SMD Power Inductor
CDRH50D43R

RoHS

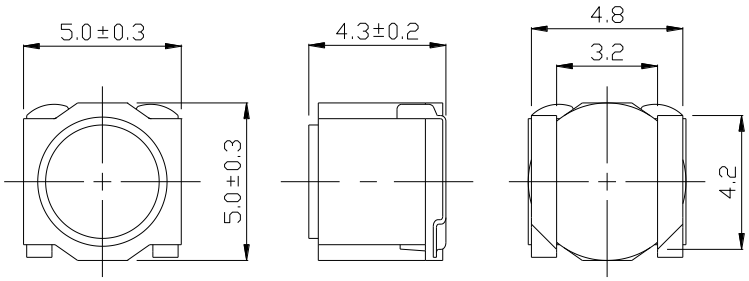
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.3 × 5.3 × 4.5mm Max.
- Product weight: 0.38g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

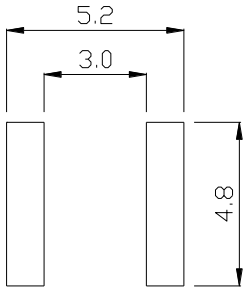
Packaging
- Carrier tape and reel packaging.
- 13.0"diameter reel
- 1500pcs per reel

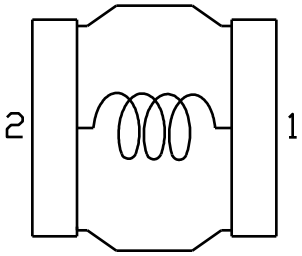
Applications
- Ideally used in Slim-type TV , car navigation etc.

Dimension - [mm]



Land pattern and Schematics - [mm]





Revised: 10-Jan-17

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R.(mΩ) [Within] (at 20℃)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at 20℃)	(at 105℃)	
CDRH50D43RNP-2R2NC	C	2.2±30%	22±25%	3.60	3.00	3.80
CDRH50D43RNP-3R3NC	D	3.3±30%	25±25%	2.90	2.50	3.50
CDRH50D43RNP-4R7MC	E	4.7±20%	30±25%	2.44	2.08	3.20
CDRH50D43RNP-6R8MC	F	6.8±20%	37±25%	2.12	1.70	2.80
CDRH50D43RNP-100MC	G	10±20%	47±25%	1.75	1.48	2.40
CDRH50D43RNP-150MC	H	15±20%	72±25%	1.44	1.28	1.90
CDRH50D43RNP-220MC	J	22±20%	112±20%	1.16	0.97	1.44
CDRH50D43RNP-330MC	K	33±20%	160±20%	0.96	0.80	1.25
CDRH50D43RNP-470MC	M	47±20%	270±20%	0.78	0.67	0.91
CDRH50D43RNP-680MC	N	68±20%	430±20%	0.65	0.53	0.72
CDRH50D43RNP-101MC	P	100±20%	545±20%	0.54	0.45	0.65
CDRH50D43RNP-151MC	Q	150±20%	775±20%	0.44	0.37	0.51
CDRH50D43RNP-221MC	R	220±20%	975±20%	0.36	0.30	0.49

※1. Measuring condition: at 100kHz.

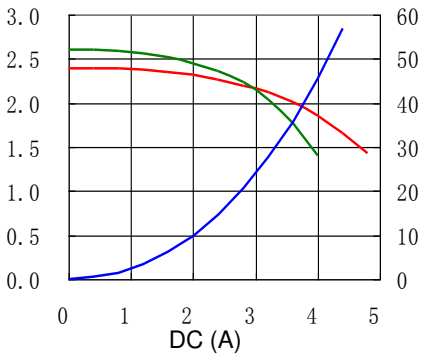
※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

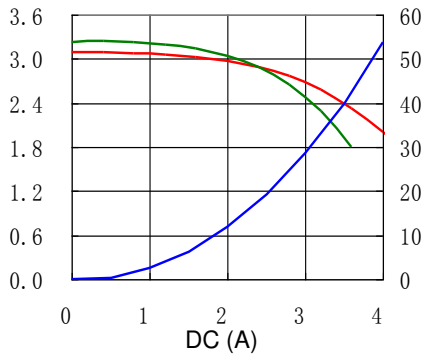
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

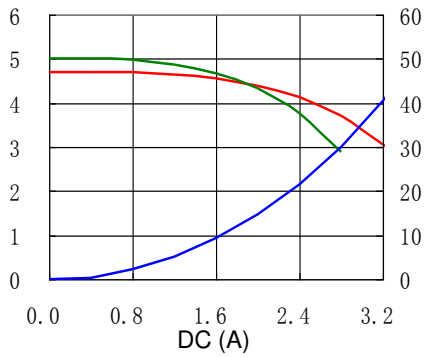
1. CDRH50D43RNP-2R2NC



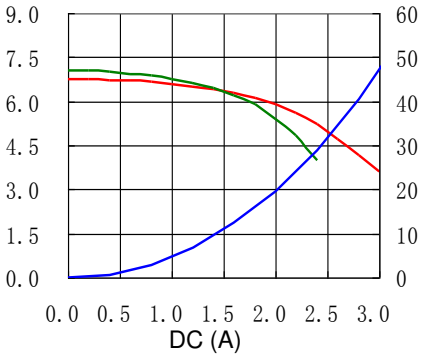
2. CDRH50D43RNP-3R3NC



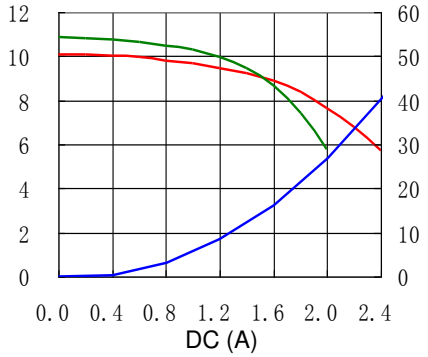
3. CDRH50D43RNP-4R7MC



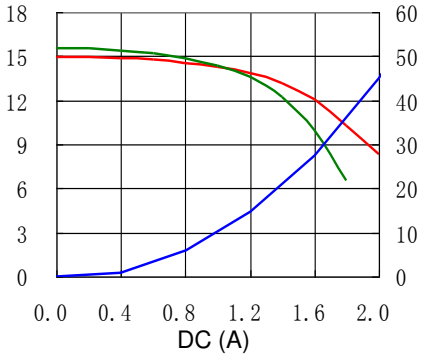
4. CDRH50D43RNP-6R8MC



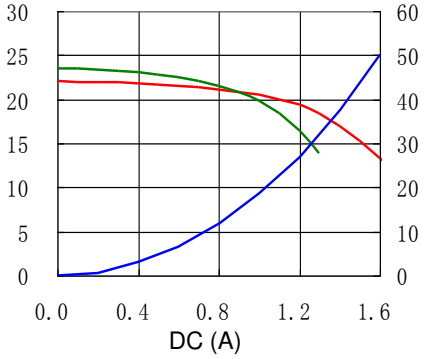
5. CDRH50D43RNP-100MC



6. CDRH50D43RNP-150MC



7. CDRH50D43RNP-220MC



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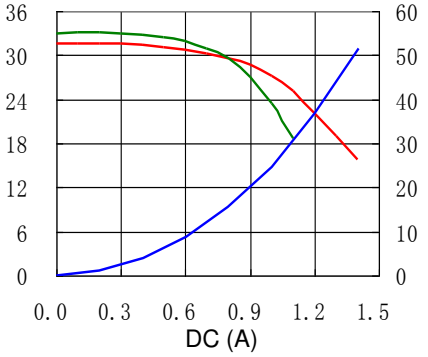

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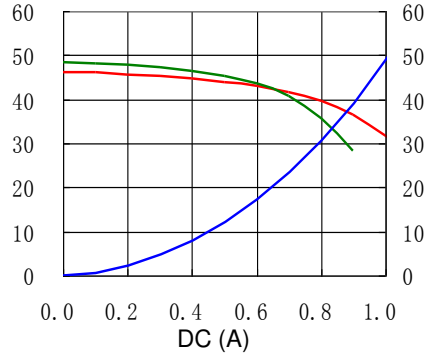
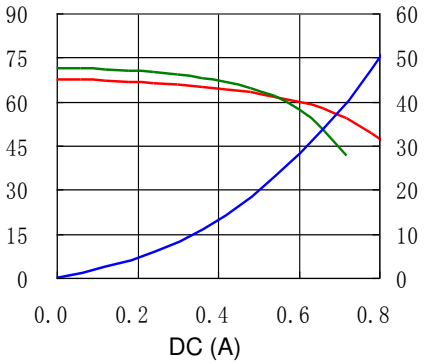
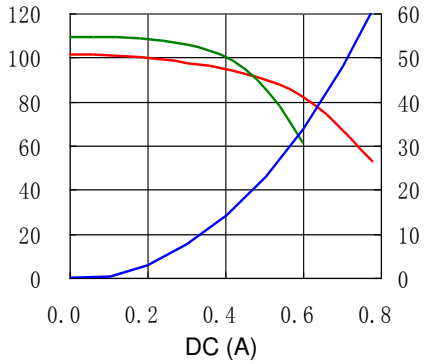


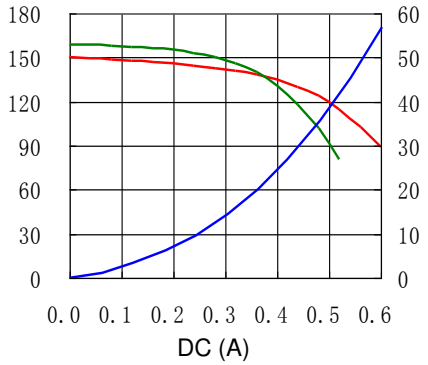
10. CDRH50D43RNP-680MC



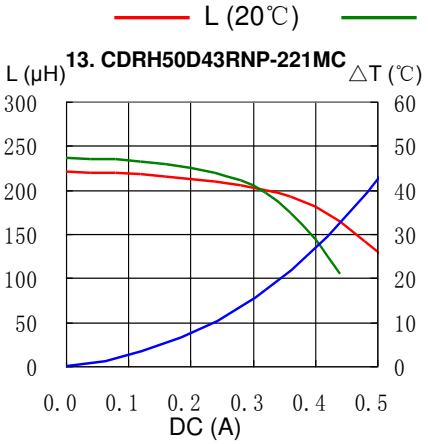
11. CDRH50D43RNP-101MC



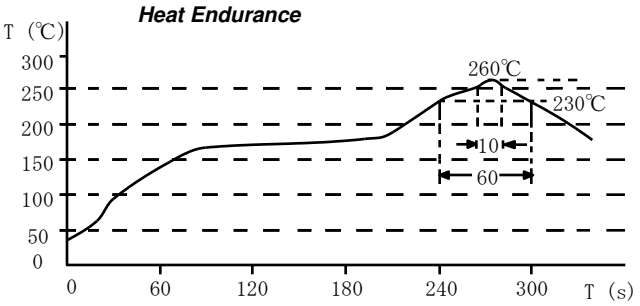
12. CDRH50D43RNP-151MC

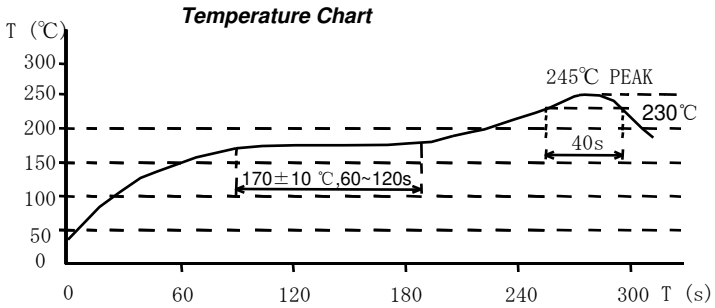


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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