

# SMD Power Inductor CDRH148R



## Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 15.0 × 15.0 × 8.5 mm Max.
- Product weight: 6.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

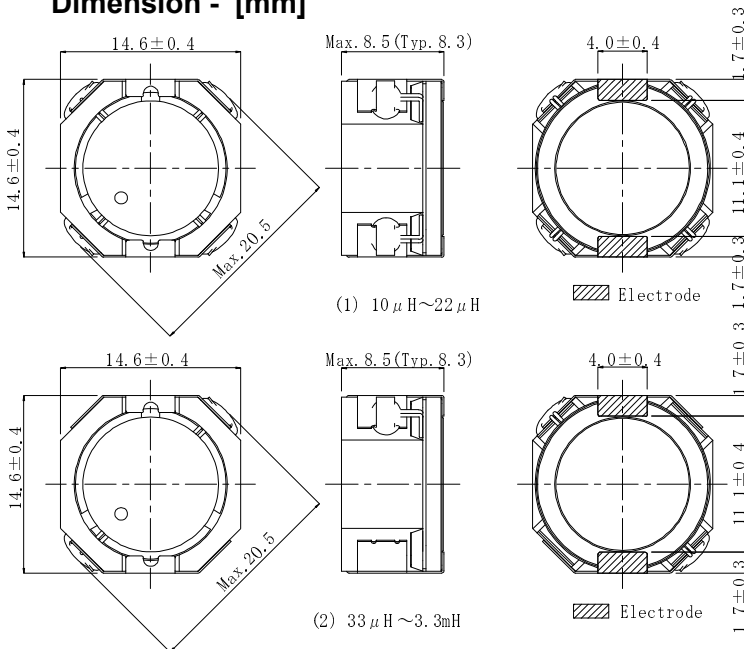
## Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 250pcs per reel

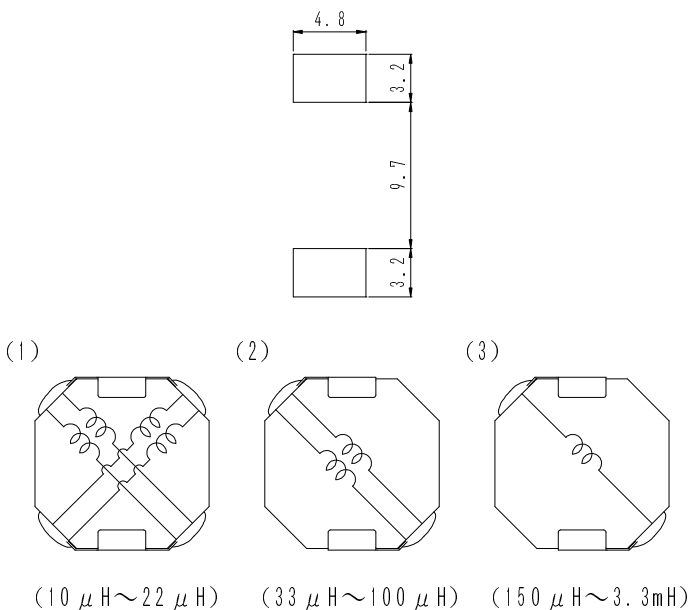
## Applications

- Ideally used in Game machine, Notebook PC, LCD TV, DVD, STB, Projector etc as DC-DC converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R. ( $\Omega$ ) [Max.] (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH148RNP-100MC	100	10 $\pm$ 20%	9.6m(7.7m)	10.8	7.30	7.80
CDRH148RNP-150MC	150	15 $\pm$ 20%	15m(12m)	8.40	5.70	6.10
CDRH148RNP-220MC	220	22 $\pm$ 20%	22m(18m)	7.20	4.90	5.00
CDRH148RNP-330MC	330	33 $\pm$ 20%	33m(27m)	5.80	3.90	4.10
CDRH148RNP-470MC	470	47 $\pm$ 20%	50m(40m)	4.90	3.30	3.20
CDRH148RNP-680MC	680	68 $\pm$ 20%	71m(57m)	4.00	2.70	2.70
CDRH148RNP-101MC	101	100 $\pm$ 20%	96m(77m)	3.30	2.20	2.40
CDRH148RNP-151MC	151	150 $\pm$ 20%	140m(112m)	2.80	1.90	2.00
CDRH148RNP-221MC	221	220 $\pm$ 20%	208m(167m)	2.30	1.50	1.60
CDRH148RNP-331MC	331	330 $\pm$ 20%	305m(244m)	1.90	1.30	1.30
CDRH148RNP-471MC	471	470 $\pm$ 20%	415m(332m)	1.60	1.00	1.10
CDRH148RNP-681MC	681	680 $\pm$ 20%	592m(474m)	1.30	0.86	0.93
CDRH148RNP-102MC	102	1000 $\pm$ 20%	0.81(0.65)	1.00	0.70	0.74
CDRH148RNP-152MC	152	1500 $\pm$ 20%	1.31(1.05)	0.88	0.59	0.61
CDRH148RNP-222MC	222	2200 $\pm$ 20%	1.89(1.51)	0.71	0.48	0.48
CDRH148RNP-332MC	332	3300 $\pm$ 20%	2.76(2.21)	0.57	0.38	0.39

※1 Inductance measuring condition: at 100kHz .

※2 Saturation current: The value of DC current when the inductance decreases to 65% of its nominal.

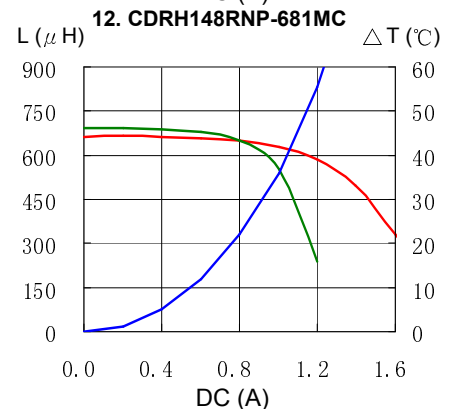
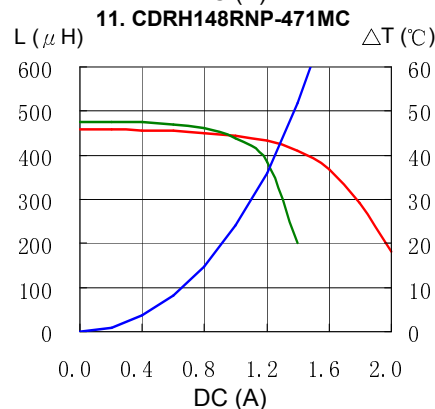
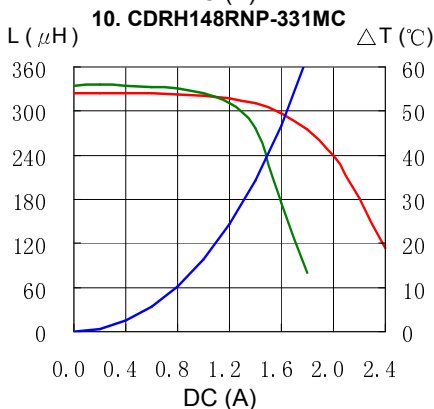
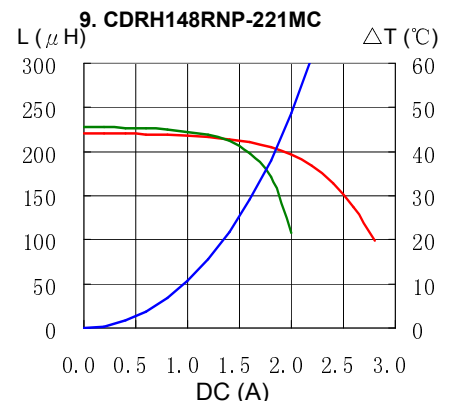
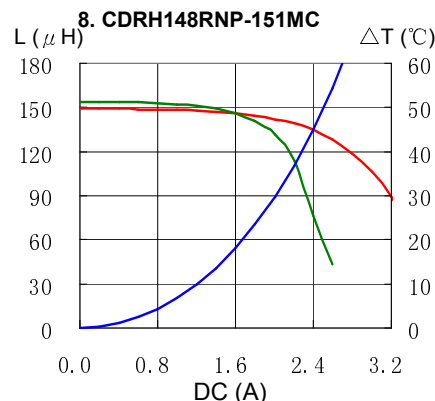
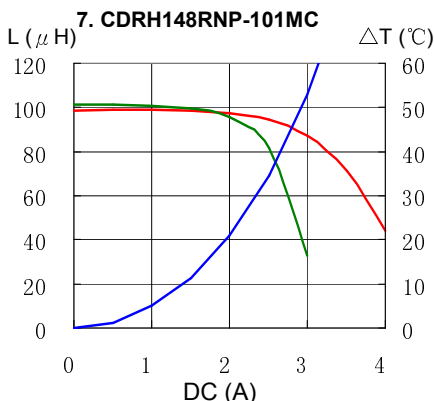
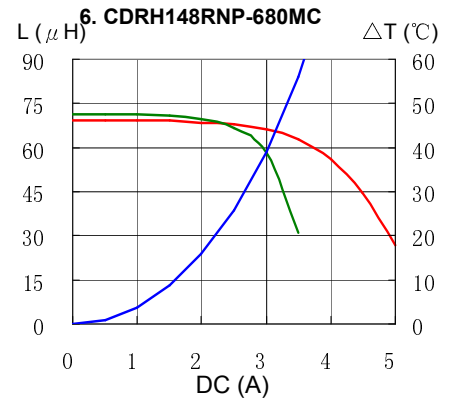
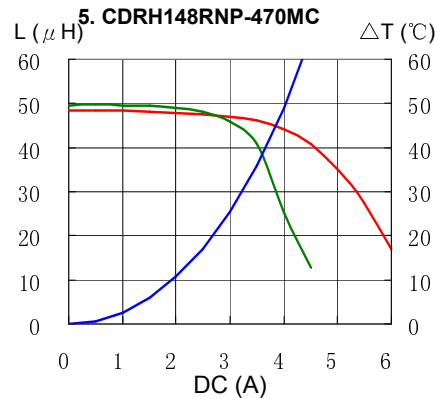
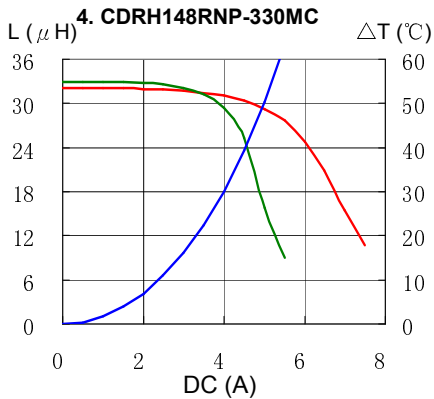
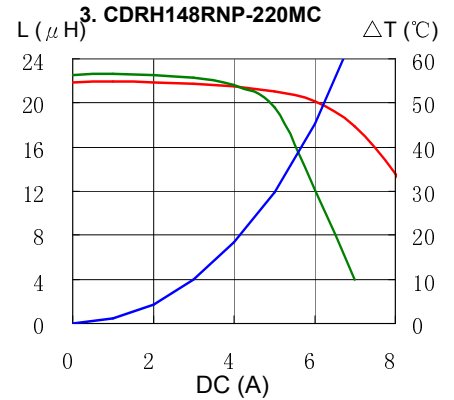
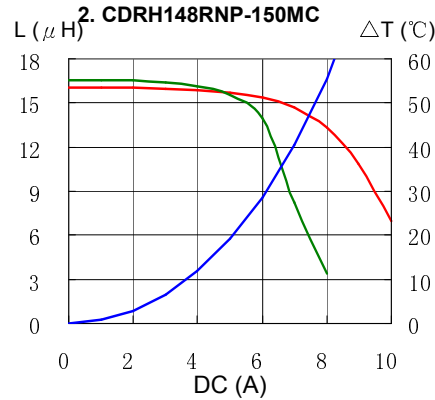
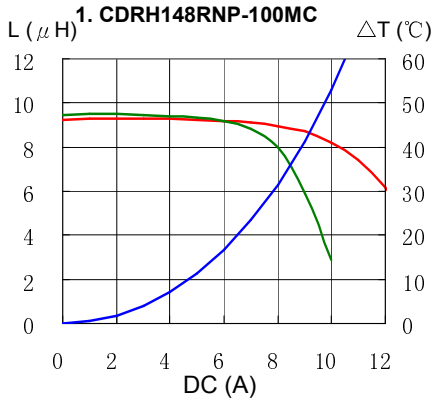
※3 Temperature rise current: The value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

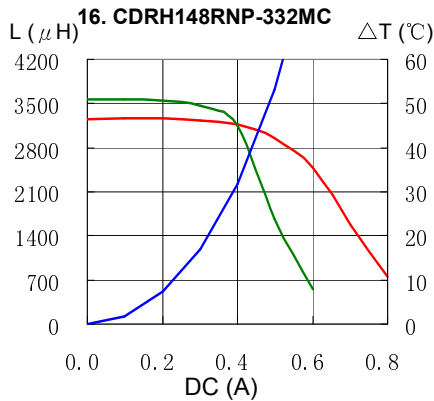
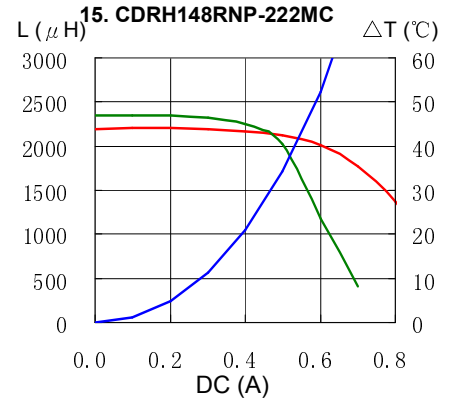
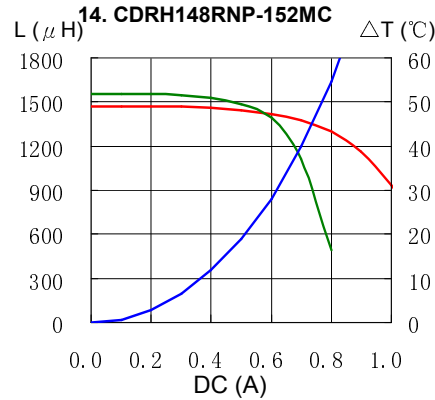
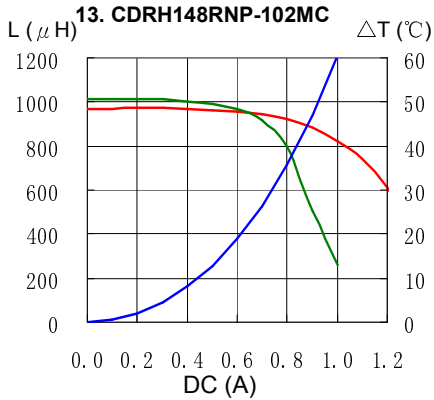


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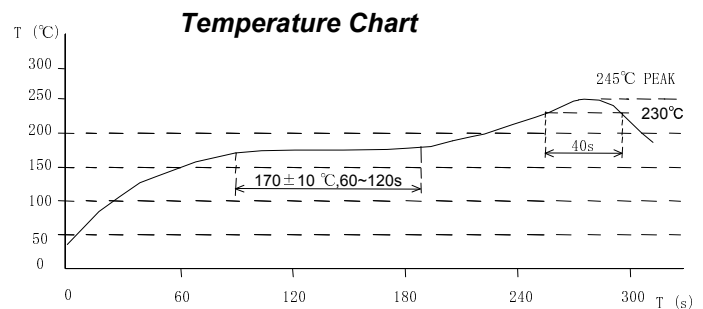
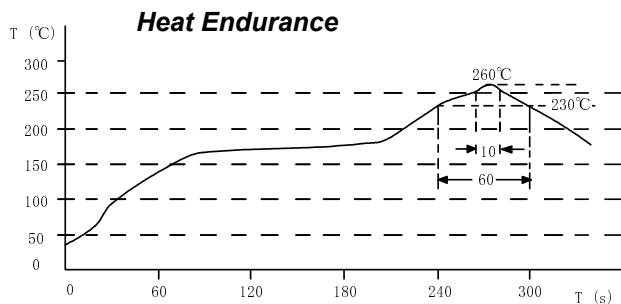


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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