

# SMD Power Inductor CDRH8D48/A



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.5 × 8.5 × 5.0 mm Max.
- Product weight: 1.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

## Environmental Data

- Operating temperature range: -40°C~+125°C (excluding coil's self temperature rise).
- Storage temperature range: -40°C~+85°C
- Solder reflow temperature: 260 °C peak.

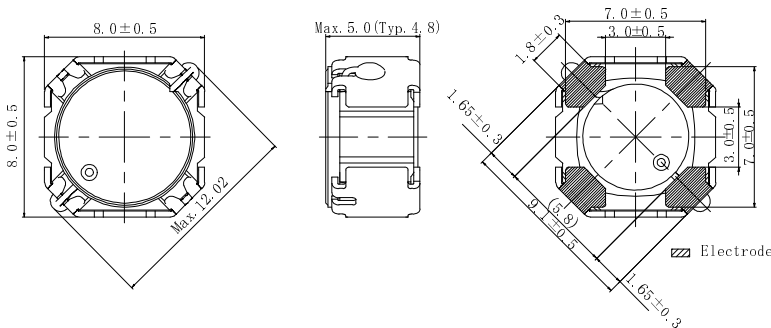
## Packaging

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

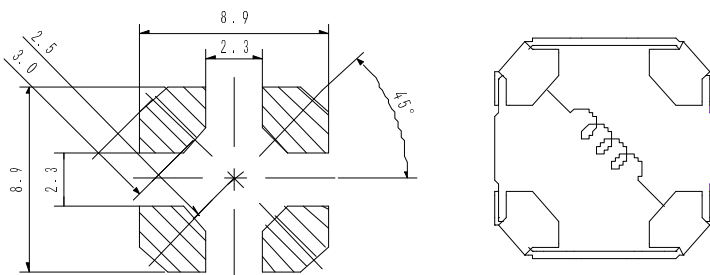
## Applications

- 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 $\Omega$ ) [Max.](Typ.) (at 20°C)	Rated current (A) (at 125°C) ※2
CDRH8D48/ANP-100MC	100	10 $\mu$ H $\pm$ 20%	38(30)	2.26
CDRH8D48/ANP-120MC	120	12 $\mu$ H $\pm$ 20%	50(40)	1.87
CDRH8D48/ANP-150MC	150	15 $\mu$ H $\pm$ 20%	63(50)	1.62
CDRH8D48/ANP-180MC	180	18 $\mu$ H $\pm$ 20%	75(60)	1.58
CDRH8D48/ANP-220MC	220	22 $\mu$ H $\pm$ 20%	88(70)	1.45
CDRH8D48/ANP-270MC	270	27 $\mu$ H $\pm$ 20%	106(85)	1.33
CDRH8D48/ANP-330MC	330	33 $\mu$ H $\pm$ 20%	125(100)	1.20
CDRH8D48/ANP-390MC	390	39 $\mu$ H $\pm$ 20%	156(125)	1.06
CDRH8D48/ANP-470MC	470	47 $\mu$ H $\pm$ 20%	188(150)	1.00
CDRH8D48/ANP-560MC	560	56 $\mu$ H $\pm$ 20%	238(190)	0.89
CDRH8D48/ANP-680MC	680	68 $\mu$ H $\pm$ 20%	275(220)	0.82
CDRH8D48/ANP-820MC	820	82 $\mu$ H $\pm$ 20%	312(250)	0.73
CDRH8D48/ANP-101MC	101	100 $\mu$ H $\pm$ 20%	394(315)	0.70
CDRH8D48/ANP-121MC	121	120 $\mu$ H $\pm$ 20%	438(350)	0.63
CDRH8D48/ANP-151MC	151	150 $\mu$ H $\pm$ 20%	580(465)	0.58

※1. Measuring condition: at 100 kHz.

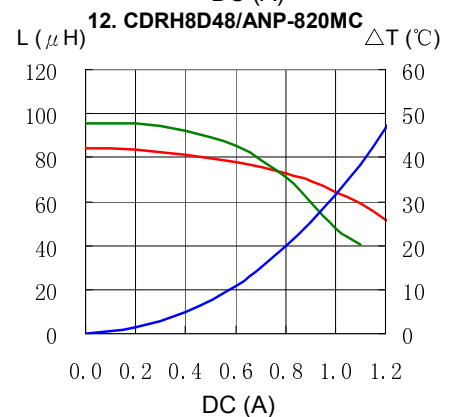
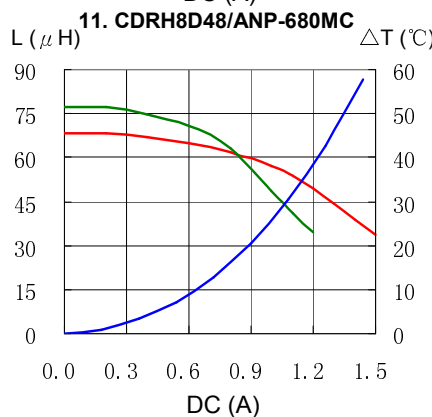
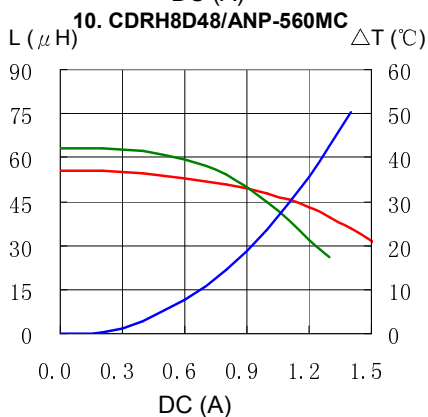
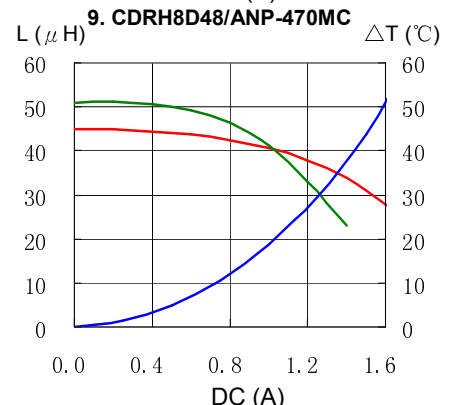
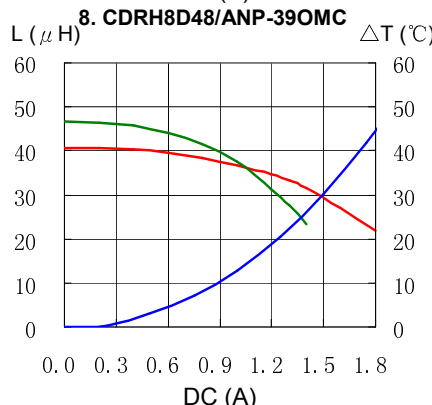
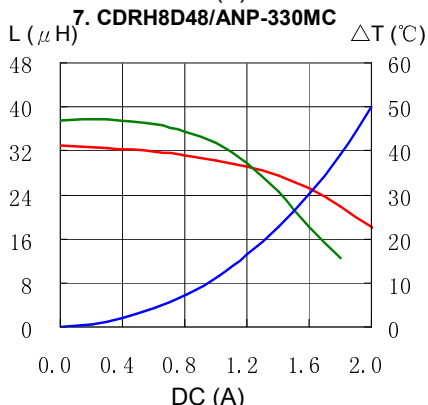
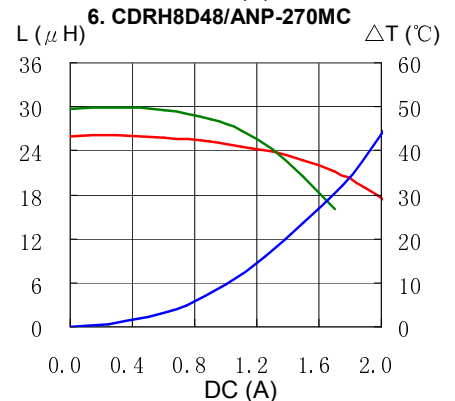
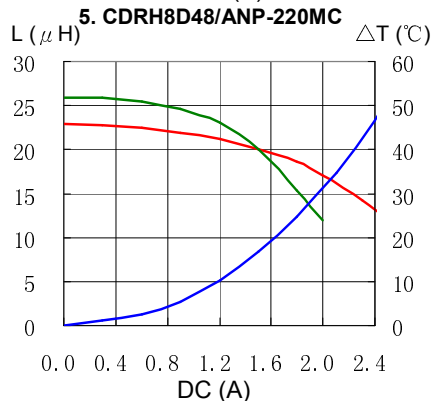
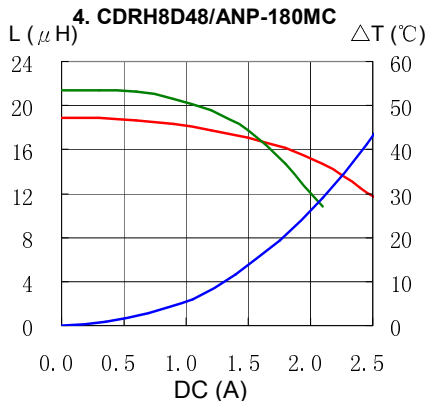
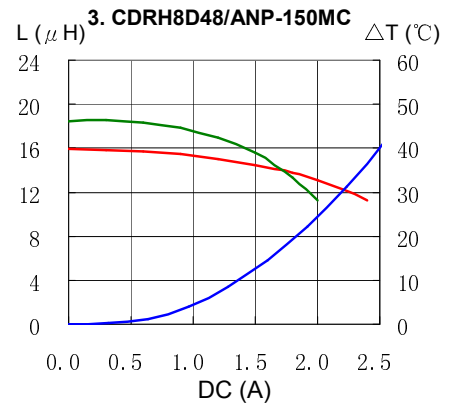
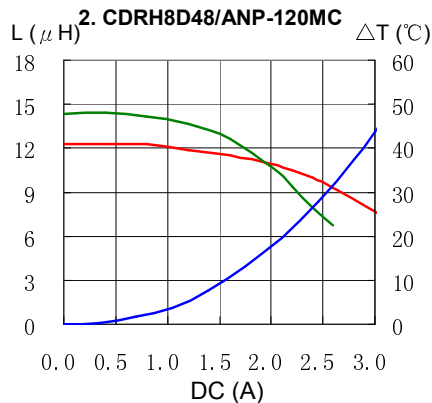
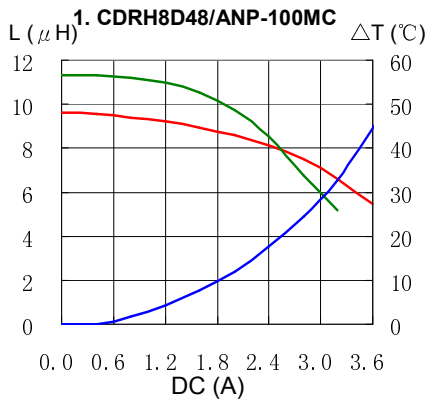
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=30^{\circ}\text{C}$ , whichever is lower .

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$

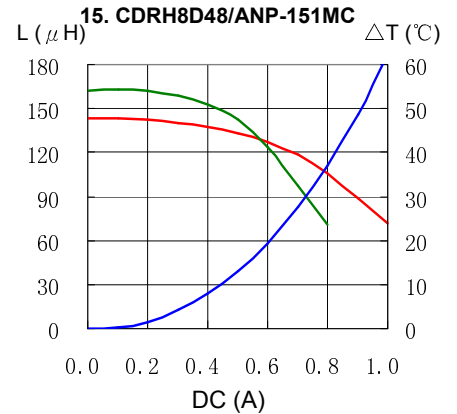
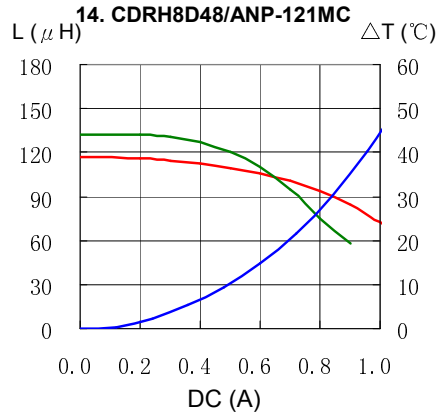
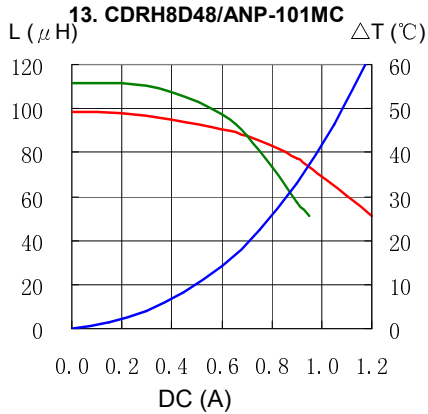


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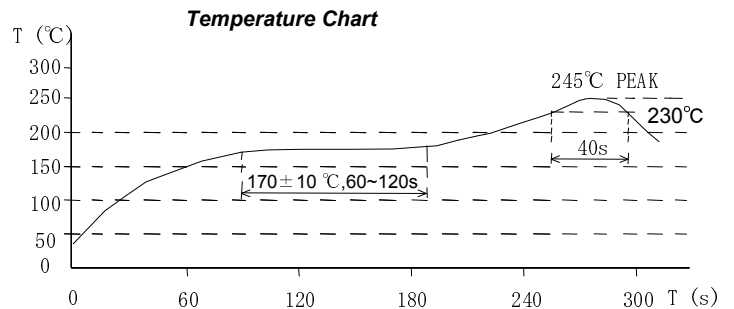
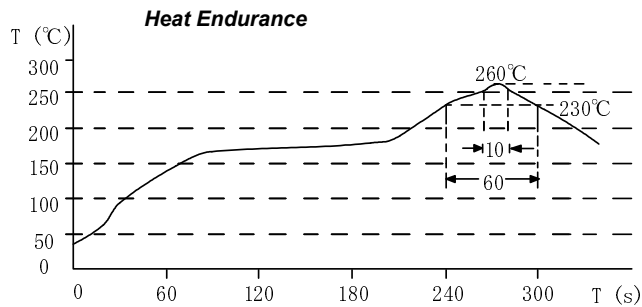


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$



## Solder Reflow Condition



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