THE DATASHEET OF

CDRH127NP-471MC

SMD Power Inductor
CDRH127

RoHS

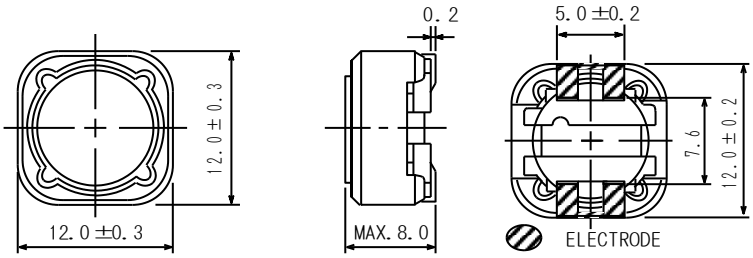
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

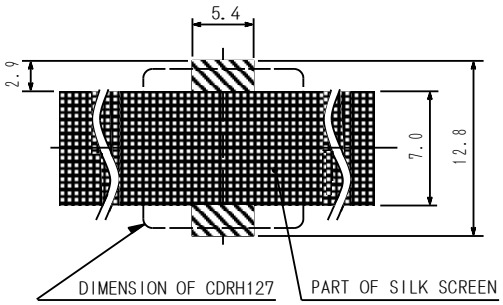
Packaging
- Carrier tape and reel packaging
- 13"diameter reel
- 500pcs per reel

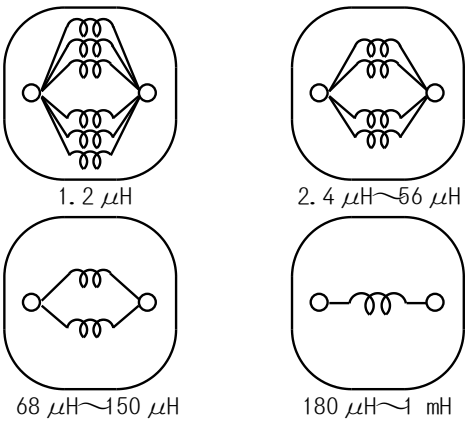
Applications
- Ideally used in Notebook PC, LCD TV,DVD, Game machine, STB ,Projector etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]





Revised: 2-Apr-20

Electrical Characteristics

PART NO.	STAMP	INDUCTANCE ［WITHIN］ ※1	D.C.R. (Ω) (at 20℃) MAX.(TYP.)	SATURATION CURRENT (A)※2 MAX.(TYP.)	TEMPERATURE RISE CURRENT (A)※3
CDRH127NP-1R2NC	1R2	1.2μH ＋40 －20%	7.0m(5.2m)	19.2(24.0)	11.3
CDRH127NP-2R4NC	2R4	2.4μH ＋40 －20%	11.5m(8.5m)	15.2(19.0)	8.9
CDRH127NP-3R5NC	3R5	3.5μH ＋40 －20%	13.5m(10.0m)	12.4(15.5)	8.4
CDRH127NP-4R7NC	4R7	4.7μH ＋40 －20%	15.8m(11.7m)	11.3(14.2)	7.8
CDRH127NP-6R1NC	6R1	6.1μH ＋40 －20%	17.6m(13.0m)	9.4(11.8)	7.2
CDRH127NP-7R6NC	7R6	7.6μH ＋40 －20%	20.0m(15.0m)	8.8(11.0)	6.5
CDRH127NP-100MC	100	10 μH ± 20%	21.6m(16.0m)	7.6(9.5)	6.3
CDRH127NP-120MC	120	12 μH ± 20%	24.3m(18.0m)	7.3(9.2)	5.8
CDRH127NP-150MC	150	15 μH ± 20%	27.0m(20.0m)	6.2(7.8)	5.5
CDRH127NP-180MC	180	18 μH ± 20%	39.2m(29.0m)	5.6(7.1)	4.9
CDRH127NP-220MC	220	22 μH ± 20%	43.2m(32.0m)	5.1(6.4)	4.4
CDRH127NP-270MC	270	27 μH ± 20%	45.9m(34.0m)	4.7(5.9)	3.9
CDRH127NP-330MC	330	33 μH ± 20%	64.8m(48.0m)	4.2(5.3)	3.5
CDRH127NP-390MC	390	39 μH ± 20%	72.9m(54.0m)	4.0(5.0)	3.4
CDRH127NP-470MC	470	47 μH ± 20%	0.10 (76.0m)	3.6(4.5)	3.2
CDRH127NP-560MC	560	56 μH ± 20%	0.11 (83.0m)	3.0(3.8)	2.80
CDRH127NP-680MC	680	68 μH ± 20%	0.14 (0.10)	2.80(3.5)	2.50
CDRH127NP-820MC	820	82 μH ± 20%	0.16 (0.12)	2.56(3.2)	2.35
CDRH127NP-101MC	101	100μH ± 20%	0.22 (0.17)	2.40(3.0)	2.05
CDRH127NP-121MC	121	120μH ± 20%	0.25 (0.18)	2.28(2.85)	1.95
CDRH127NP-151MC	151	150μH ± 20%	0.28 (0.21)	1.96(2.45)	1.80
CDRH127NP-181MC	181	180μH ± 20%	0.35 (0.26)	1.84(2.30)	1.68
CDRH127NP-221MC	221	220μH ± 20%	0.39 (0.29)	1.60(2.00)	1.55
CDRH127NP-271MC	271	270μH ± 20%	0.56 (0.42)	1.48(1.85)	1.40
CDRH127NP-331MC	331	330μH ± 20%	0.64 (0.47)	1.32(1.65)	1.30
CDRH127NP-391MC	391	390μH ± 20%	0.70 (0.52)	1.24(1.55)	1.20
CDRH127NP-471MC	471	470μH ± 20%	0.98 (0.73)	1.12(1.40)	1.08
CDRH127NP-561MC	561	560μH ± 20%	1.07 (0.79)	1.02(1.28)	0.98
CDRH127NP-681MC	681	680μH ± 20%	1.46 (1.12)	0.96(1.20)	0.82
CDRH127NP-821MC	821	820μH ± 20%	1.64 (1.26)	0.86(1.08)	0.75
CDRH127NP-102MC	102	1.0 mH ± 20%	1.82 (1.40)	0.77(0.96)	0.70

※1 Measured frequency L 1.2μH ～ 7.6μH ; at 100 kHz
10 μH ～ 1 mH ; at 1 kHz

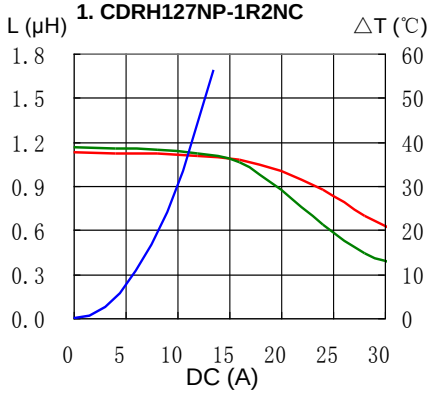
※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than it's initial value. (Ta＝20℃)

※3 Temperature rise current : The actual value of D.C. current when the temperature of coil becomes △T=40℃ (Ta＝20℃).

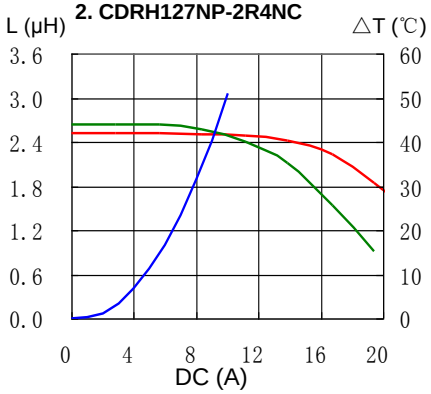
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

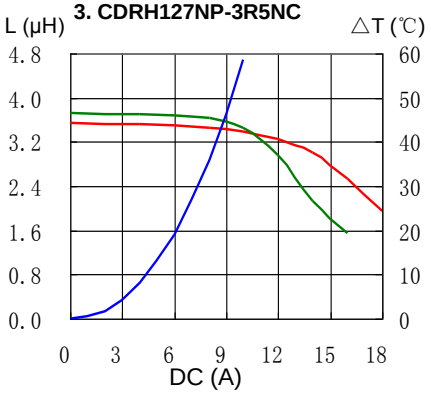
1. CDRH127NP-1R2NC



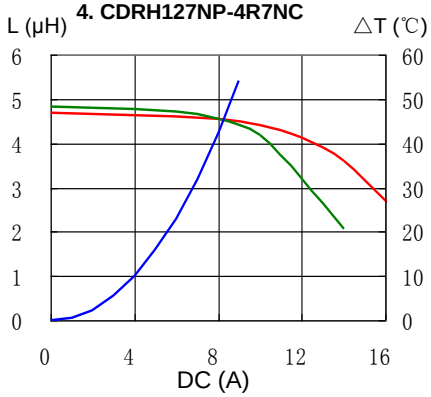
2. CDRH127NP-2R4NC



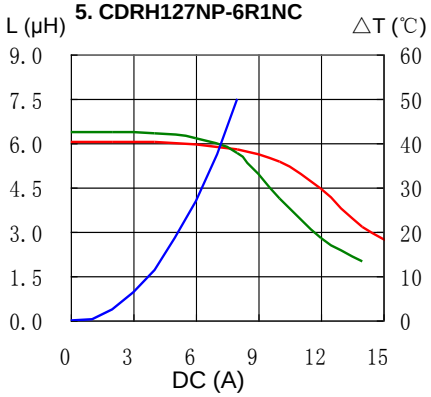
3. CDRH127NP-3R5NC



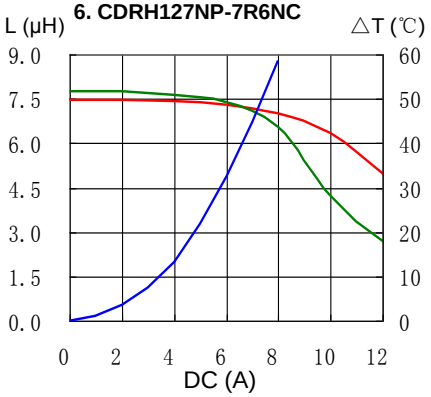
4. CDRH127NP-4R7NC



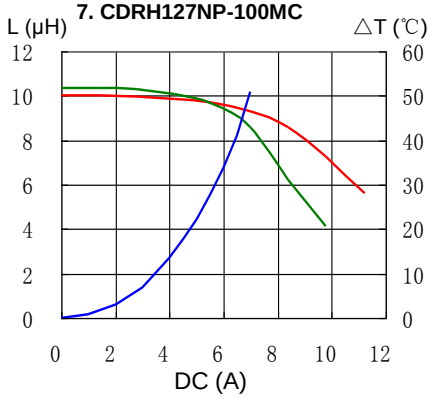
5. CDRH127NP-6R1NC



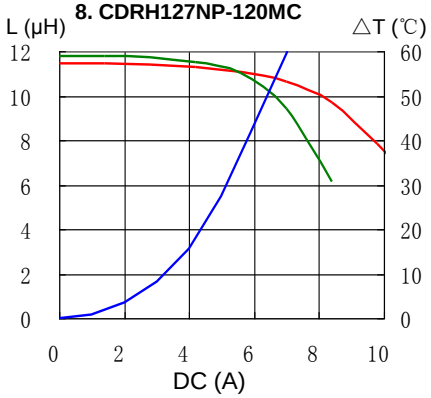
6. CDRH127NP-7R6NC



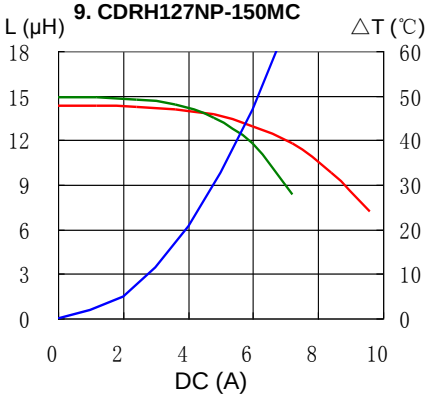
7. CDRH127NP-100MC



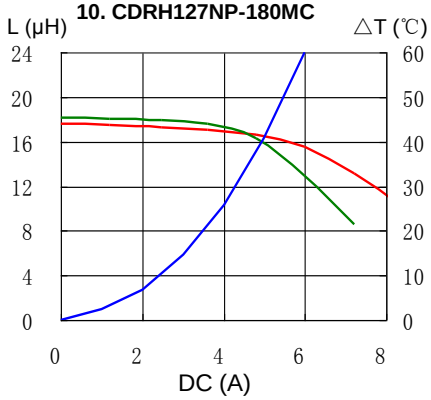
8. CDRH127NP-120MC



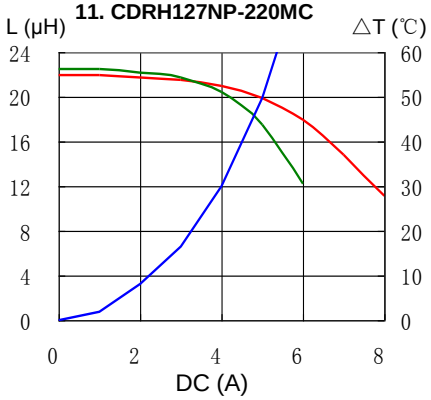
9. CDRH127NP-150MC



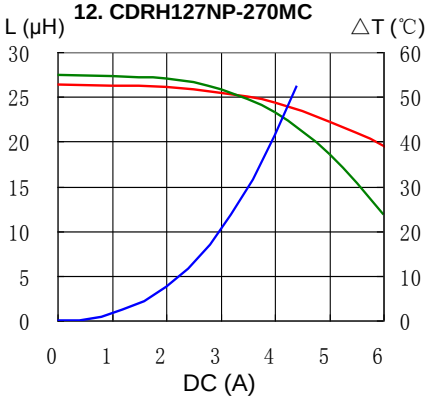
10. CDRH127NP-180MC



11. CDRH127NP-220MC



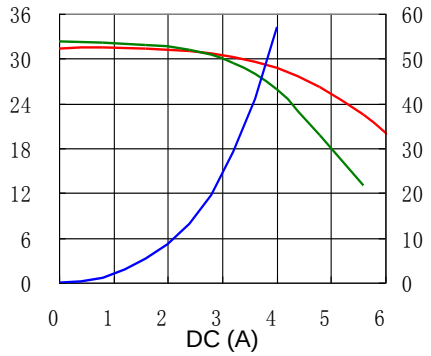
12. CDRH127NP-270MC



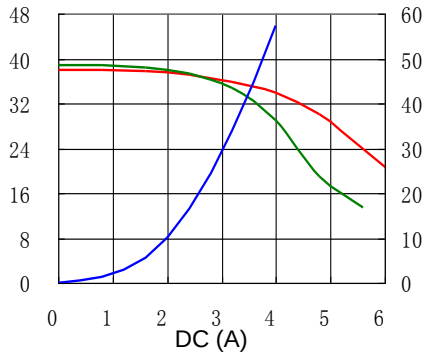
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

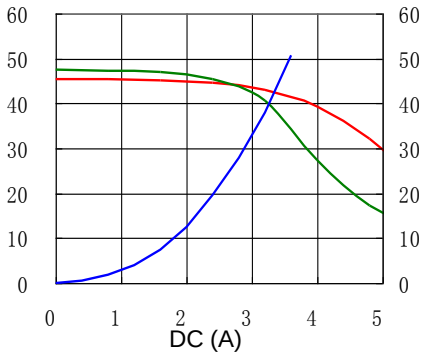
13. CDRH127NP-330MC



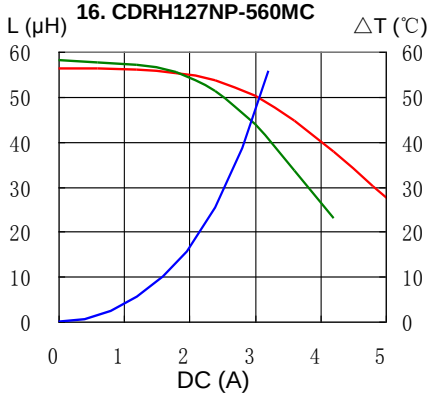
14. CDRH127NP-390MC



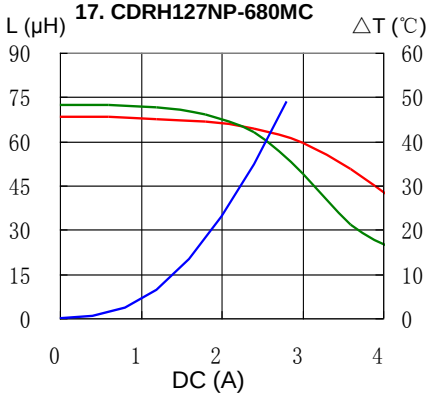
15. CDRH127NP-470MC



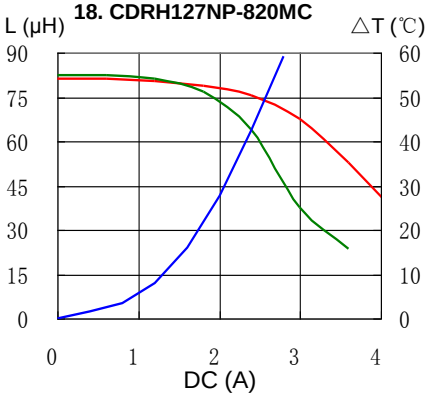
16. CDRH127NP-560MC



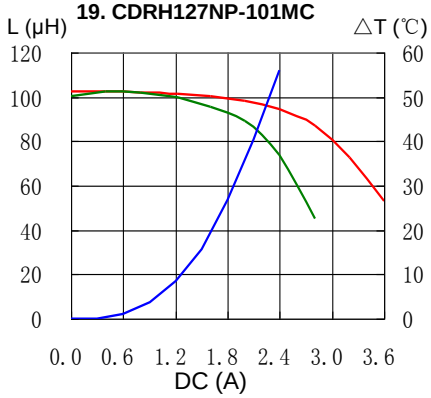
17. CDRH127NP-680MC



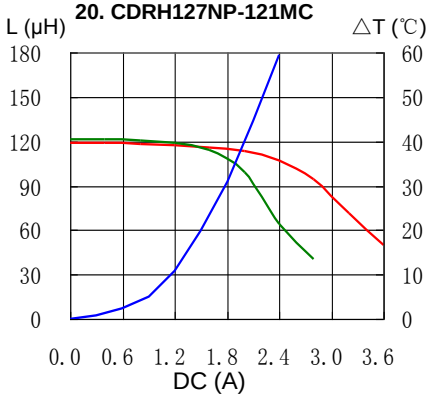
18. CDRH127NP-820MC



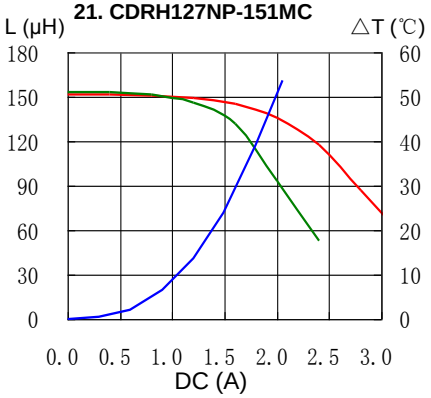
19. CDRH127NP-101MC



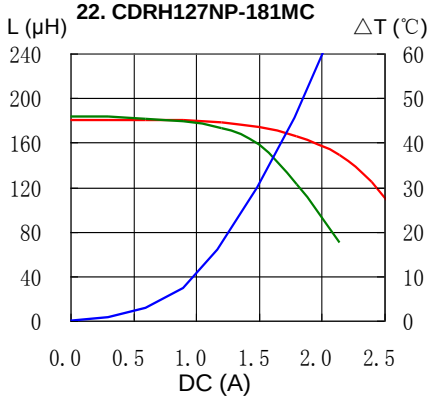
20. CDRH127NP-121MC



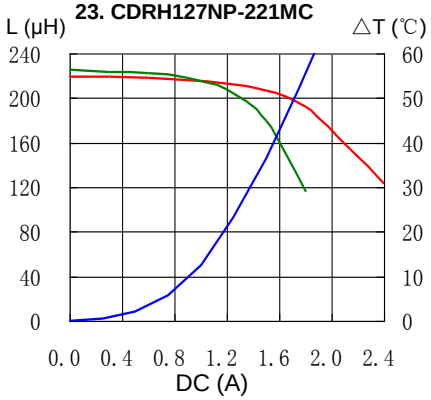
21. CDRH127NP-151MC



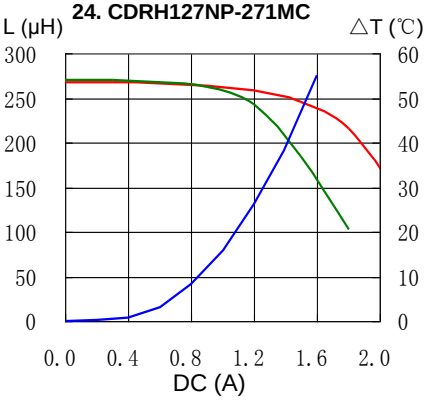
22. CDRH127NP-181MC



23. CDRH127NP-221MC



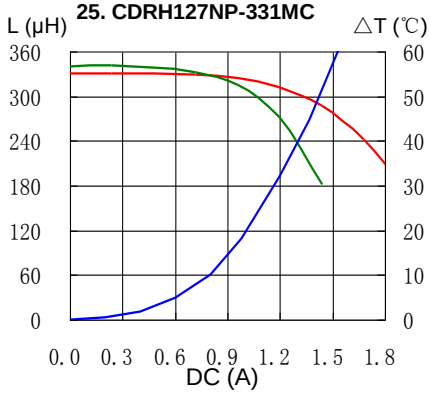
24. CDRH127NP-271MC



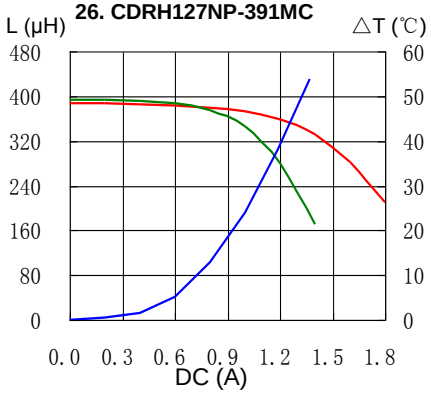
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

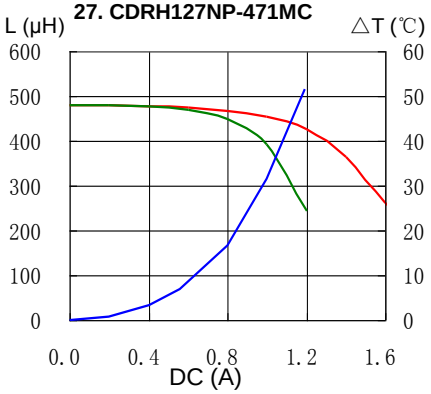
25. CDRH127NP-331MC



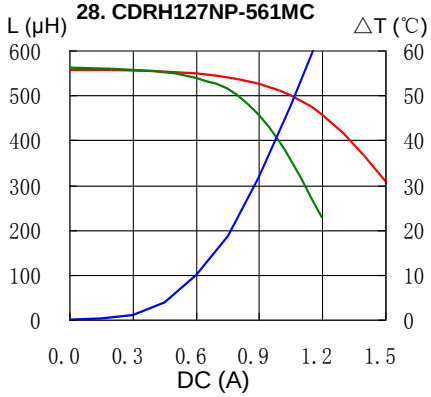
26. CDRH127NP-391MC



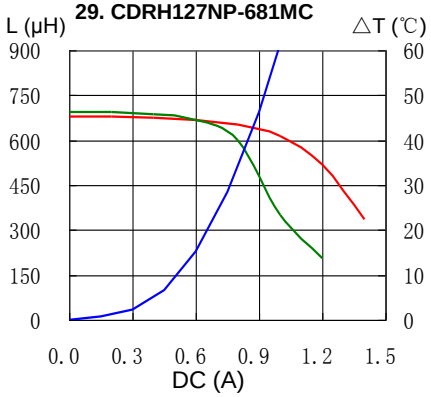
27. CDRH127NP-471MC



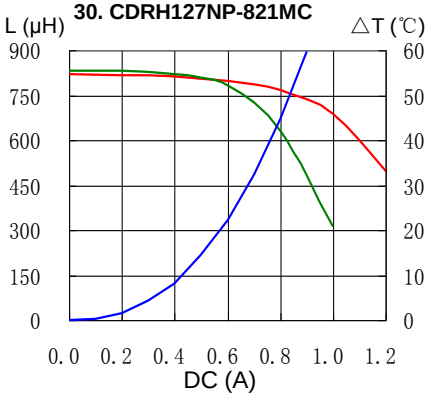
28. CDRH127NP-561MC



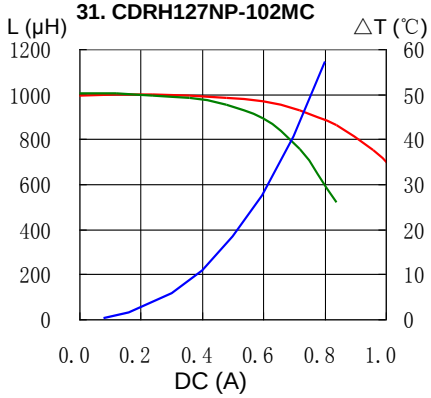
29. CDRH127NP-681MC



30. CDRH127NP-821MC

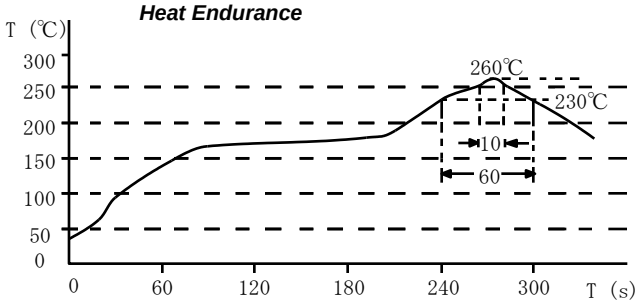


31. CDRH127NP-102MC

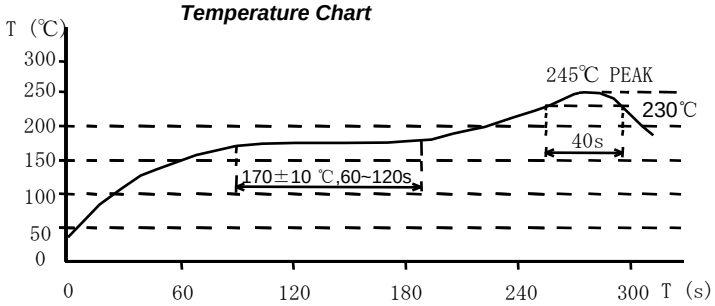


Solder Reflow Condition

Heat Endurance



Temperature Chart



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Hong Kong
Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Shanghai
Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

Saitama(Japan)
Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Singapore
Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Obernzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
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