

# SMD Power Inductor CDRH50D43R



Halogen  
Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.3 × 5.3 × 4.5mm Max.
- Product weight: 0.38g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## 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.

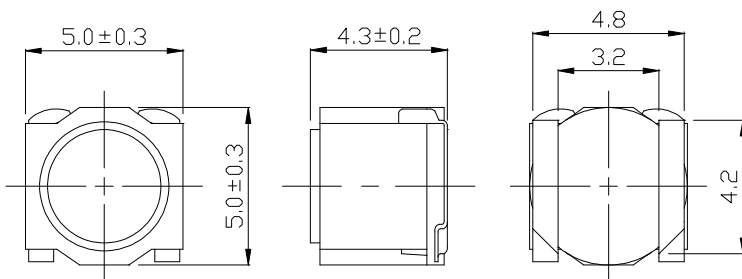
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1500pcs per reel

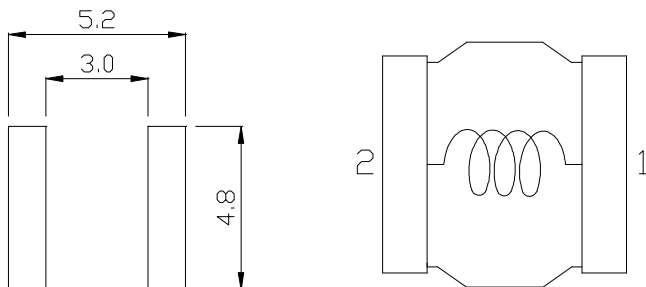
## Applications

- Ideally used in Slim-type TV , car navigation etc.

## 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 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20°C)	(at 105°C)	
CDRH50D43RNP-2R2NC	C	2.2 $\pm$ 30%	22 $\pm$ 25%	3.60	3.00	3.80
CDRH50D43RNP-3R3NC	D	3.3 $\pm$ 30%	25 $\pm$ 25%	2.90	2.50	3.50
CDRH50D43RNP-4R7MC	E	4.7 $\pm$ 20%	30 $\pm$ 25%	2.44	2.08	3.20
CDRH50D43RNP-6R8MC	F	6.8 $\pm$ 20%	37 $\pm$ 25%	2.12	1.70	2.80
CDRH50D43RNP-100MC	G	10 $\pm$ 20%	47 $\pm$ 25%	1.75	1.48	2.40
CDRH50D43RNP-150MC	H	15 $\pm$ 20%	72 $\pm$ 25%	1.44	1.28	1.90
CDRH50D43RNP-220MC	J	22 $\pm$ 20%	112 $\pm$ 20%	1.16	0.97	1.44
CDRH50D43RNP-330MC	K	33 $\pm$ 20%	160 $\pm$ 20%	0.96	0.80	1.25
CDRH50D43RNP-470MC	M	47 $\pm$ 20%	270 $\pm$ 20%	0.78	0.67	0.91
CDRH50D43RNP-680MC	N	68 $\pm$ 20%	430 $\pm$ 20%	0.65	0.53	0.72
CDRH50D43RNP-101MC	P	100 $\pm$ 20%	545 $\pm$ 20%	0.54	0.45	0.65
CDRH50D43RNP-151MC	Q	150 $\pm$ 20%	775 $\pm$ 20%	0.44	0.37	0.51
CDRH50D43RNP-221MC	R	220 $\pm$ 20%	975 $\pm$ 20%	0.36	0.30	0.49

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

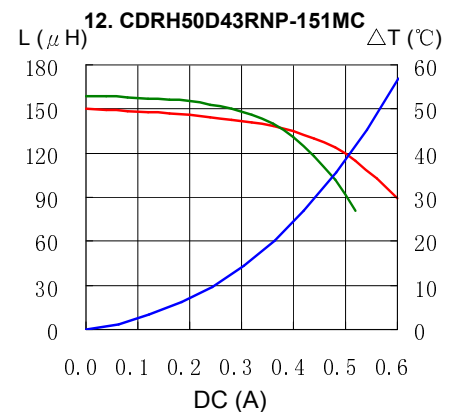
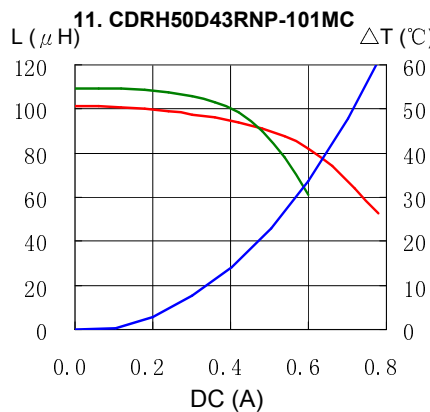
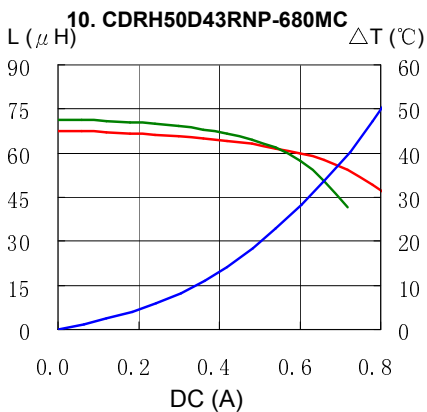
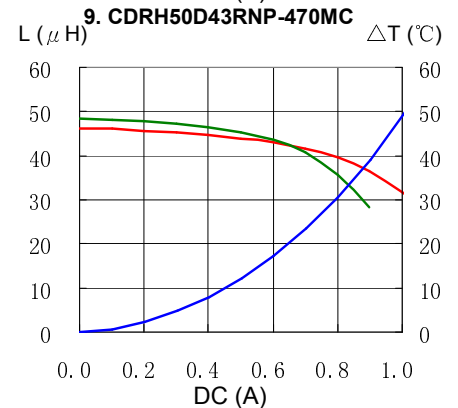
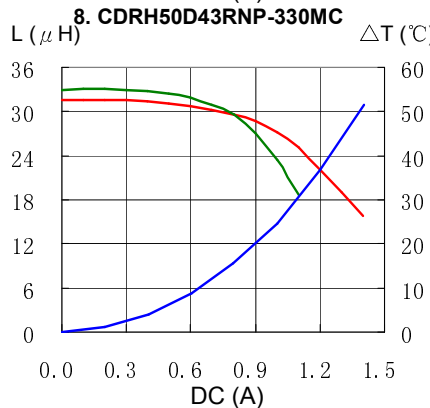
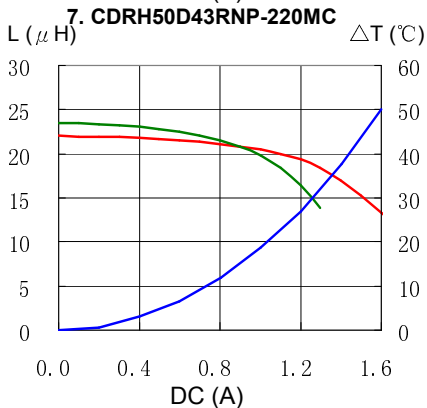
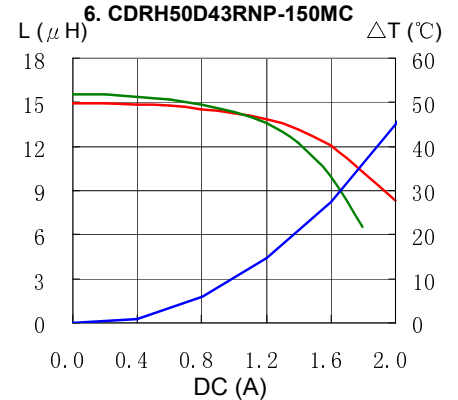
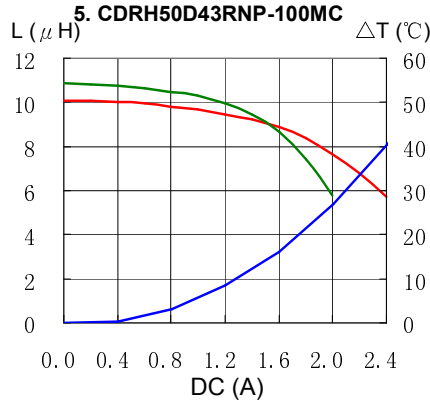
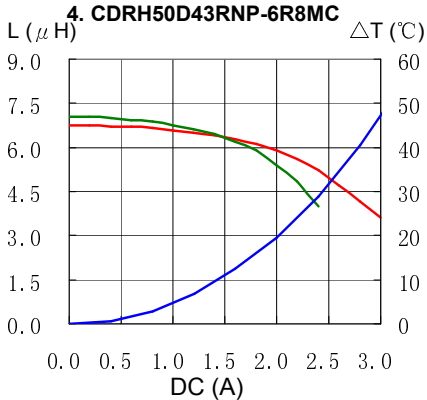
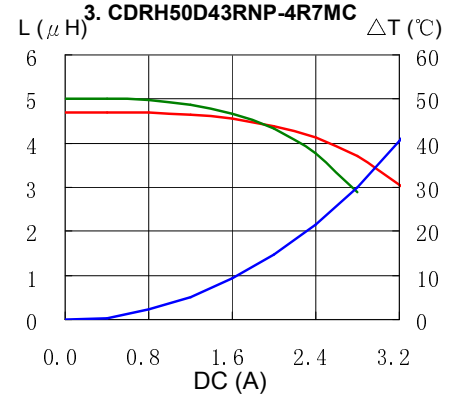
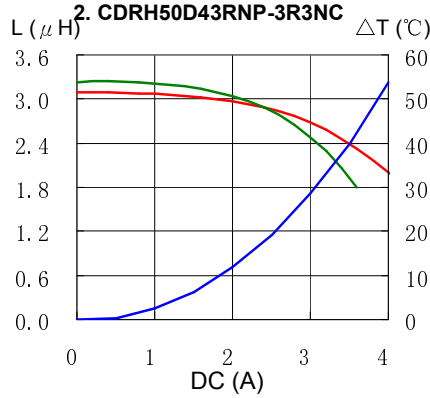
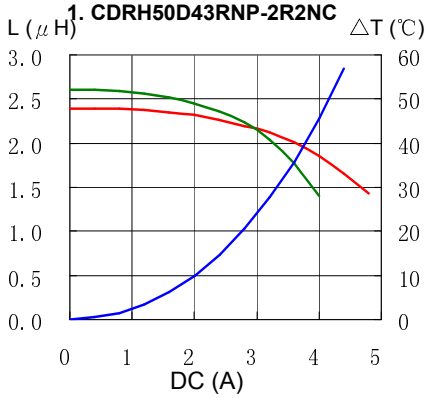
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

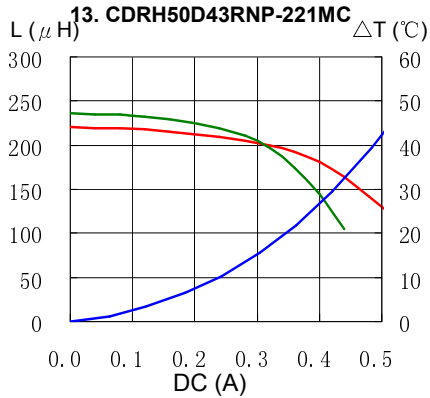


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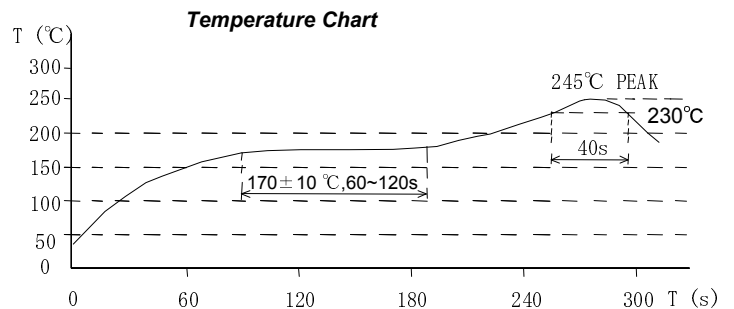
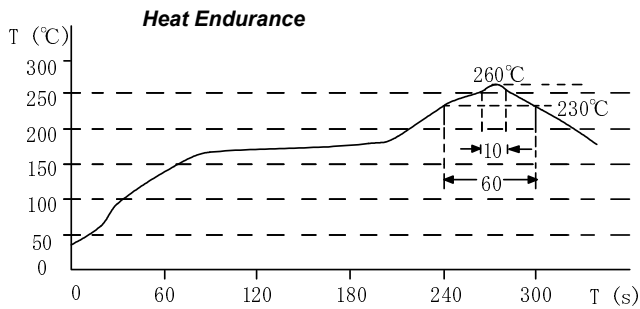


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



## Solder Reflow Condition



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