SMD Power Inductor

CDRH169R

RoHS Compliance
Cd: Max. 0.01wt%
Others: Max. 0.1wt%

Description

· Ferrite drum core construction
· Magnetically shielded
· L × W × H:16.5 × 16.5 x10.0 mm Max.
· Product weight: 8.2g(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.

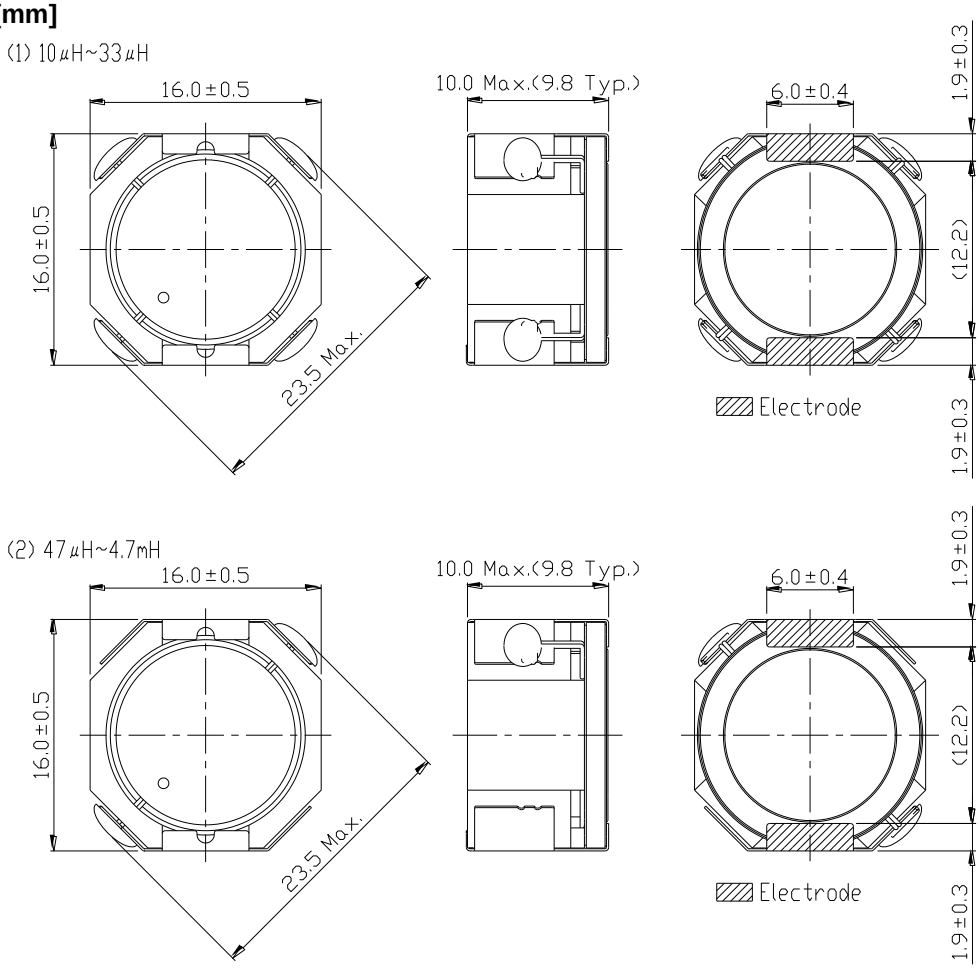
Packaging

· Carrier tape and reel packaging
· 13.0"diameter reel
· 200pcs per reel

Applications

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

Dimension - [mm]



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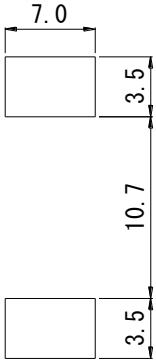
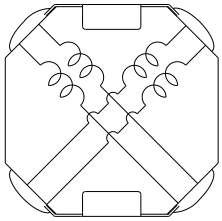
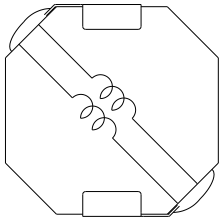
Recommended Land pattern - [mm]



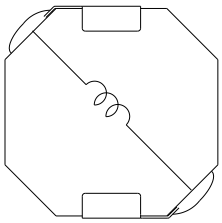
Connection(Bottom view)



(10μH～33μH)



(47μH～100μH)



(150μH～4.7mH)

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Electrical Characteristics

Part No.	Stamp	Inductance(μH) [within] ※1	D.C.R. (Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH169RNP-100MC	100	10±20%	7.8m(6.3m)	11.5	7.7	8.6
CDRH169RNP-150MC	150	15±20%	12.5m(10m)	9.6	6.4	7.0
CDRH169RNP-220MC	220	22±20%	18m(15m)	8.1	5.6	5.7
CDRH169RNP-330MC	330	33±20%	27m(22m)	6.7	4.2	4.8
CDRH169RNP-470MC	470	47±20%	35m(28m)	5.3	3.4	4.2
CDRH169RNP-680MC	680	68±20%	51m(41m)	4.4	2.9	3.3
CDRH169RNP-101MC	101	100±20%	77m(62m)	3.7	2.4	2.7
CDRH169RNP-151MC	151	150±20%	121m(97m)	3.2	2.2	2.2
CDRH169RNP-221MC	221	220±20%	181m(145m)	2.6	1.8	1.8
CDRH169RNP-331MC	331	330±20%	281m(225m)	2.1	1.4	1.5
CDRH169RNP-471MC	471	470±20%	392m(314m)	1.8	1.2	1.1
CDRH169RNP-681MC	681	680±20%	518m(414m)	1.5	1.0	0.92
CDRH169RNP-102MC	102	1000±20%	0.79(0.63)	1.2	0.79	0.82
CDRH169RNP-152MC	152	1500±20%	1.10(0.88)	0.95	0.65	0.70
CDRH169RNP-222MC	222	2200±20%	1.53(1.22)	0.79	0.54	0.58
CDRH169RNP-332MC	332	3300±20%	2.18(1.74)	0.66	0.44	0.48
CDRH169RNP-472MC	472	4700±20%	3.17(2.53)	0.54	0.36	0.40

※1 Measuring condition: at 100kHz.

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

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

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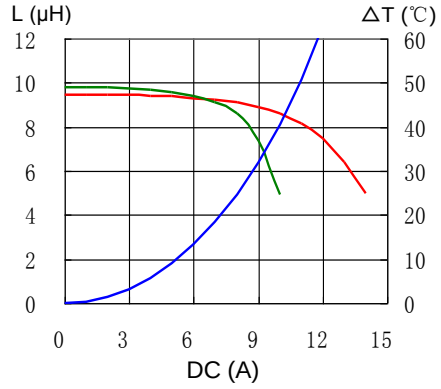
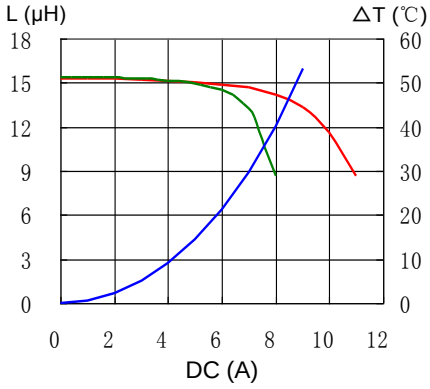
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) ΔT

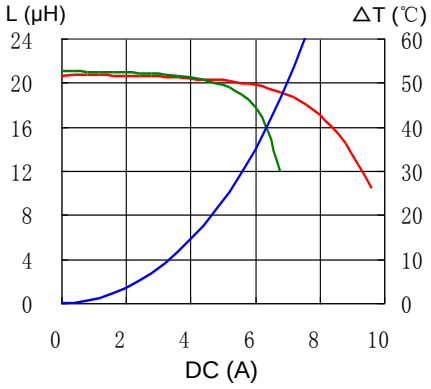
1. CDRH169RNP-100MC



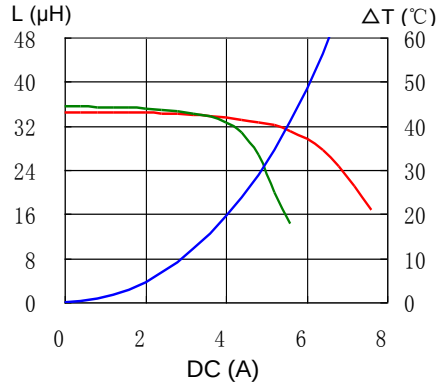
2. CDRH169RNP-150MC



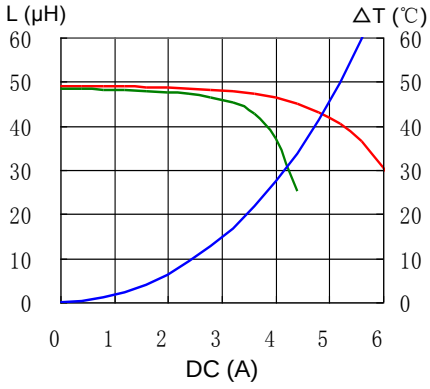
3. CDRH169RNP-220MC



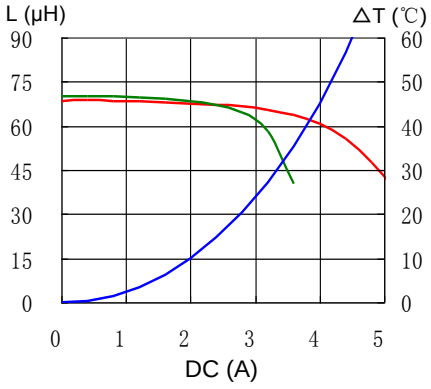
4. CDRH169RNP-330MC



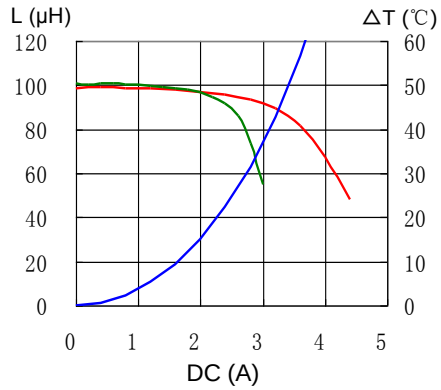
5. CDRH169RNP-470MC



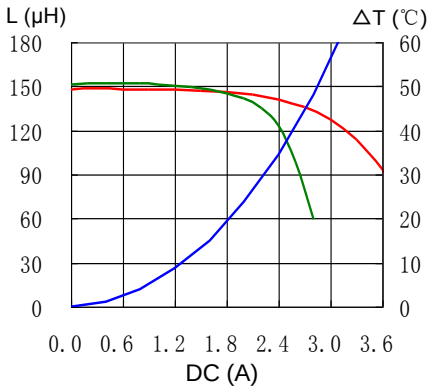
6. CDRH169RNP-680MC



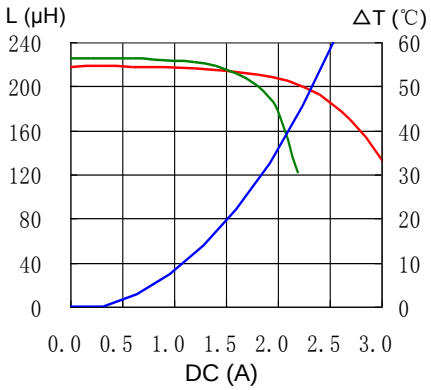
7. CDRH169RNP-101MC



8. CDRH169RNP-151MC



9. CDRH169RNP-221MC



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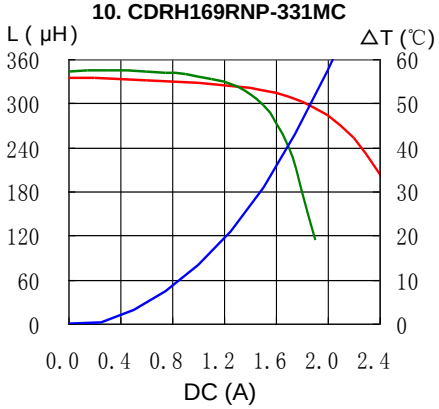
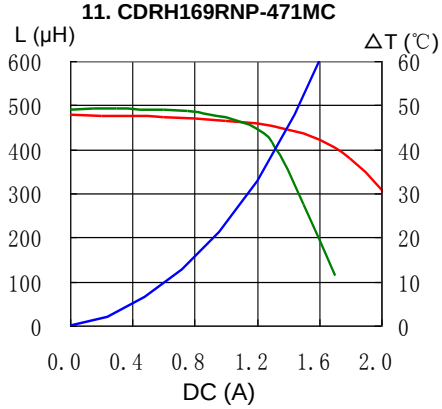
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) ΔT

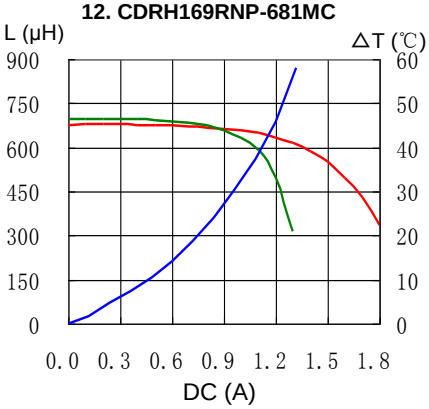
10. CDRH169RNP-331MC



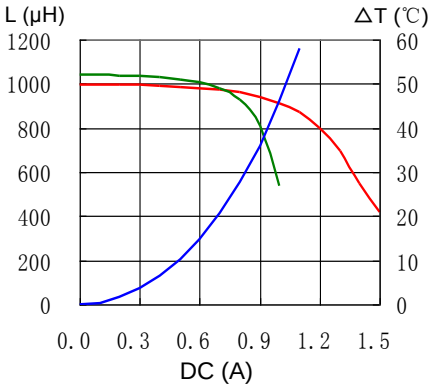
11. CDRH169RNP-471MC



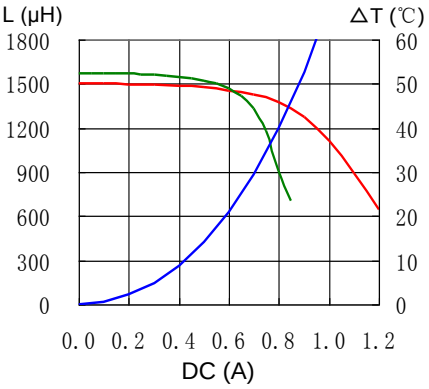
12. CDRH169RNP-681MC



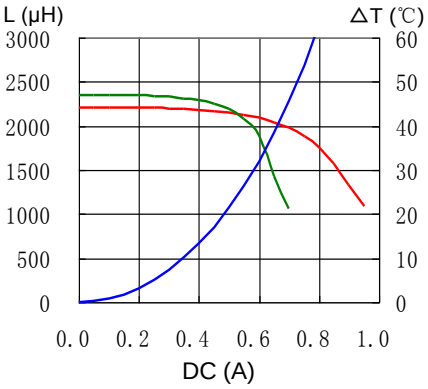
13. CDRH169RNP-102MC



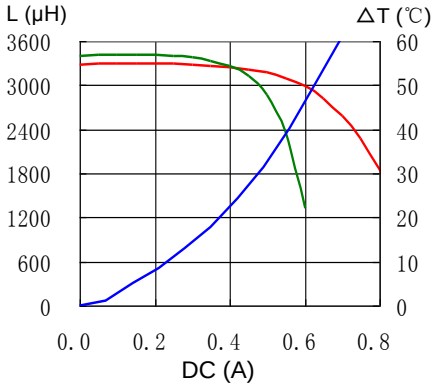
14. CDRH169RNP-152MC



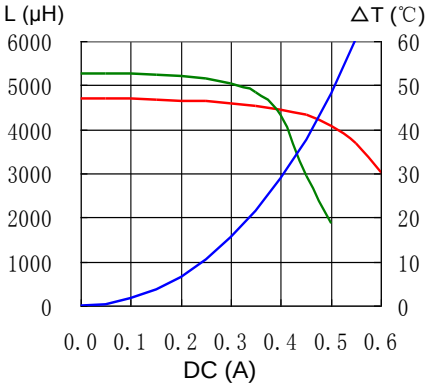
15. CDRH169RNP-222MC



16. CDRH169RNP-332MC



17. CDRH169RNP-472MC



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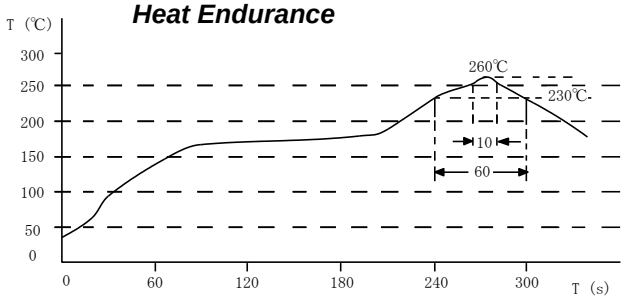
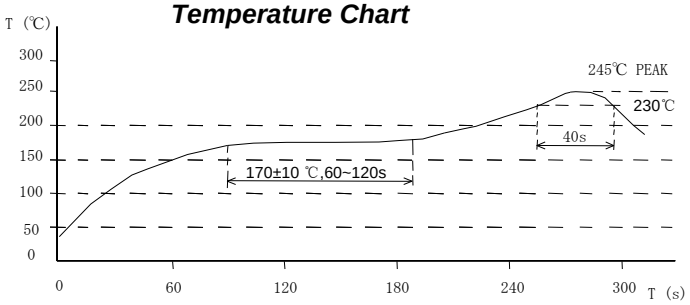
Solder Reflow Condition

Heat Endurance



Temperature Chart



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