220M | 22 $\mu\text{H} \pm 20\%$ | 0.10 | 2.66 | 3.30 |
| CD105T125NP-270MC | 270M | 27 $\mu\text{H} \pm 20\%$ | 0.11 | 2.45 | 2.84 |
| CD105T125NP-330MC | 330M | 33 $\mu\text{H} \pm 20\%$ | 0.12 | 2.20 | 2.58 |
| CD105T125NP-390MC | 390M | 39 $\mu\text{H} \pm 20\%$ | 0.14 | 2.02 | 2.55 |
| CD105T125NP-470KC | 470K | 47 $\mu\text{H} \pm 10\%$ | 0.17 | 1.92 | 2.25 |
| CD105T125NP-560KC | 560K | 56 $\mu\text{H} \pm 10\%$ | 0.19 | 1.81 | 2.06 |
| CD105T125NP-680KC | 680K | 68 $\mu\text{H} \pm 10\%$ | 0.22 | 1.65 | 1.80 |
| CD105T125NP-820KC | 820K | 82 $\mu\text{H} \pm 10\%$ | 0.25 | 1.50 | 1.76 |
| CD105T125NP-101KC | 101K | 100 $\mu\text{H} \pm 10\%$ | 0.35 | 1.31 | 1.42 |
| CD105T125NP-121KC | 121K | 120 $\mu\text{H} \pm 10\%$ | 0.40 | 1.22 | 1.40 |
| CD105T125NP-151KC | 151K | 150 $\mu\text{H} \pm 10\%$ | 0.47 | 1.10 | 1.20 |
| CD105T125NP-181KC | 181K | 180 $\mu\text{H} \pm 10\%$ | 0.63 | 0.99 | 1.12 |
| CD105T125NP-221KC | 221K | 220 $\mu\text{H} \pm 10\%$ | 0.73 | 0.89 | 1.01 |
| CD105T125NP-271KC | 271K | 270 $\mu\text{H} \pm 10\%$ | 0.97 | 0.81 | 0.83 |
| CD105T125NP-331KC | 331K | 330 $\mu\text{H} \pm 10\%$ | 1.15 | 0.72 | 0.76 |
| CD105T125NP-391KC | 391K | 390 $\mu\text{H} \pm 10\%$ | 1.30 | 0.63 | 0.65 |
| CD105T125NP-471KC | 471K | 470 $\mu\text{H} \pm 10\%$ | 1.48 | 0.60 | 0.61 |
| CD105T125NP-561KC | 561K | 560 $\mu\text{H} \pm 10\%$ | 1.90 | 0.56 | 0.59 |
| CD105T125NP-681KC | 681K | 680 $\mu\text{H} \pm 10\%$ | 2.25 | 0.52 | 0.56 |
| CD105T125NP-821KC | 821K | 820 $\mu\text{H} \pm 10\%$ | 2.55 | 0.48 | 0.54 |

※1 Measuring frequency 10 $\mu\text{H} \sim 82\mu\text{H}$; at 2.52 MHz
 100 $\mu\text{H} \sim 820\mu\text{H}$; at 1 kHz

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 10% lower than its initial value.($T_a=20^\circ\text{C}$)

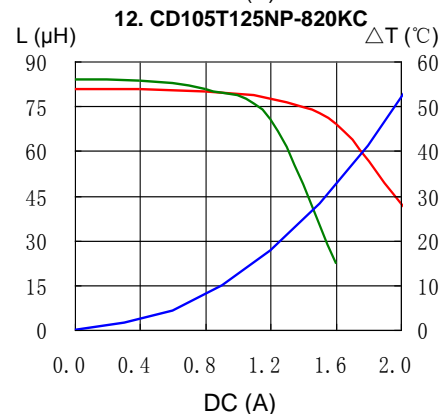
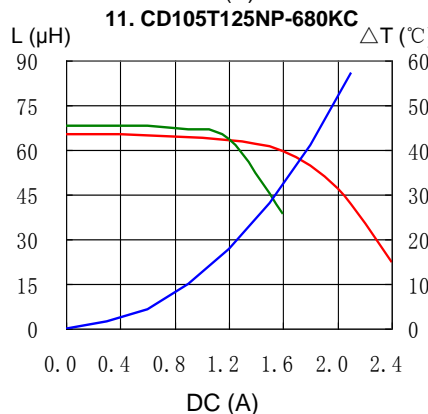
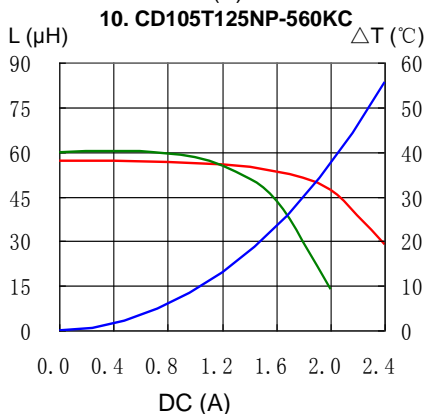
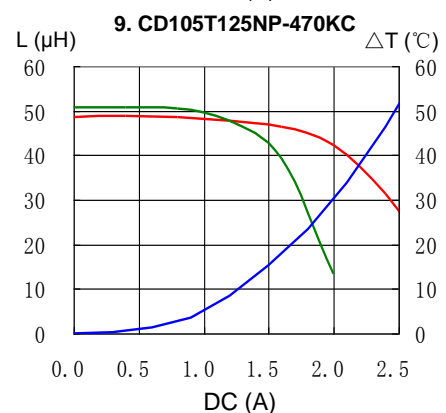
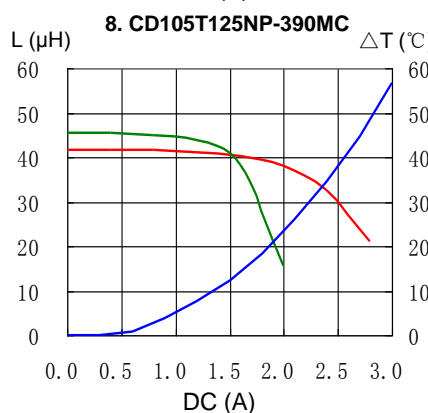
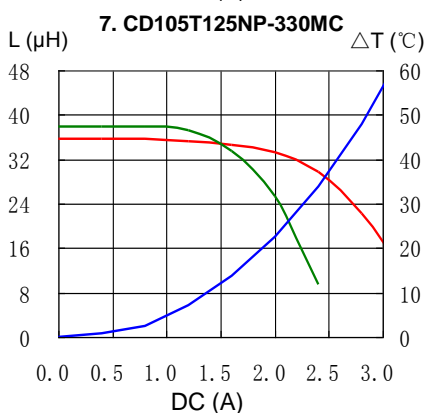
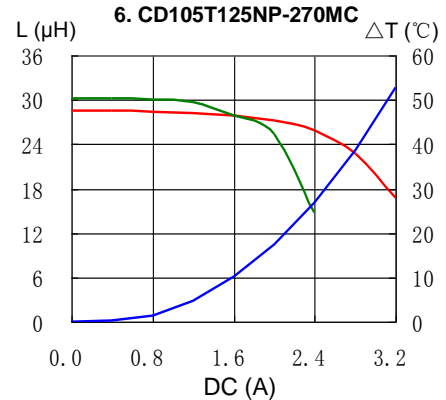
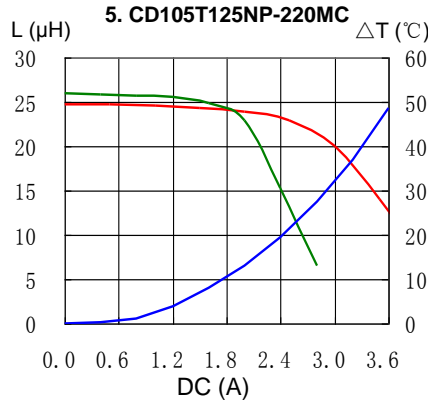
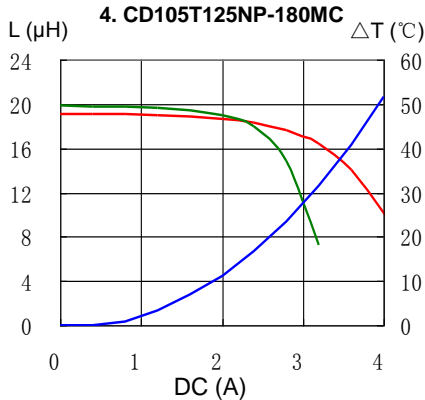
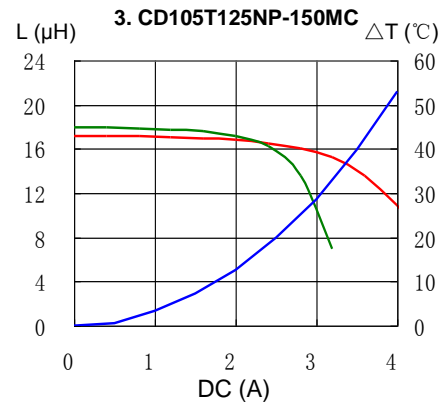
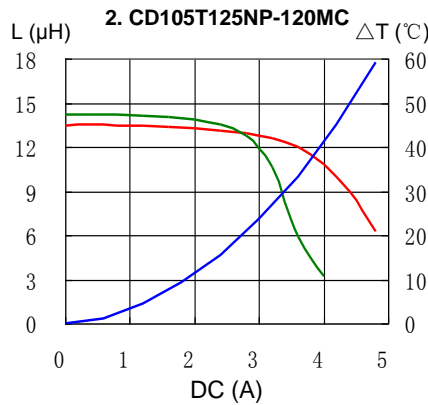
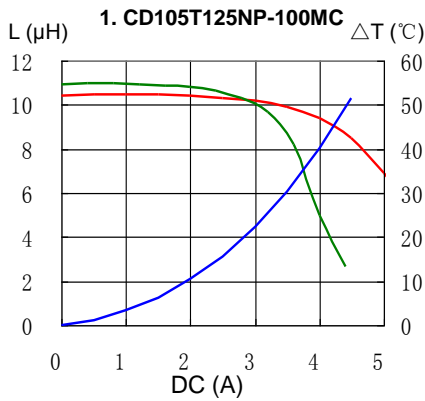
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

SMD Power Inductor CD105/T125



Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) — ΔT

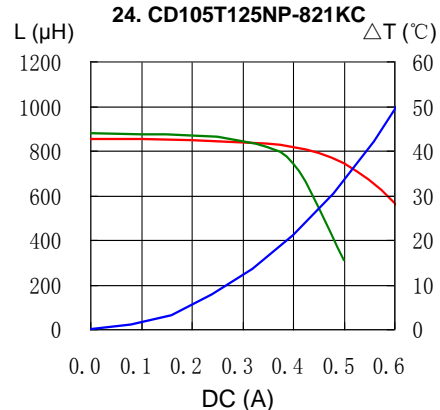
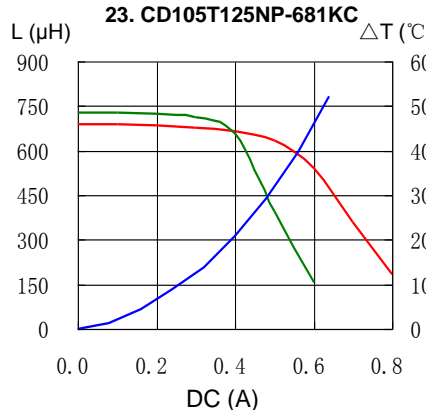
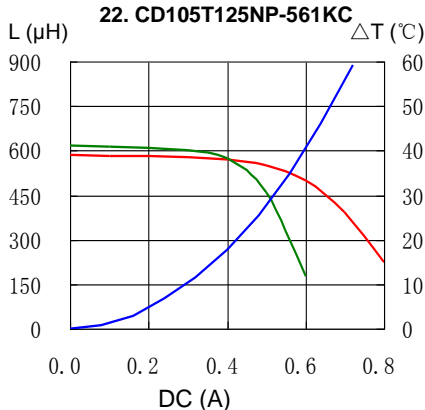
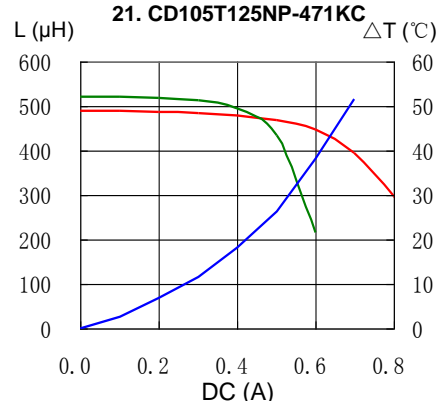
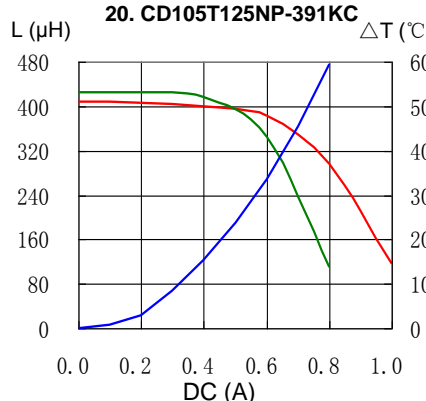
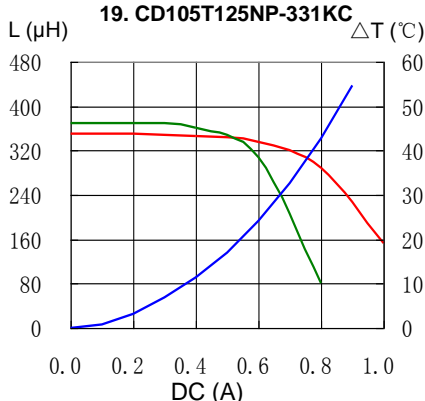
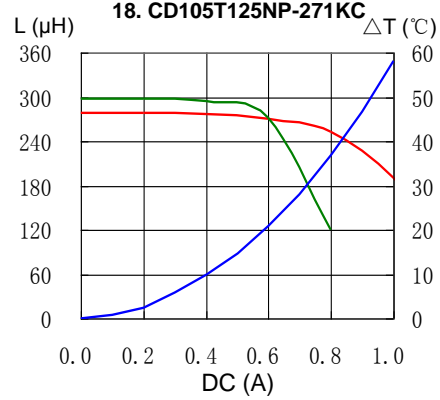
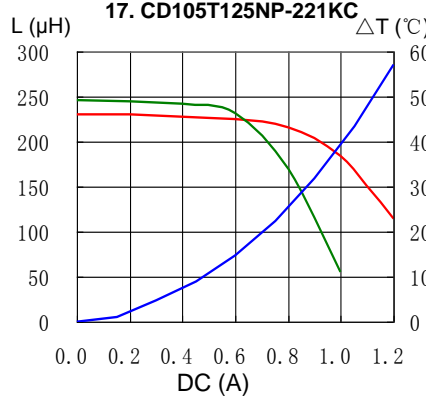
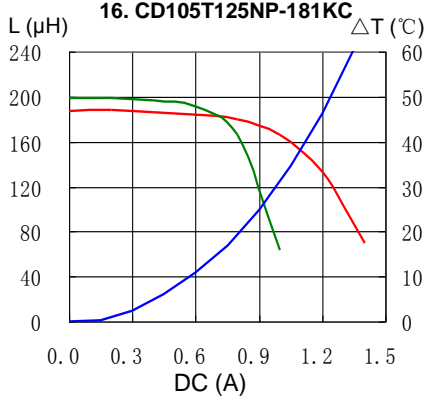
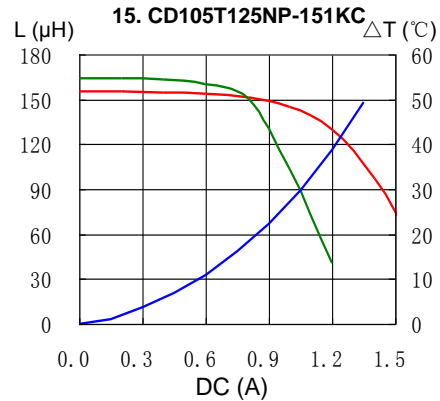
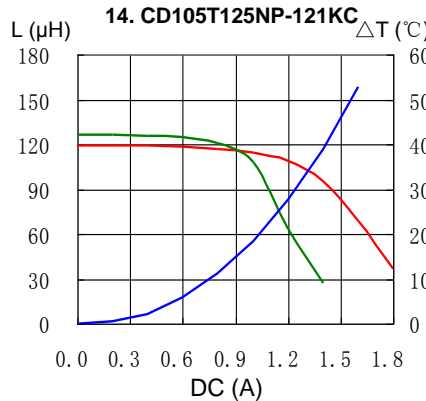
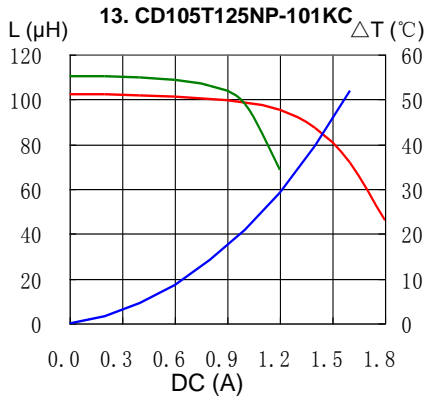


SMD Power Inductor CD105/T125



Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) — ΔT

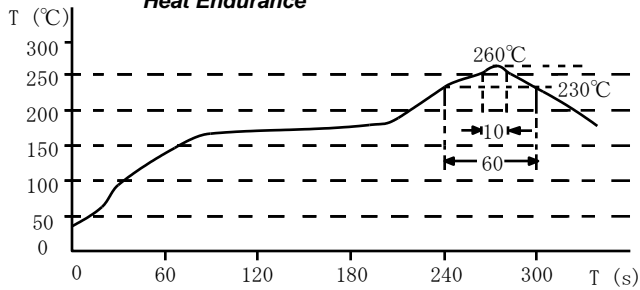


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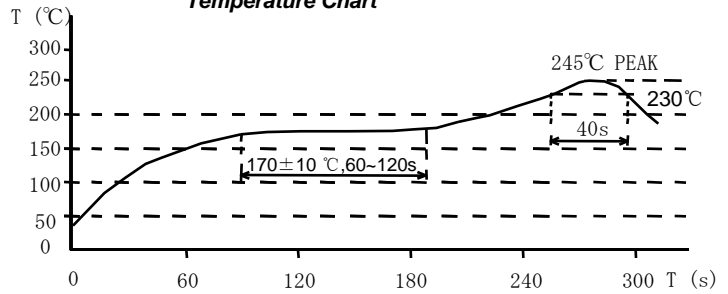


Solder Reflow Condition

Heat Endurance



Temperature Chart



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