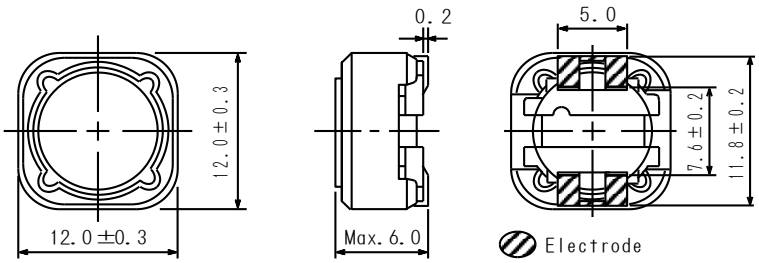
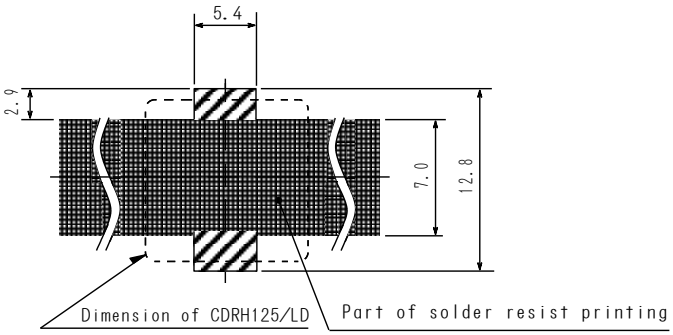
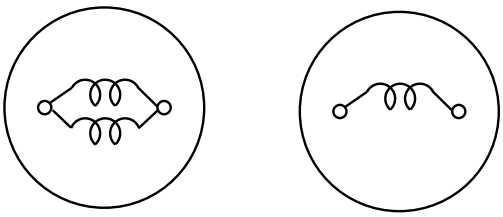
SMD Power Inductor
CDRH125/LD

Dimension - [mm]



Land pattern and Schematics - [mm]





7.5μH ~ 56μH　　68μH～1000μH

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 6.0 mm Max.
- Product weight:　2.9g(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
- 13"diameter reel
- 500pcs per reel

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

Revised: 2-Apr-20

Electrical Characteristics

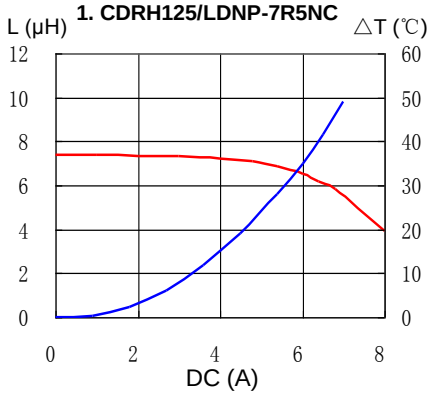
Part No	Stamp	Inductance [Within] ※1	D.C.R (Ω) [Typ.]	D.C.R (Ω) [Max.]	Saturation current (A)※2 Max.(Typ.)	Temperature rise current (A)※3
CDRH125/LDNP-7R5NC	7R5	7.5μH±30%	14.7m	19.0m	5.60(7.00)	6.40
CDRH125/LDNP-100NC	100	10μH±30%	22.5m	29.0m	4.60(6.00)	5.40
CDRH125/LDNP-120MC	120	12μH±20%	24.6m	32.0m	4.20(5.40)	5.20
CDRH125/LDNP-150MC	150	15μH±20%	27.1m	35.0m	4.00(5.00)	5.00
CDRH125/LDNP-180MC	180	18μH±20%	31.8m	41.0m	3.56(4.50)	4.60
CDRH125/LDNP-220MC	220	22μH±20%	33.9m	44.0m	3.28(4.20）	4.50
CDRH125/LDNP-270MC	270	27μH±20%	41.5m	52.0m	3.00(3.70）	4.20
CDRH125/LDNP-330MC	330	33μH±20%	50.0m	65.0m	2.60(3.25）	3.80
CDRH125/LDNP-390MC	390	39μH±20%	60.0m	75.0m	2.40（3.00）	3.40
CDRH125/LDNP-470MC	470	47μH±20%	72.5m	95.0m	2.30(2.90）	2.70
CDRH125/LDNP-560MC	560	56μH±20%	95.4m	125m	2.00(2.50)	2.60
CDRH125/LDNP-680MC	680	68μH±20%	0.110	0.140	1.85(2.25)	2.40
CDRH125/LDNP-820MC	820	82μH±20%	0.121	0.157	1.70(2.10)	2.30
CDRH125/LDNP-101MC	101	100μH±20%	0.144	0.187	1.60(2.00)	2.15
CDRH125/LDNP-121MC	121	120μH±20%	0.175	0.228	1.37(1.70)	1.90
CDRH125/LDNP-151MC	151	150μH±20%	0.218	0.280	1.26(1.60)	1.75
CDRH125/LDNP-181MC	181	180μH±20%	0.259	0.335	1.14(1.45)	1.48
CDRH125/LDNP-221MC	221	220μH±20%	0.303	0.395	1.08(1.35)	1.40
CDRH125/LDNP-271MC	271	270μH±20%	0.403	0.520	0.94（1.20）	1.25
CDRH125/LDNP-331MC	331	330μH±20%	0.547	0.710	0.85（1.10）	1.05
CDRH125/LDNP-391MC	391	390μH±20%	0.614	0.800	0.77（0.98）	1.00
CDRH125/LDNP-471MC	471	470μH±20%	0.711	0.920	0.72（0.90）	0.95
CDRH125/LDNP-561MC	561	560μH±20%	0.956	1.20	0.67（0.83）	0.85
CDRH125/LDNP-681MC	681	680μH±20%	1.08	1.35	0.57（0.71）	1.78
CDRH125/LDNP-821MC	821	820μH±20%	1.17	1.40	0.51（0.62）	1.72
CDRH125/LDNP-102MC	102	1000μH±20%	1.62	1.95	0.46（0.58）	0.60

※1 Measured frequency (Inductance≦10μH at 7.96MHz; Inductance>10μH at 100kHz)
※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than its initial value. (Ta＝20℃)
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes △T=40℃ (Ta＝20℃).

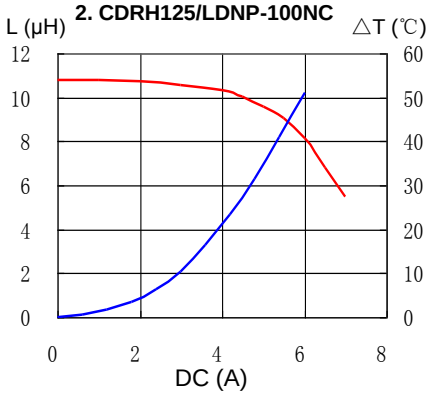
Saturation Current & Temperature Rise Graph

L (20℃) △T

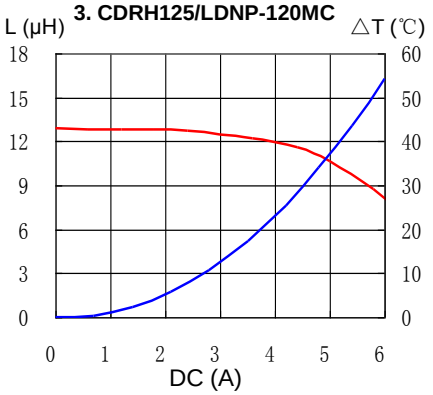
1. CDRH125/LDNP-7R5NC



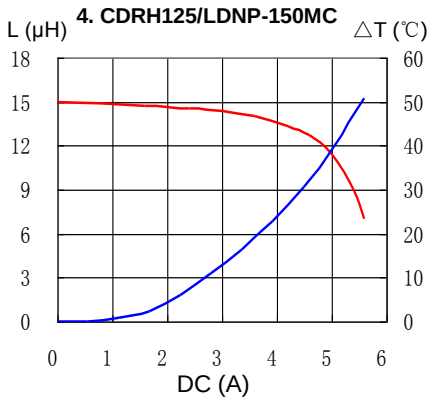
2. CDRH125/LDNP-100NC



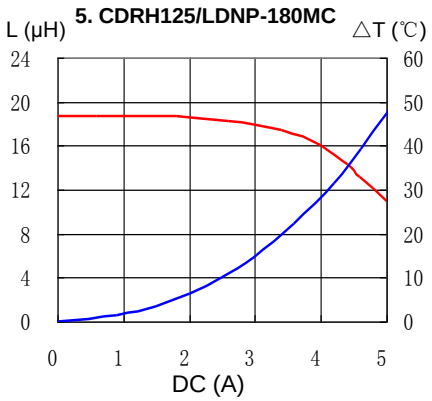
3. CDRH125/LDNP-120MC



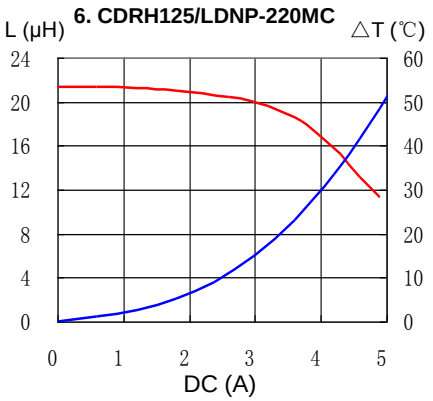
4. CDRH125/LDNP-150MC



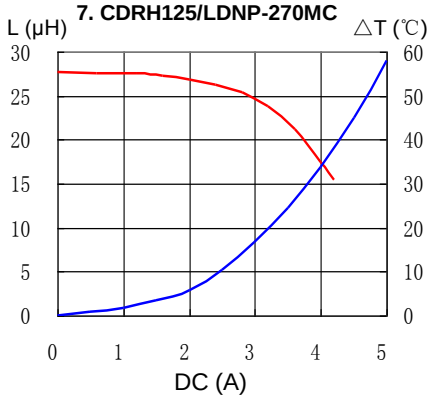
5. CDRH125/LDNP-180MC



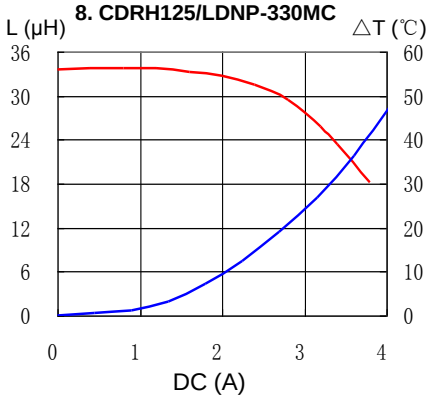
6. CDRH125/LDNP-220MC



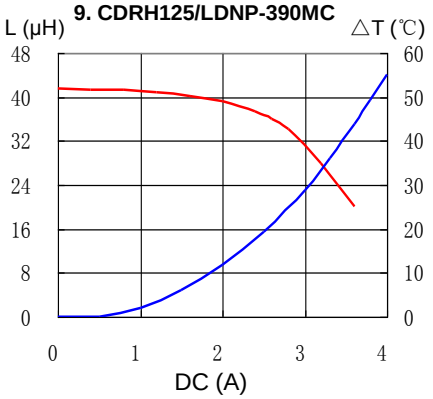
7. CDRH125/LDNP-270MC



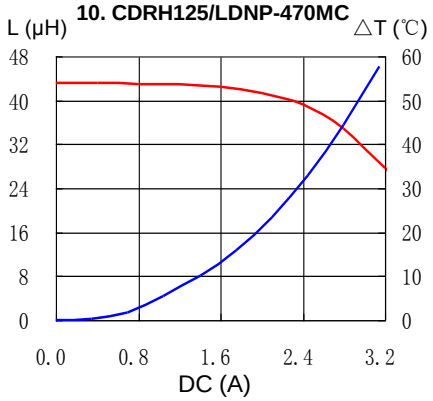
8. CDRH125/LDNP-330MC



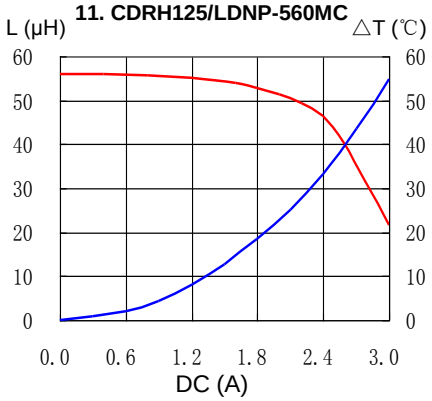
9. CDRH125/LDNP-390MC



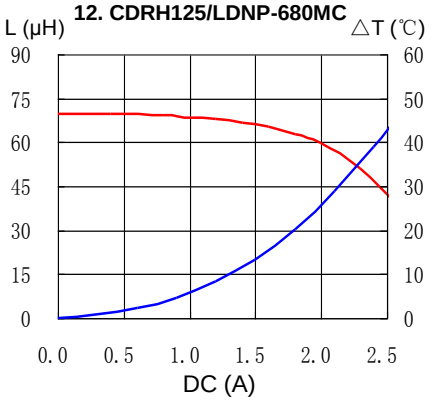
10. CDRH125/LDNP-470MC



11. CDRH125/LDNP-560MC



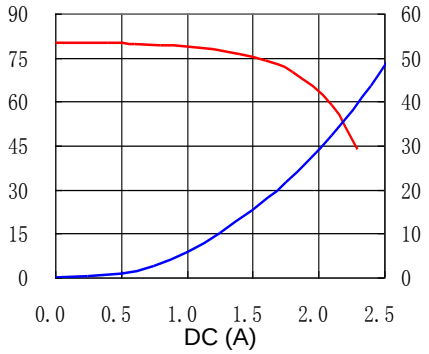
12. CDRH125/LDNP-680MC



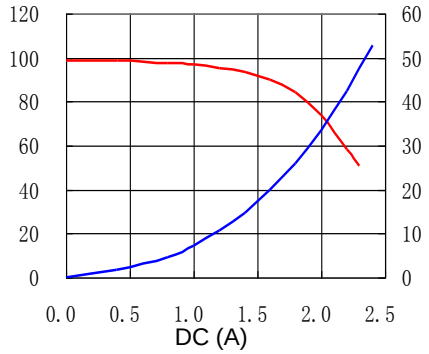
Saturation Current & Temperature Rise Graph

L (20℃) △T

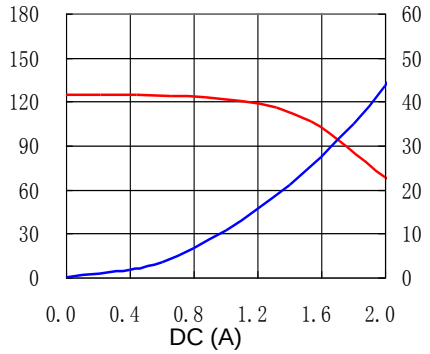
13. CDRH125/LDNP-820MC



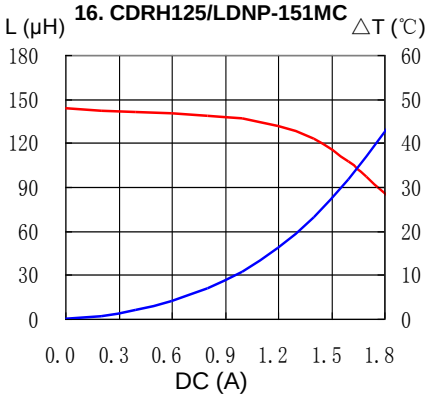
14. CDRH125/LDNP-101MC



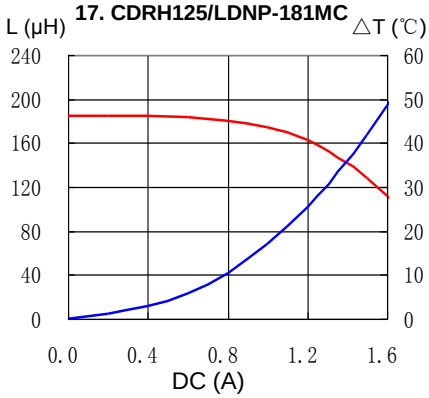
15. CDRH125/LDNP-121MC



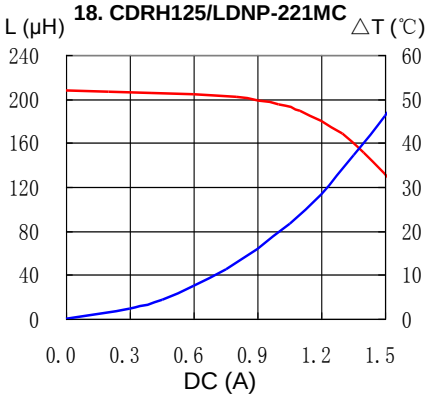
16. CDRH125/LDNP-151MC



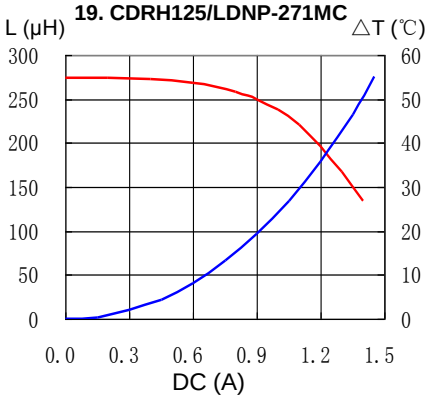
17. CDRH125/LDNP-181MC



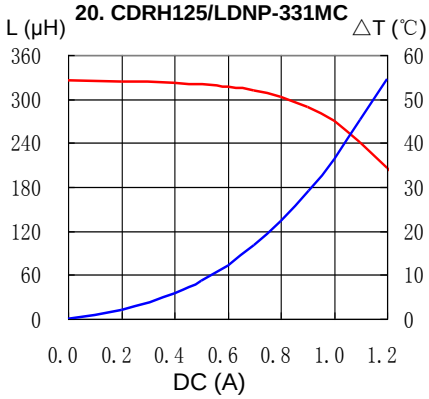
18. CDRH125/LDNP-221MC



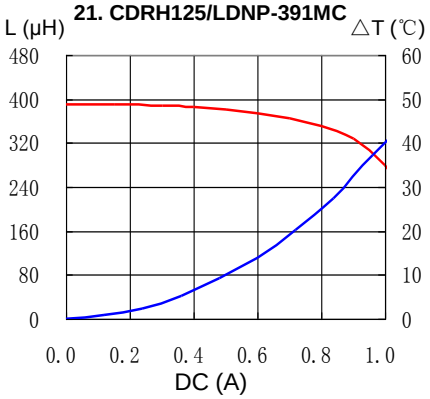
19. CDRH125/LDNP-271MC



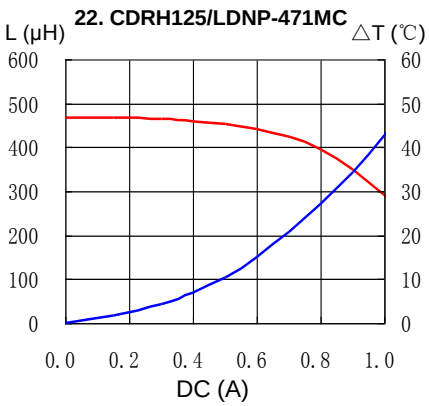
20. CDRH125/LDNP-331MC



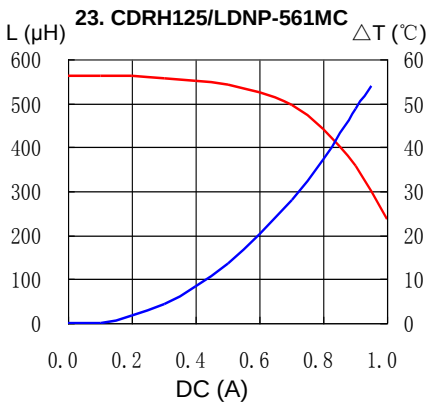
21. CDRH125/LDNP-391MC



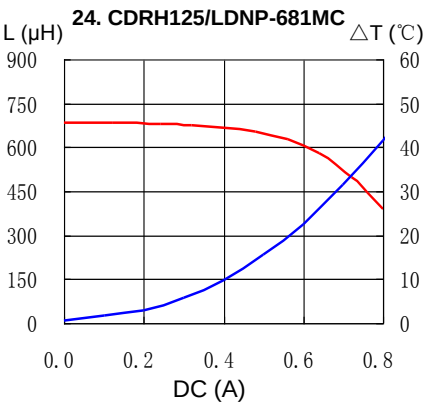
22. CDRH125/LDNP-471MC



23. CDRH125/LDNP-561MC



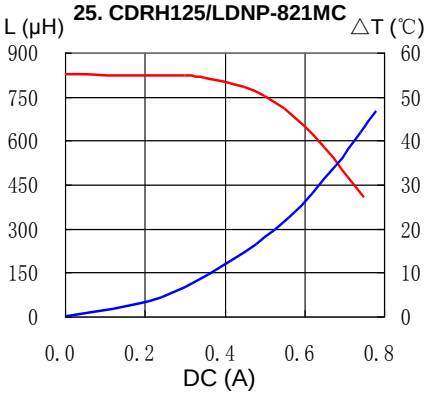
24. CDRH125/LDNP-681MC



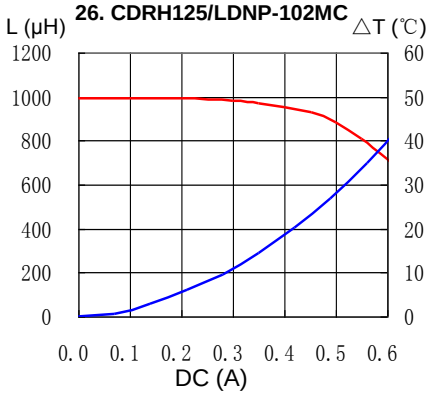
Saturation Current & Temperature Rise Graph

L (20℃) △T

25. CDRH125/LDNP-821MC

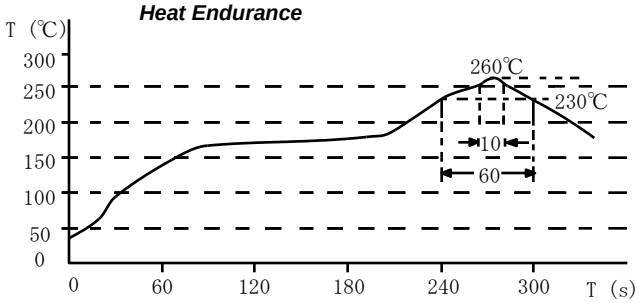


26. CDRH125/LDNP-102MC

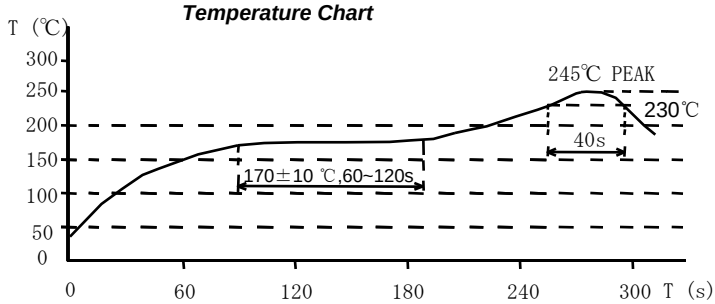


Solder Reflow Condition

Heat Endurance



Temperature Chart



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