SMD Power Inductor
CDRH124

RoHS

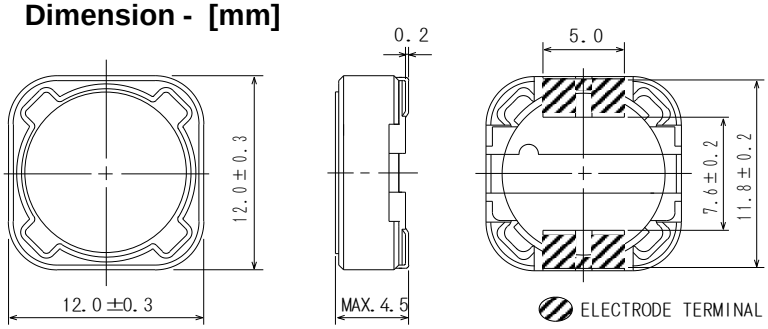
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 4.5 mm Max.
- Product weight: 2.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

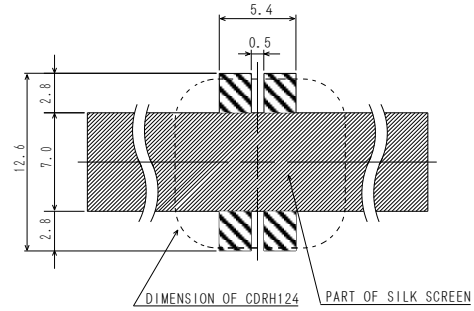
Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 500pcs per reel

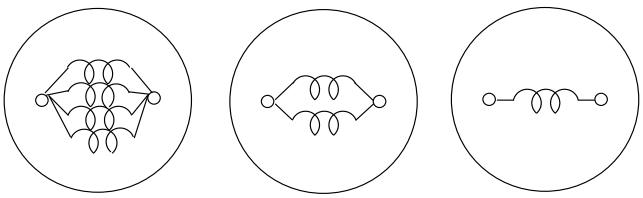
Applications
- Ideally used in Notebook PC, LCD TV,DVD, Game machine, STB ,Projector etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]





3.9μH～10μH | 12μH～47μH, 68μH,82μH | 56μH, 100μH～330μH

Revised: 6-Jan-17

Electrical Characteristics

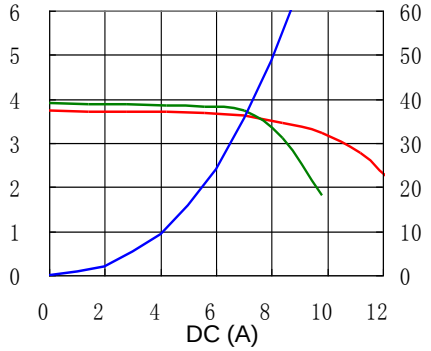
Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Rated current (A) ※2
CDRH124NP-3R9MC	3R9	3.9±20%	15(12)	6.5
CDRH124NP-4R7MC	4R7	4.7±20%	18(14)	5.7
CDRH124NP-6R8MC	6R8	6.8±20%	23(18)	4.9
CDRH124NP-8R2MC	8R2	8.2±20%	26(21)	4.6
CDRH124NP-100MC	100	10±20%	28(22)	4.5
CDRH124NP-120MC	120	12±20%	38(30)	4.0
CDRH124NP-150MC	150	15±20%	50(40)	3.2
CDRH124NP-180MC	180	18±20%	57(46)	3.1
CDRH124NP-220MC	220	22±20%	66(53)	2.9
CDRH124NP-270MC	270	27±20%	80(64)	2.8
CDRH124NP-330MC	330	33±20%	97(78)	2.7
CDRH124NP-390MC	390	39±20%	132(106)	2.1
CDRH124NP-470MC	470	47±20%	150(120)	1.9
CDRH124NP-560MC	560	56±20%	190(152)	1.8
CDRH124NP-680MC	680	68±20%	220(176)	1.5
CDRH124NP-820MC	820	82±20%	260(208)	1.3
CDRH124NP-101MC	101	100±20%	308(246)	1.2
CDRH124NP-121MC	121	120±20%	380(304)	1.1
CDRH124NP-151MC	151	150±20%	530(424)	0.95
CDRH124NP-181MC	181	180±20%	620(496)	0.85
CDRH124NP-221MC	221	220±20%	700(560)	0.8
CDRH124NP-271MC	271	270±20%	870(696)	0.6
CDRH124NP-331MC	331	330±20%	990(792)	0.5

※1. Inductance measuring condition: at 100 kHz.
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when △t=40℃, whichever is lower .

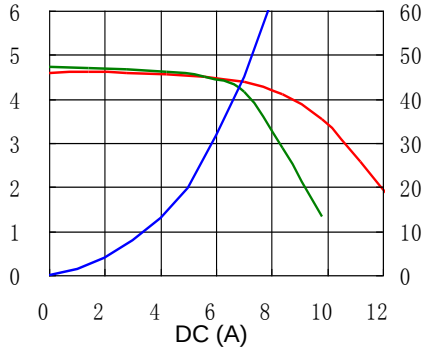
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

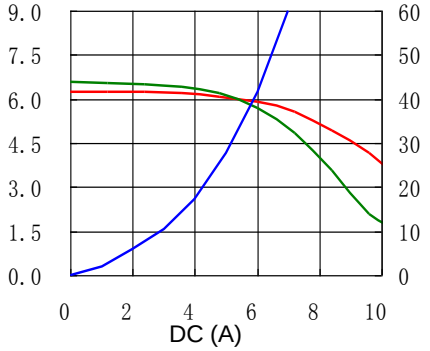
1. CDRH124NP-3R9MC



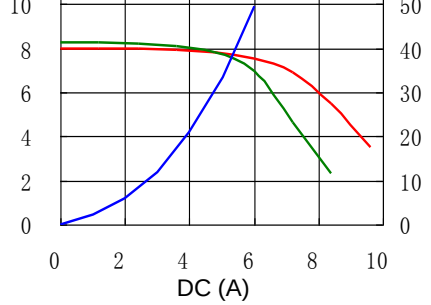
2. CDRH124NP-4R7MC



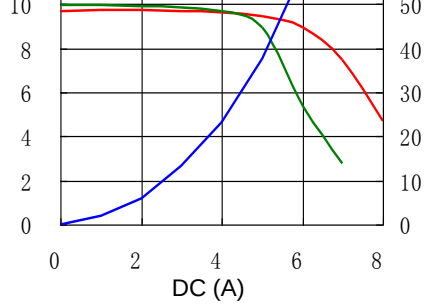
3. CDRH124NP-6R8MC



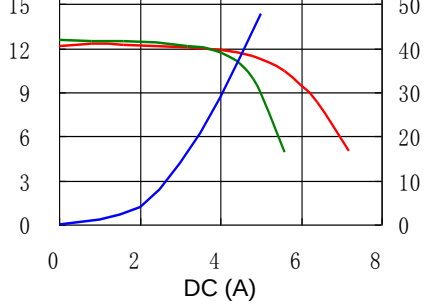
4. CDRH124NP-8R2MC



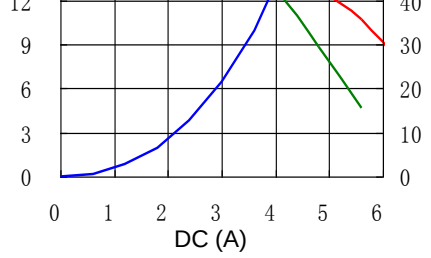
5. CDRH124NP-100MC



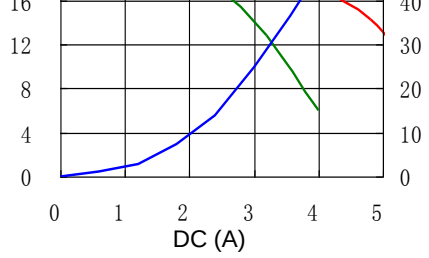
6. CDRH124NP-120MC



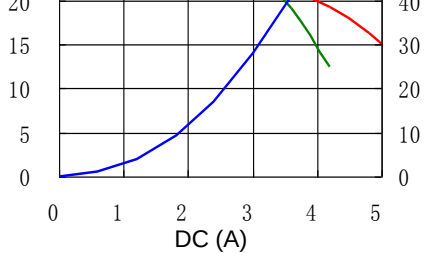
7. CDRH124NP-150MC



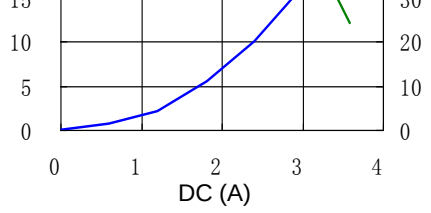
8. CDRH124NP-180MC



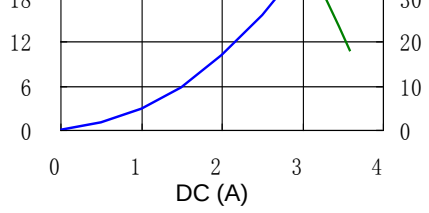
9. CDRH124NP-220MC



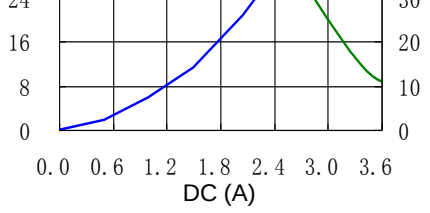
10. CDRH124NP-270MC



11. CDRH124NP-330MC



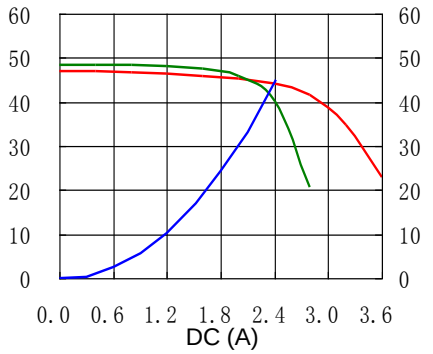
12. CDRH124NP-390MC



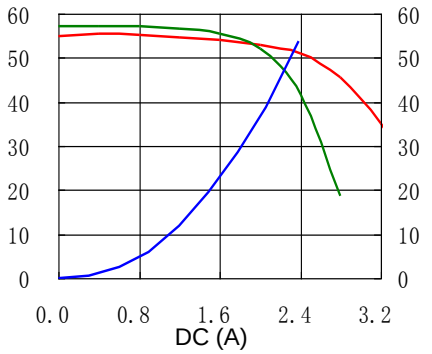
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

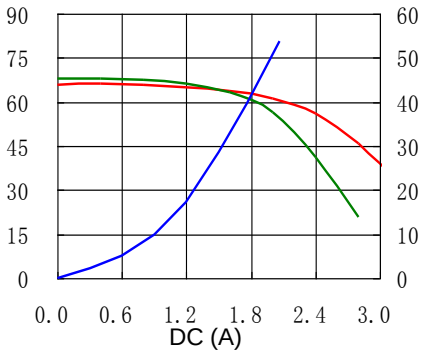
13. CDRH124NP-470MC



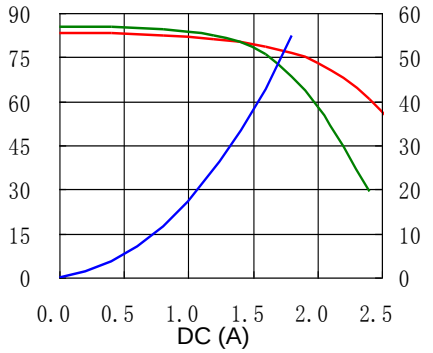
14. CDRH124NP-560MC



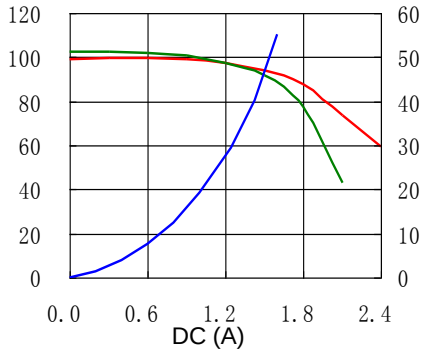
15. CDRH124NP-680MC



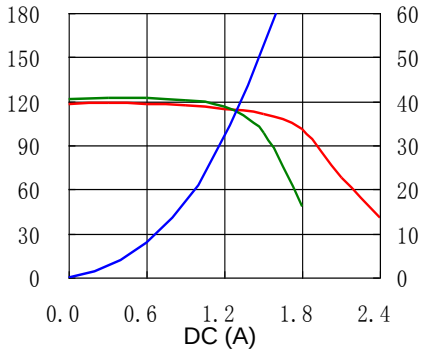
16. CDRH124NP-820MC



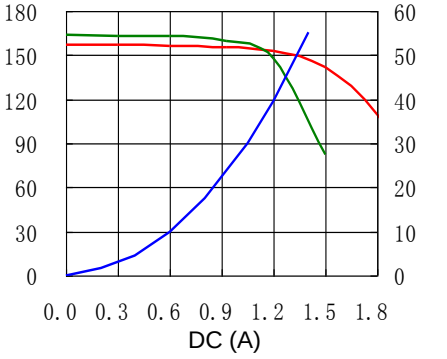
17. CDRH124NP-101MC



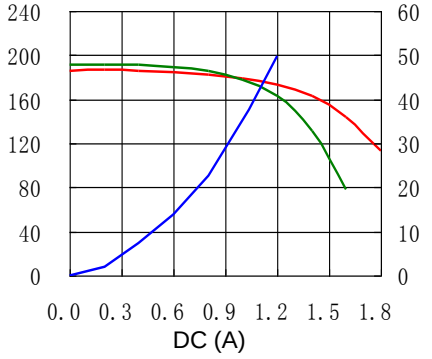
18. CDRH124NP-121MC



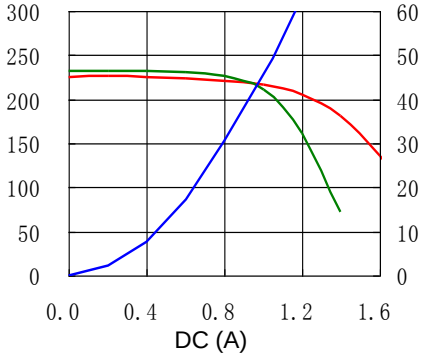
19. CDRH124NP-151MC



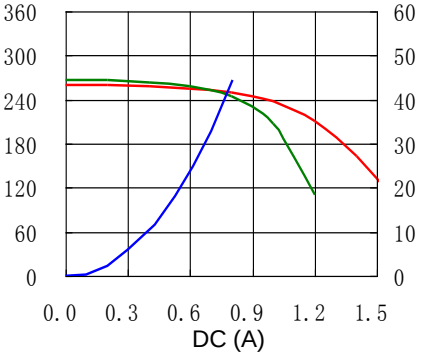
20. CDRH124NP-181MC



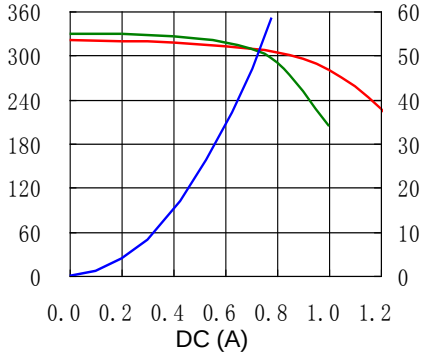
21. CDRH124NP-221MC



22. CDRH124NP-271MC

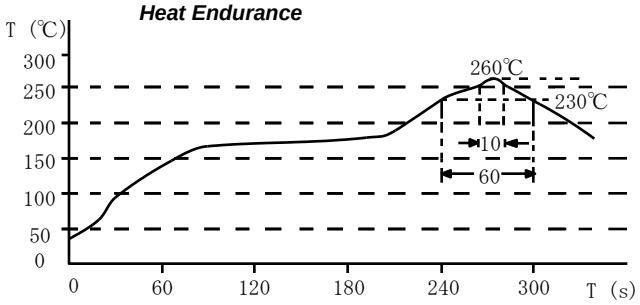


23. CDRH124NP-331MC

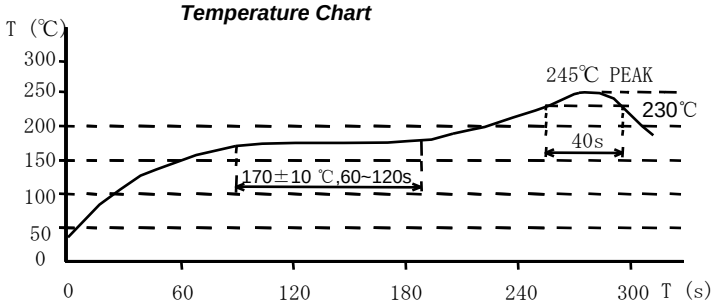


Solder Reflow Condition

Heat Endurance



Temperature Chart



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