

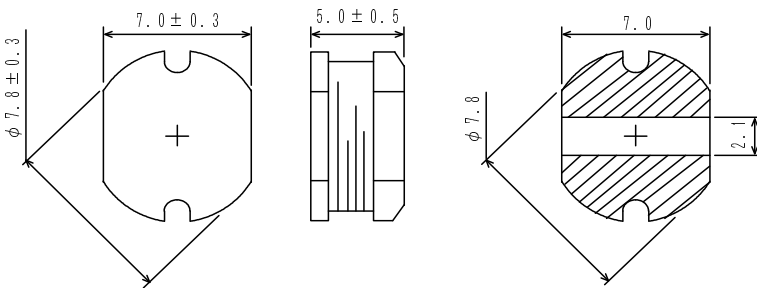
# SMD Power Inductor CD75/T125



## 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]



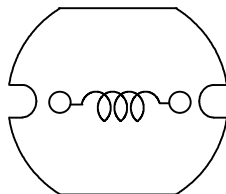
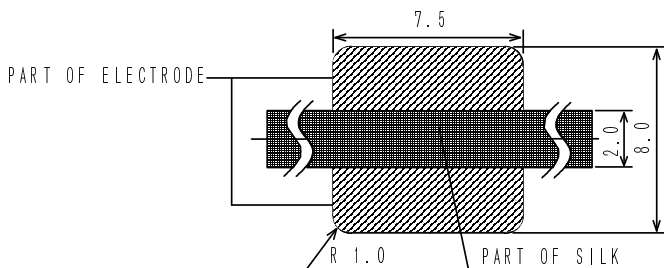
## Environmental Data

- Operating temperature range: -40°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

## Land pattern and Schematics - [mm]



## Applications

- Automotive and other high temperature, high reliability application.

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## Electrical Characteristics

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

※1 Measuring frequency 10  $\mu$  H  $\sim$  82  $\mu$  H ; at 2.52 MHz  
100  $\mu$  H  $\sim$  820  $\mu$  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. (Ta=20°C)

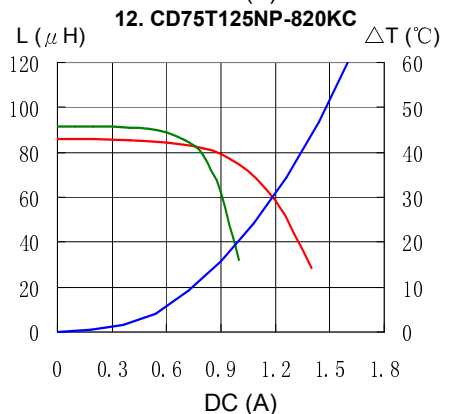
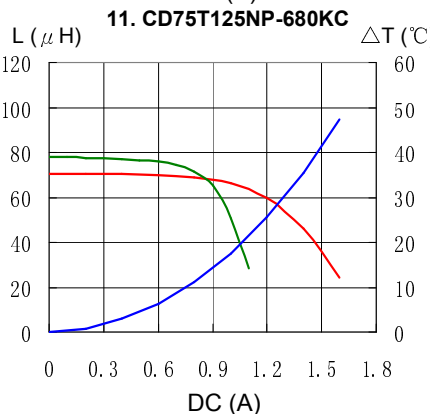
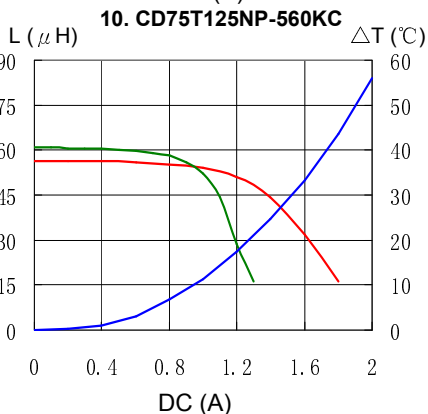
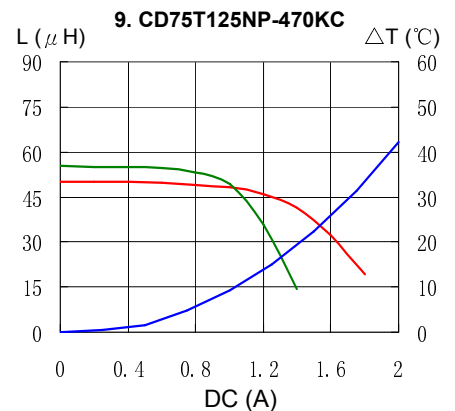
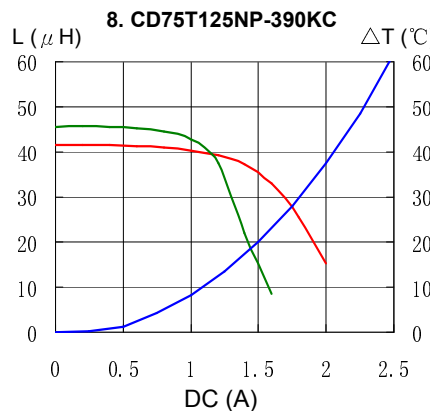
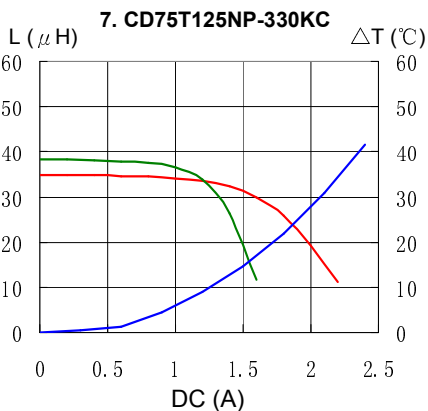
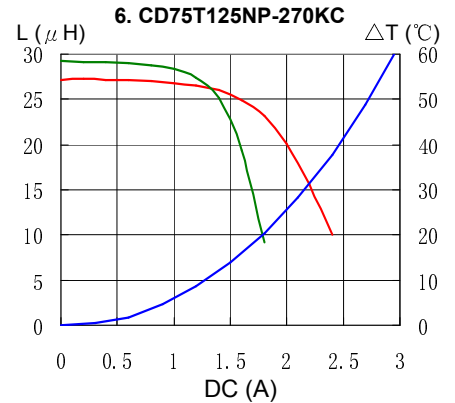
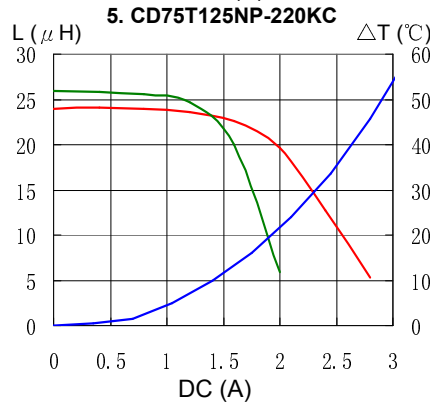
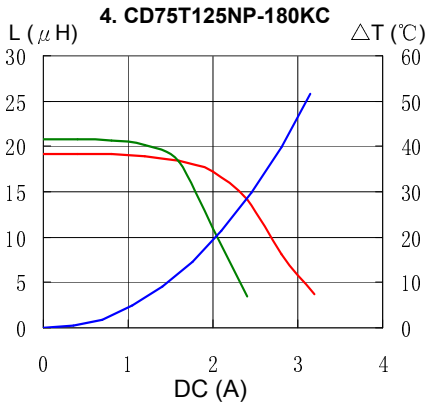
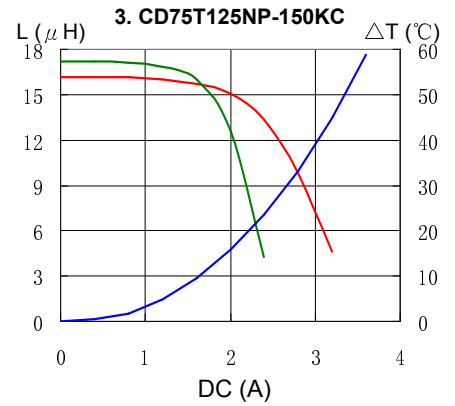
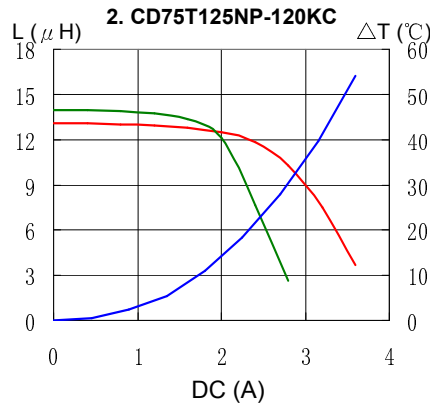
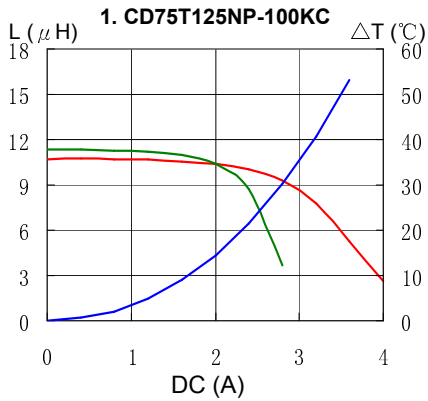
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes  $\Delta T=40^\circ\text{C}$  (Ta=20°C).

# SMD Power Inductor CD75/T125



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

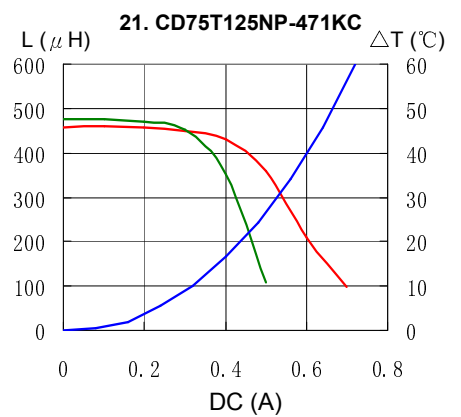
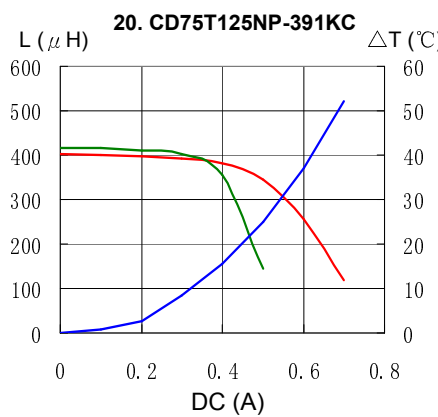
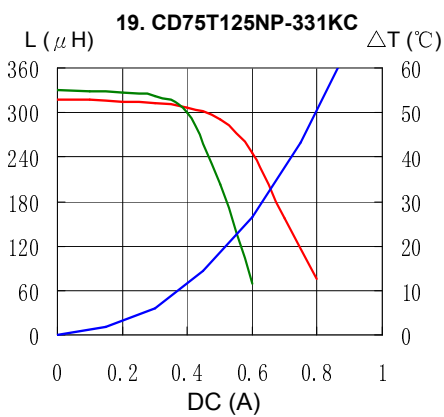
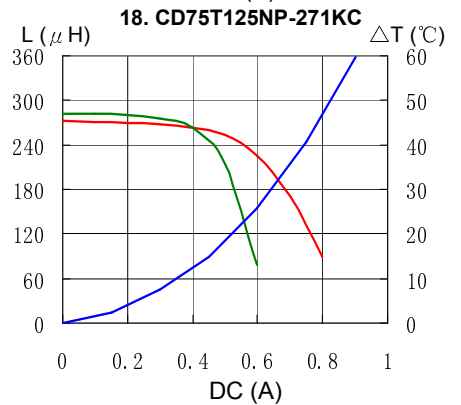
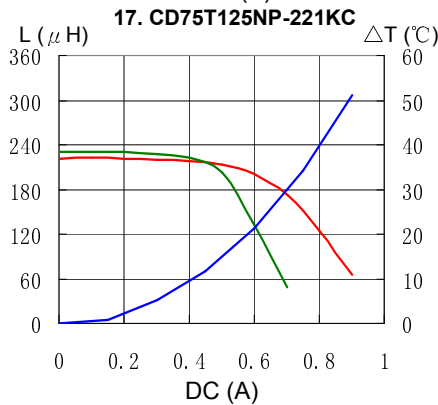
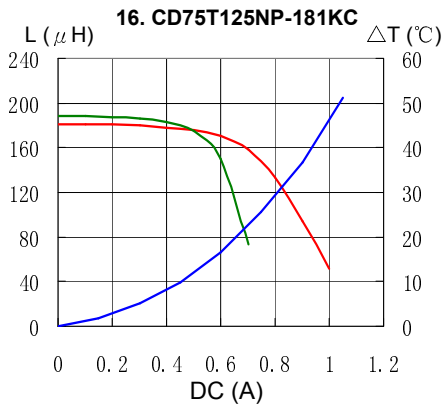
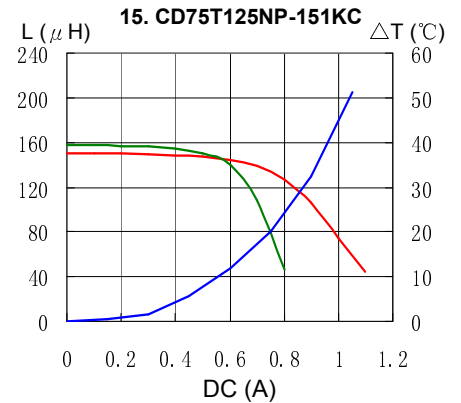
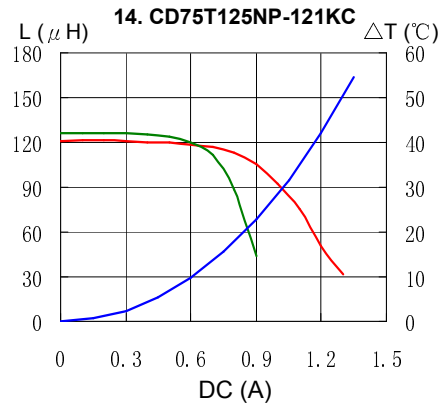
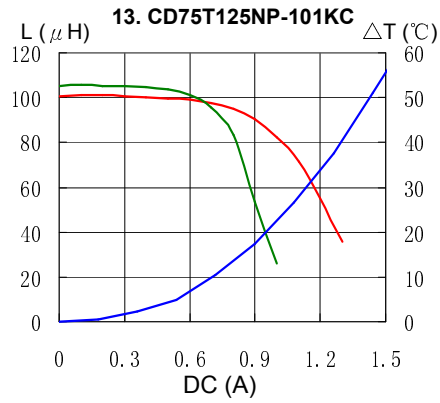


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## Saturation Current & Temperature Rise Graph

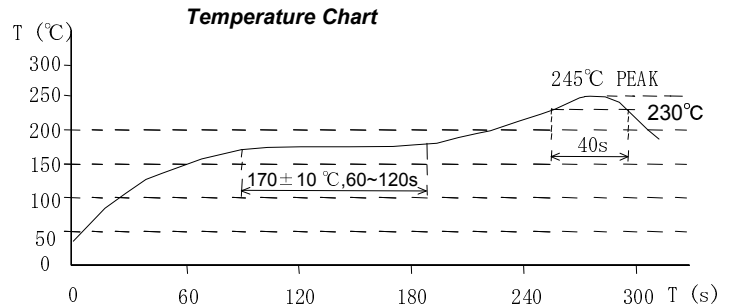
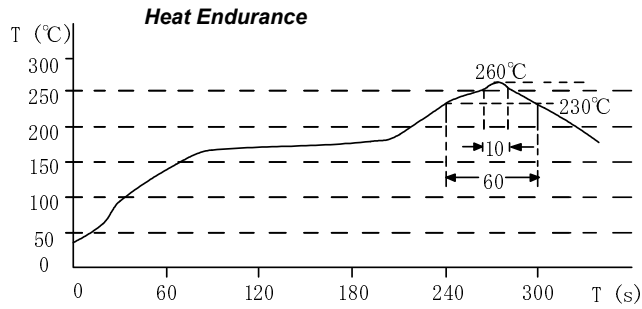
— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor CD75/T125



## Solder Reflow Condition



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