

# SMD Power Inductor CDRR7D45/T125



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.2 × 7.2 × 4.8 mm Max.
- Product weight: 0.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualified to AEC-Q200.

## 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.

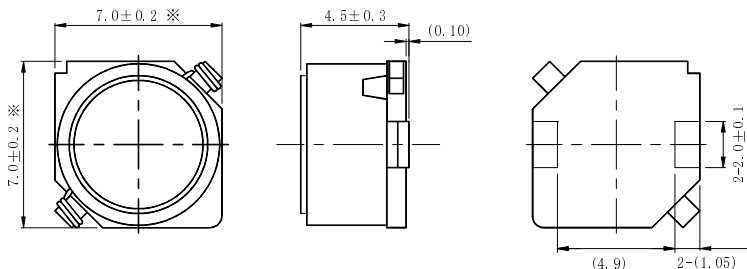
## Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 1000pcs per reel

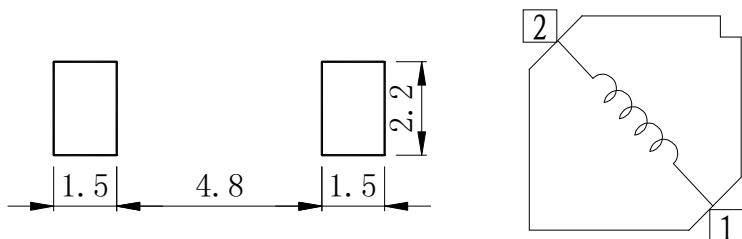
## Applications

- Automotive and other high temperature, high reliability application.

## Dimension - [mm]

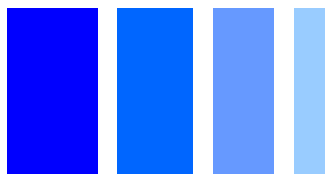


## Land pattern and Schematics - [mm]



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### Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [Within] ※1	D.C.R. (m $\Omega$ ) [Within] (at 25°C)	Saturation current (A) ※2	Temperature rise current (A) ※3
CDRR7D45T125NP-3R3MC	3R3	3.3 $\pm$ 20%	28 $\pm$ 20%	3.5	3.2
CDRR7D45T125NP-4R7MC	4R7	4.7 $\pm$ 20%	31 $\pm$ 20%	2.8	2.9
CDRR7D45T125NP-6R8MC	6R8	6.8 $\pm$ 20%	39 $\pm$ 20%	2.4	2.45
CDRR7D45T125NP-100MC	100	10 $\pm$ 20%	47 $\pm$ 20%	1.96	2.25
CDRR7D45T125NP-150MC	150	15 $\pm$ 20%	68 $\pm$ 20%	1.64	1.85
CDRR7D45T125NP-220MC	220	22 $\pm$ 20%	82 $\pm$ 20%	1.36	1.60
CDRR7D45T125NP-330MC	330	33 $\pm$ 20%	120 $\pm$ 20%	1.12	1.30
CDRR7D45T125NP-470MC	470	47 $\pm$ 20%	180 $\pm$ 20%	0.94	1.10
CDRR7D45T125NP-680MC	680	68 $\pm$ 20%	270 $\pm$ 20%	0.78	0.90
CDRR7D45T125NP-101MC	101	100 $\pm$ 20%	390 $\pm$ 20%	0.62	0.73
CDRR7D45T125NP-151MC	151	150 $\pm$ 20%	550 $\pm$ 20%	0.52	0.65
CDRR7D45T125NP-221MC	221	220 $\pm$ 20%	830 $\pm$ 20%	0.44	0.54
CDRR7D45T125NP-331MC	331	330 $\pm$ 20%	1150 $\pm$ 20%	0.35	0.44
CDRR7D45T125NP-471MC	471	470 $\pm$ 20%	1800 $\pm$ 20%	0.31	0.36

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

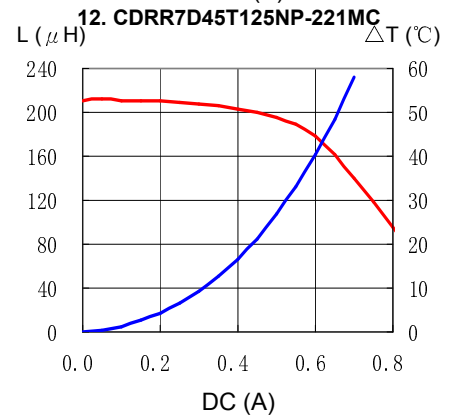
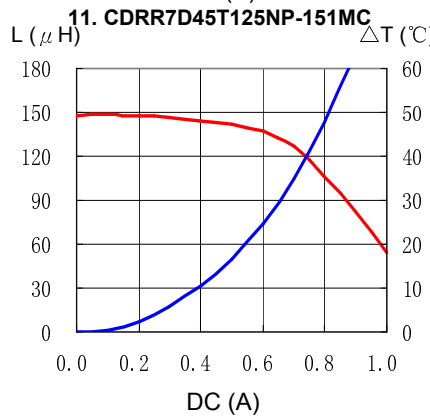
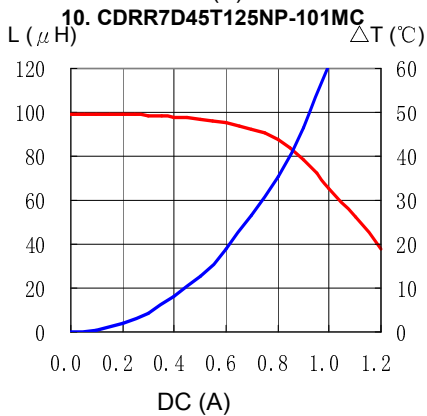
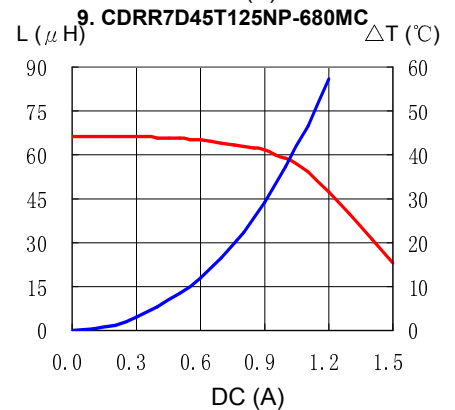
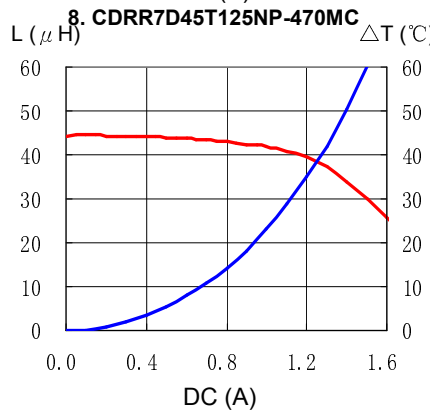
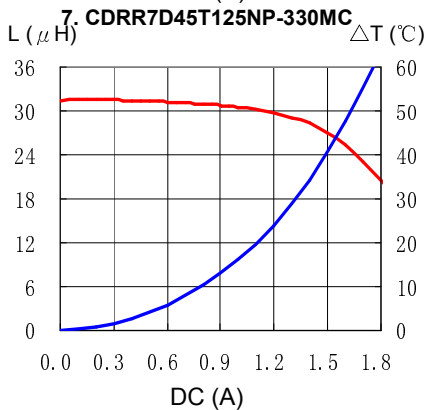
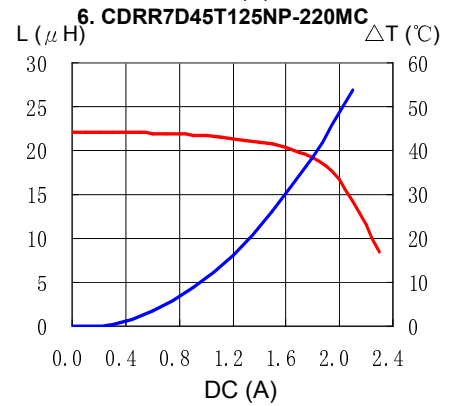
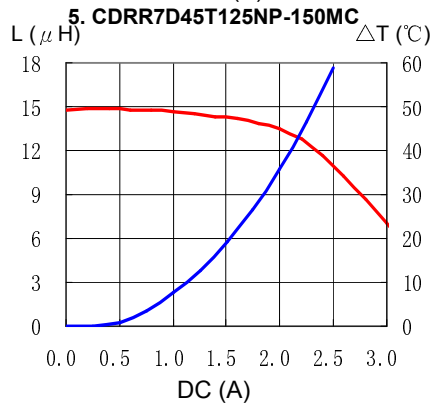
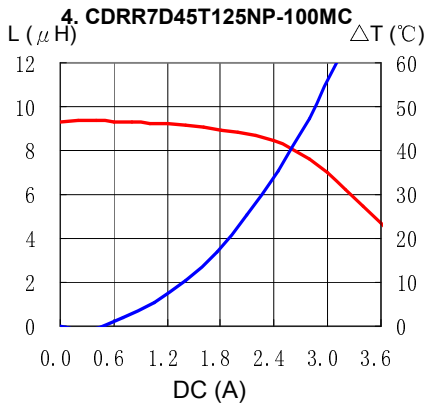
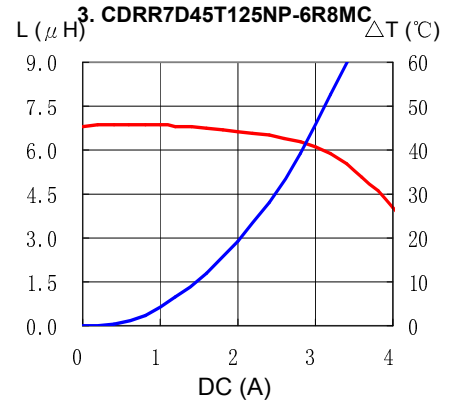
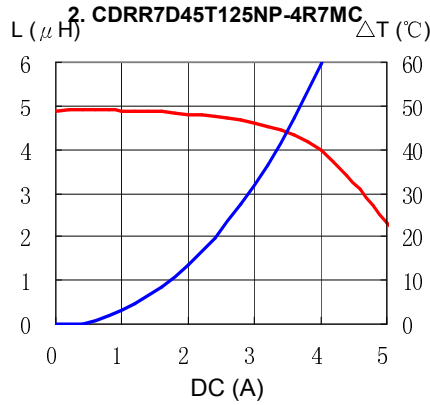
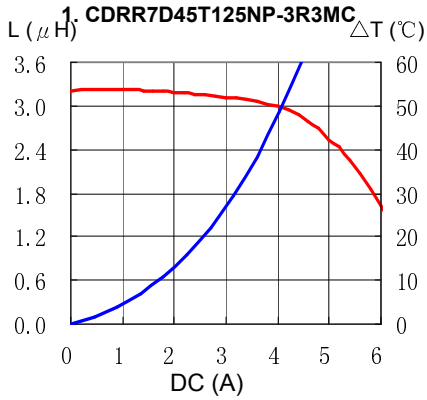
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$

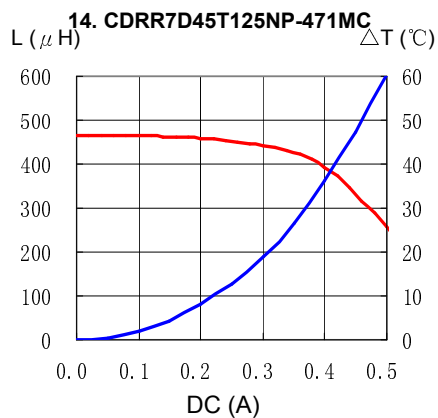
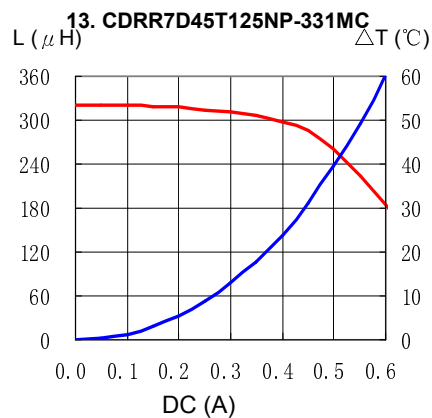


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## Saturation Current & Temperature Rise Graph

— L (20°C)      —  $\Delta T$



## Solder Reflow Condition

