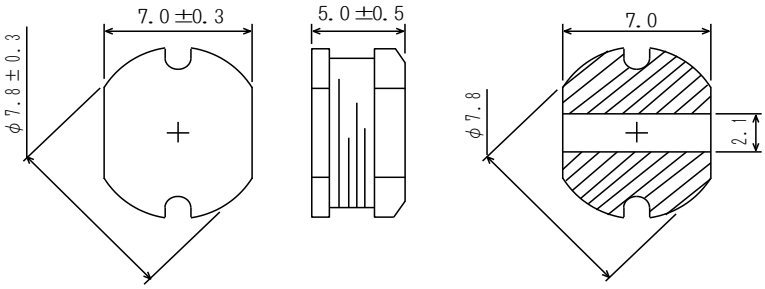
SMD Power Inductor
CD75/T125

Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.1 × 7.3 × 5.5mm Max.
- Product weight: 0.76g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

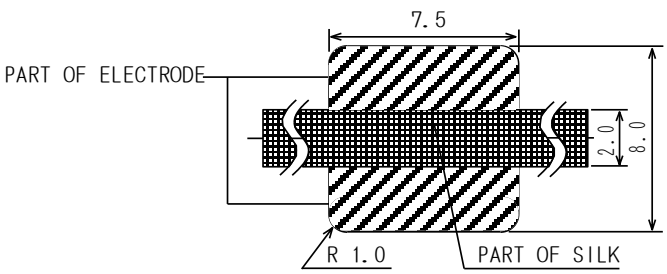
Dimension - [mm]



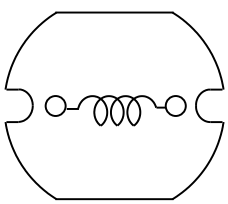
Environmental Data
- Operating temperature range: -40℃～+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+125℃
- Solder reflow temperature: 260 ℃ peak.

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

Land pattern and Schematics - [mm]



Applications
- Automotive and other high temperature, high reliability application.



Revised: 10-Jan-17

Electrical Characteristics

Part No.	Stamp	Inductance [Within] ※1	D.C.R. (Ω) [Max.] (at 20℃)	Saturation current (A) (at 20℃) ※2	Temperature rise current (A) ※3
CD75T125NP-100KC	100K	10μH±10%	0.07	2.80	3.18
CD75T125NP-120KC	120K	12μH±10%	0.08	2.45	3.15
CD75T125NP-150KC	150K	15μH±10%	0.09	2.16	3.02
CD75T125NP-180KC	180K	18μH±10%	0.10	2.00	2.80
CD75T125NP-220KC	220K	22μH±10%	0.11	1.80	2.63
CD75T125NP-270KC	270K	27μH±10%	0.12	1.66	2.46
CD75T125NP-330KC	330K	33μH±10%	0.13	1.51	2.35
CD75T125NP-390KC	390K	39μH±10%	0.16	1.39	2.05
CD75T125NP-470KC	470K	47μH±10%	0.18	1.26	1.95
CD75T125NP-560KC	560K	56μH±10%	0.24	1.22	1.72
CD75T125NP-680KC	680K	68μH±10%	0.28	1.06	1.48
CD75T125NP-820KC	820K	82μH±10%	0.37	0.95	1.34
CD75T125NP-101KC	101K	100μH±10%	0.43	0.90	1.29
CD75T125NP-121KC	121K	120μH±10%	0.47	0.87	1.17
CD75T125NP-151KC	151K	150μH±10%	0.64	0.73	0.96
CD75T125NP-181KC	181K	180μH±10%	0.71	0.63	0.93
CD75T125NP-221KC	221K	220μH±10%	0.96	0.61	0.80
CD75T125NP-271KC	271K	270μH±10%	1.11	0.54	0.74
CD75T125NP-331KC	331K	330μH±10%	1.26	0.51	0.72
CD75T125NP-391KC	391K	390μH±10%	1.77	0.47	0.64
CD75T125NP-471KC	471K	470μH±10%	1.96	0.43	0.60

※1 Measuring frequency 10μH ～ 82μH ； at 2.52 MHz
100μH ～820μH ； at 1 kHz

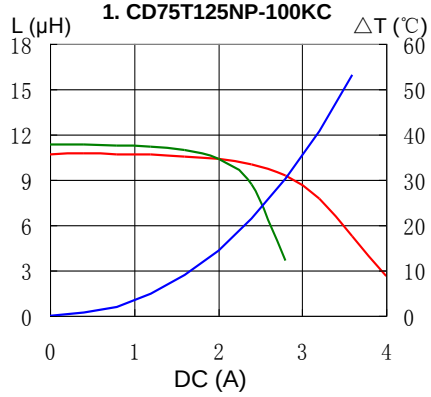
※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 10% lower than its initial value.(Ta＝20℃)

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes △T=40℃ (Ta＝20℃).

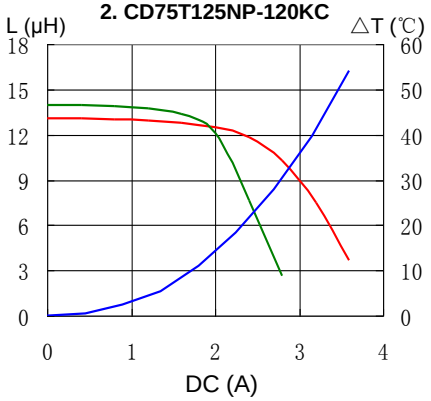
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

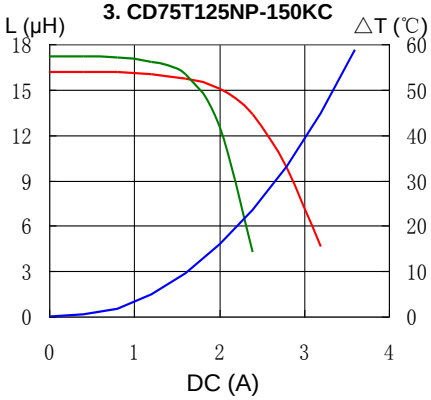
1. CD75T125NP-100KC



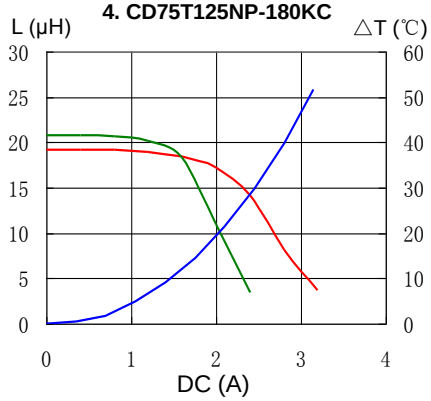
2. CD75T125NP-120KC



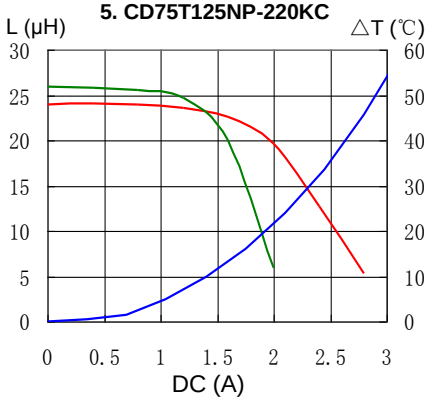
3. CD75T125NP-150KC



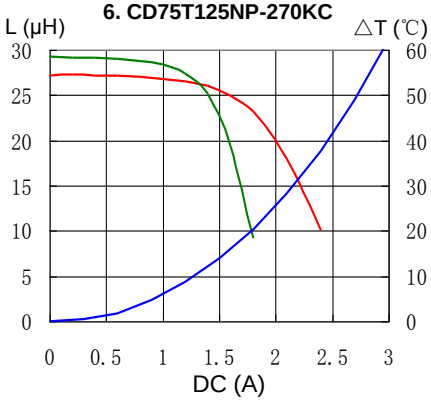
4. CD75T125NP-180KC



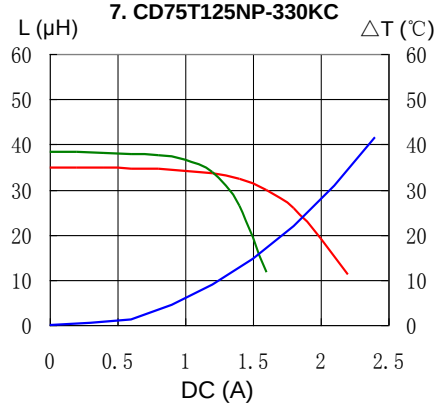
5. CD75T125NP-220KC



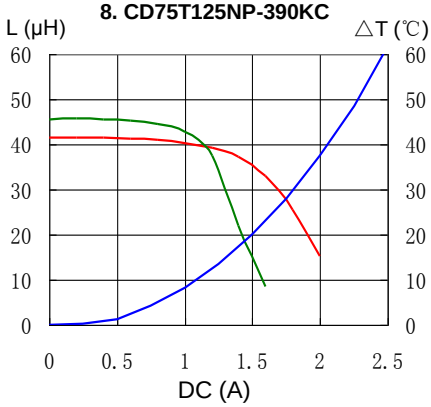
6. CD75T125NP-270KC



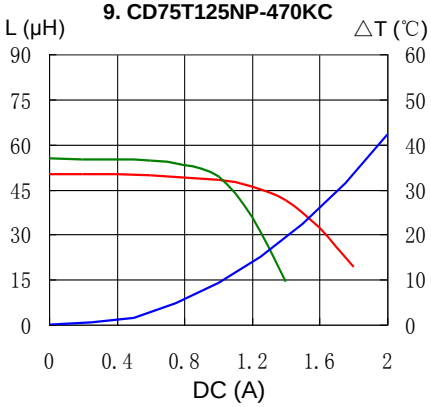
7. CD75T125NP-330KC



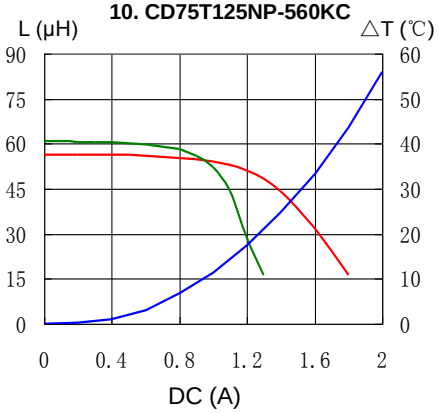
8. CD75T125NP-390KC



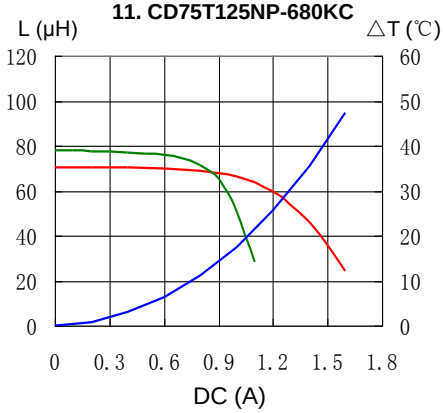
9. CD75T125NP-470KC



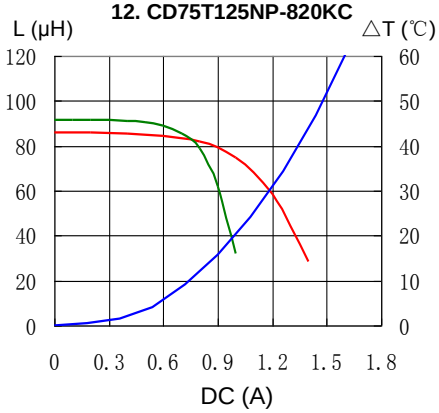
10. CD75T125NP-560KC



11. CD75T125NP-680KC



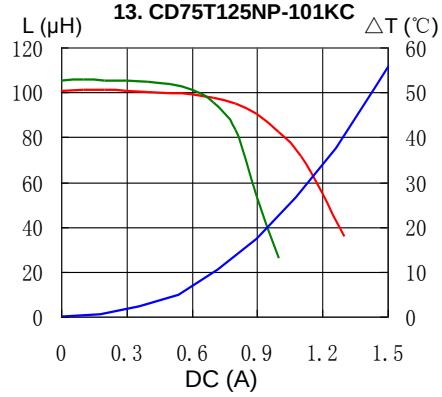
12. CD75T125NP-820KC



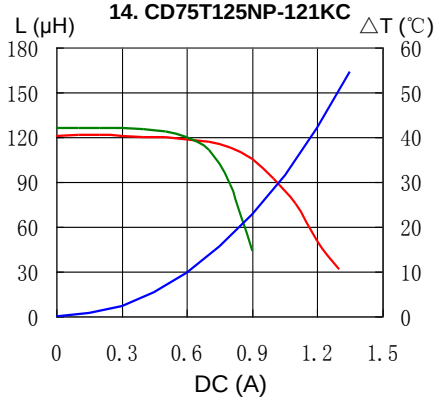
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

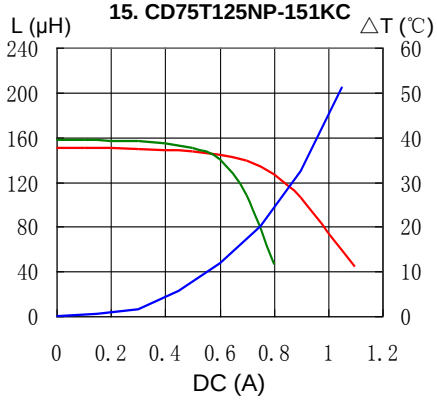
13. CD75T125NP-101KC



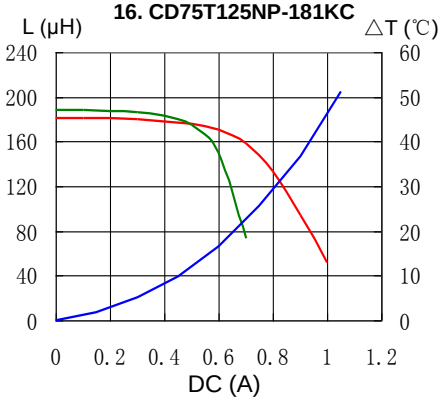
14. CD75T125NP-121KC



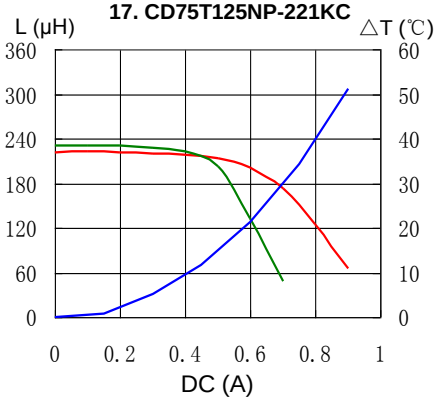
15. CD75T125NP-151KC



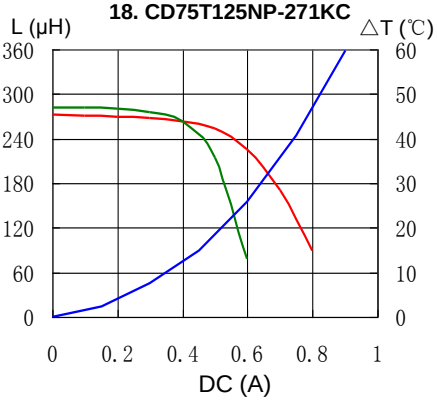
16. CD75T125NP-181KC



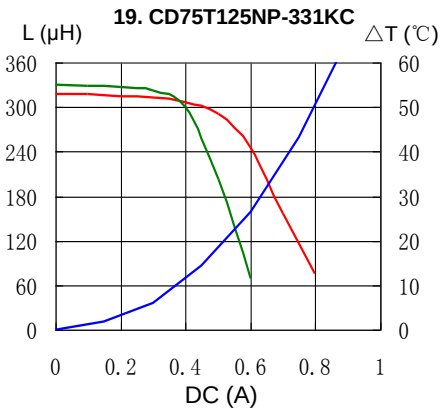
17. CD75T125NP-221KC



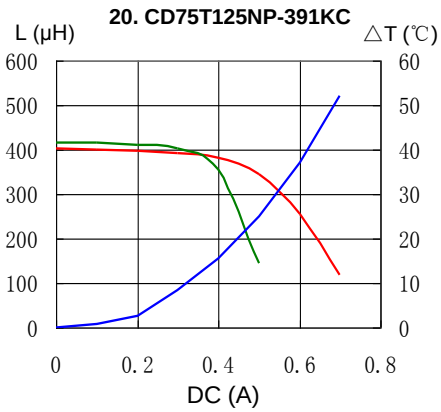
18. CD75T125NP-271KC



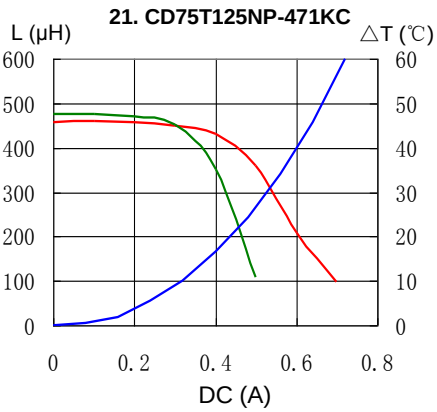
19. CD75T125NP-331KC



20. CD75T125NP-391KC

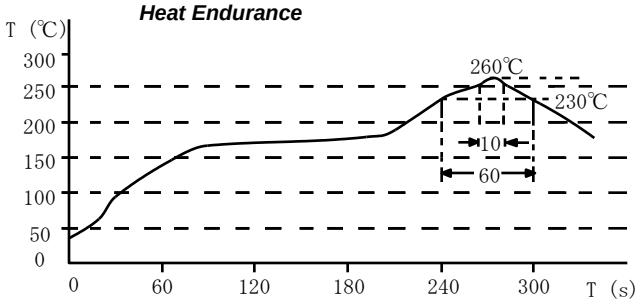


21. CD75T125NP-471KC



Solder Reflow Condition

Heat Endurance



Temperature Chart