SMD Power Inductor
CDRH12D58R

RoHS



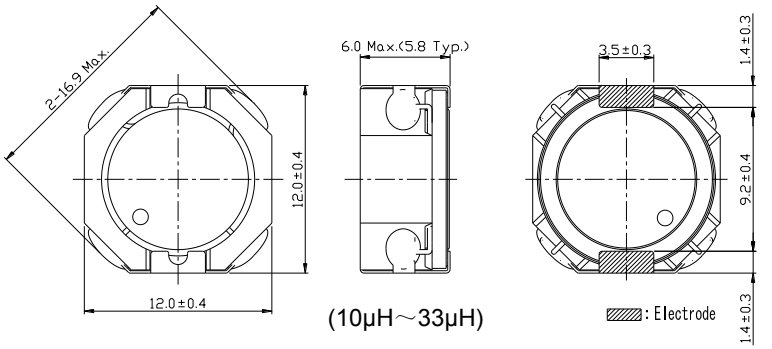
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.4 × 12.4 × 6.0 mm Max.
- Product weight: 2.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃～+105℃
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

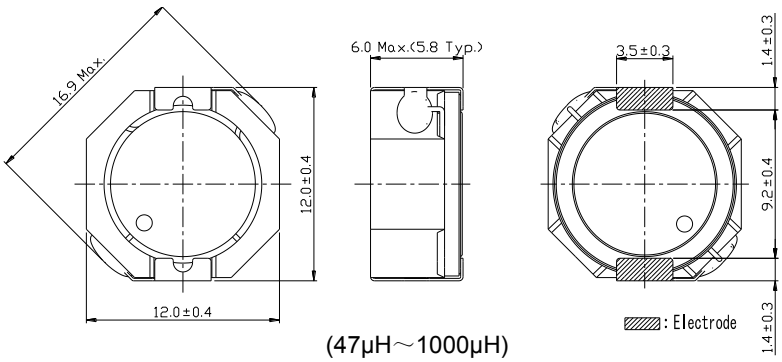
Packaging
- Carrier tape and reel packaging
- 12”diameter reel
- 500pcs per reel

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

Dimension - [mm]

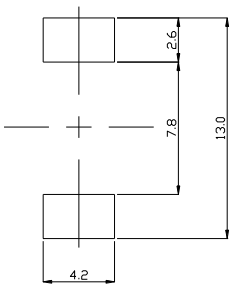


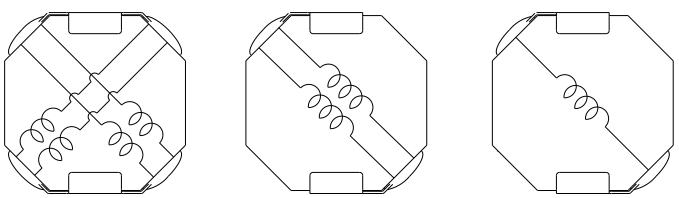
(10μH～33μH)



(47μH～1000μH)

Land pattern and Schematics - [mm]





(10μH～33μH) (47μH～150μH) (220μH～1.0mH)

Revised: 10-Jan-17

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH12D58RNP-100MC	100	10±20%	22.5(18)	7.20	4.70	4.70
CDRH12D58RNP-150MC	150	15±20%	28.8(23)	5.50	3.60	4.60
CDRH12D58RNP-220MC	220	22±20%	42.5(34)	4.70	3.10	3.30
CDRH12D58RNP-330MC	330	33±20%	53.8(43)	3.70	2.40	2.95
CDRH12D58RNP-470MC	470	47±20%	86.5(69)	3.15	2.10	2.10
CDRH12D58RNP-680MC	680	68±20%	121(97)	2.65	1.75	1.86
CDRH12D58RNP-101MC	101	100±20%	176(141)	2.25	1.5	1.56
CDRH12D58RNP-151MC	151	150±20%	251(201)	1.80	1.20	1.28
CDRH12D58RNP-221MC	221	220±20%	391(313)	1.45	1.00	1.03
CDRH12D58RNP-331MC	331	330±20%	544(435)	1.22	0.80	0.90
CDRH12D58RNP-471MC	471	470±20%	764(611)	1.01	0.66	0.68
CDRH12D58RNP-681MC	681	680±20%	1078(863)	0.86	0.56	0.61
CDRH12D58RNP-102MC	102	1000±20%	1625(1300)	0.69	0.46	0.48

※1. Inductance measuring condition :at 100kHz

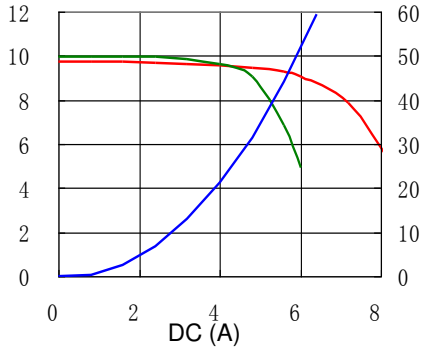
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

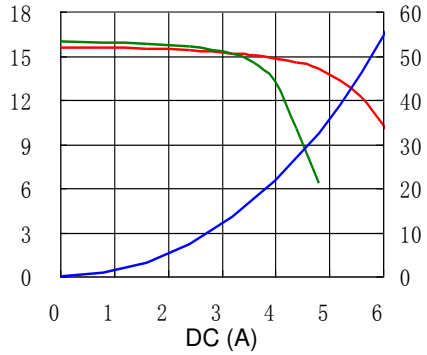
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

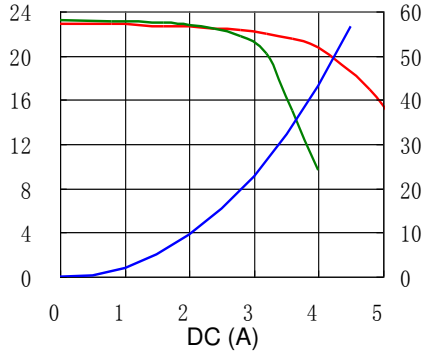
1. CDRH12D58RNP-100MC



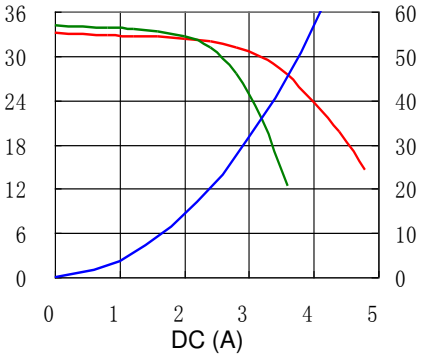
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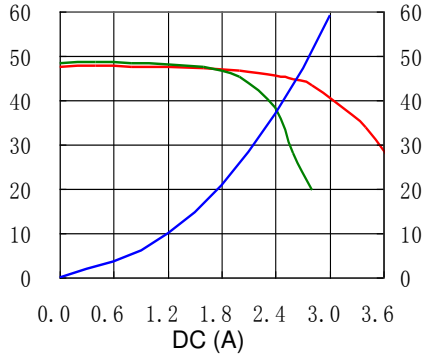
3. CDRH12D58RNP-220MC



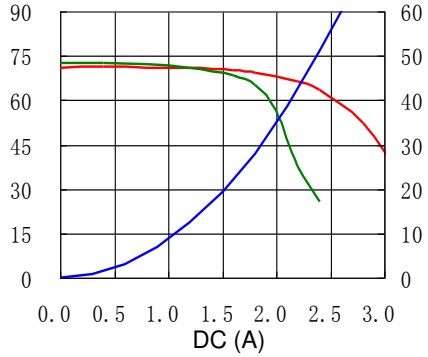
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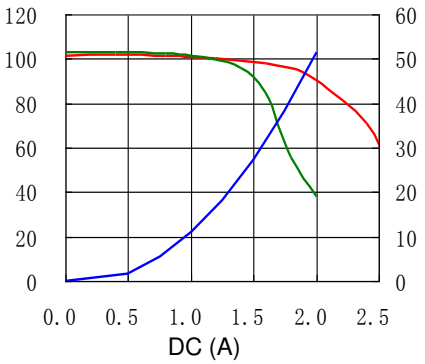
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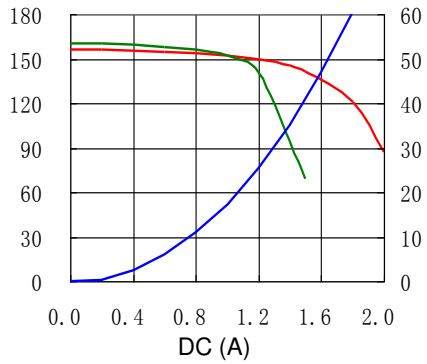
6. CDRH12D58RNP-680MC



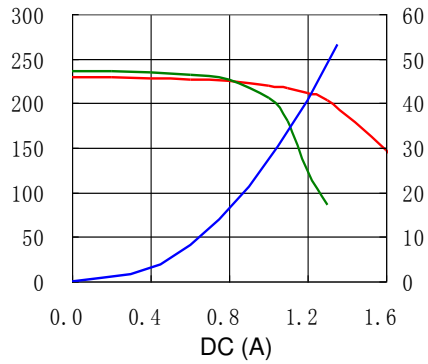
7. CDRH12D58RNP-101MC



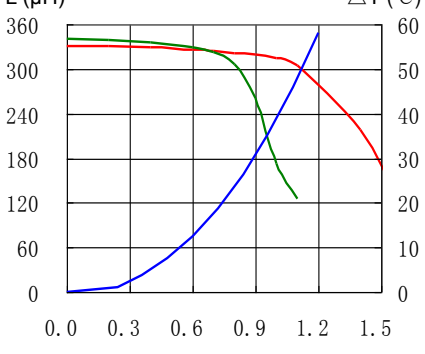
8. CDRH12D58RNP-151MC



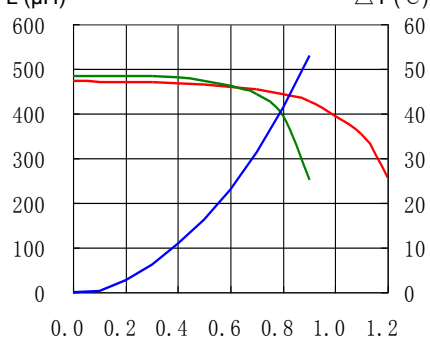
9. CDRH12D58RNP-221MC



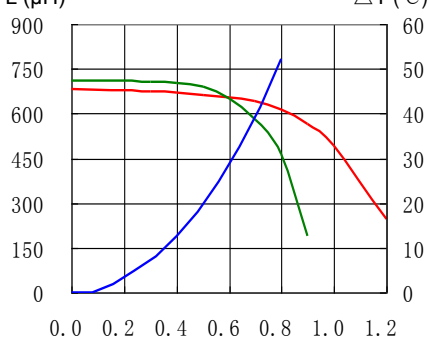
10. CDRH12D58RNP-331MC



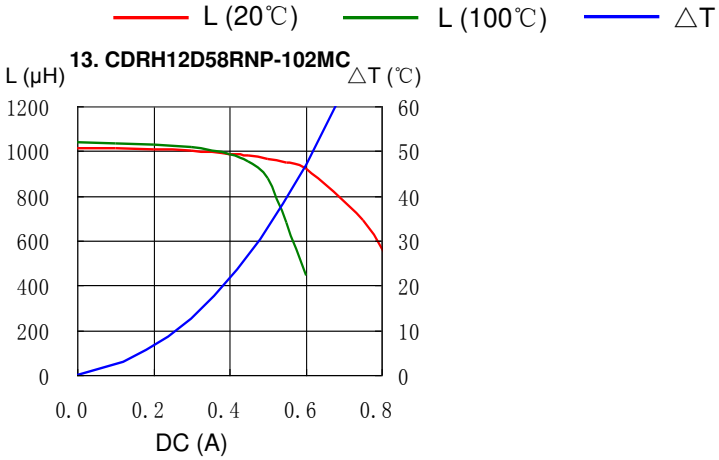
11. CDRH12D58RNP-471MC



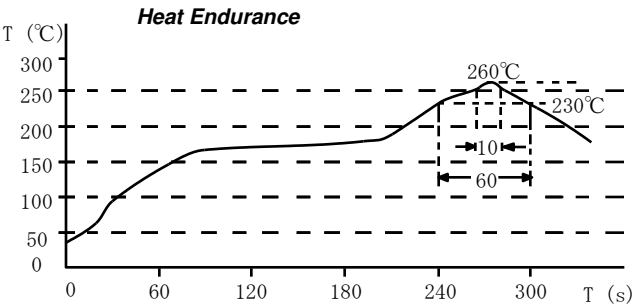
12. CDRH12D58RNP-681MC

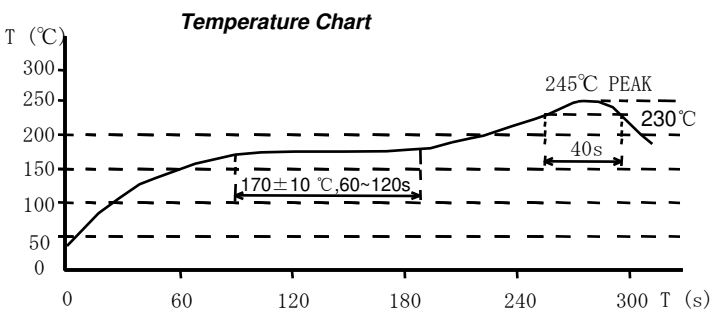


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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