Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

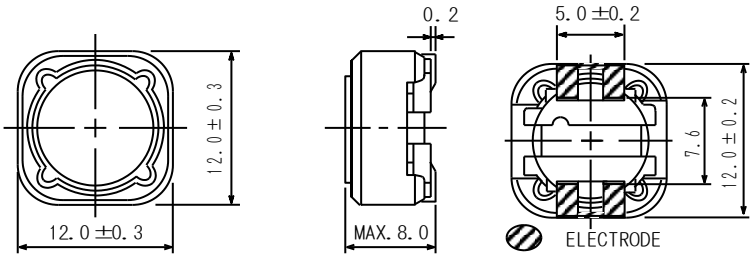
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

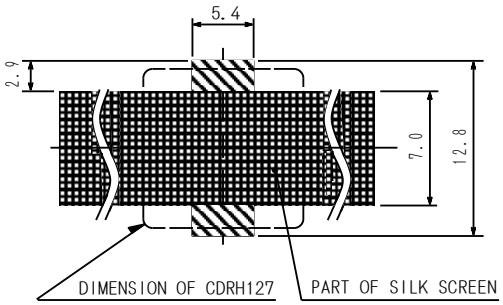
SMD Power Inductor
CDRH127

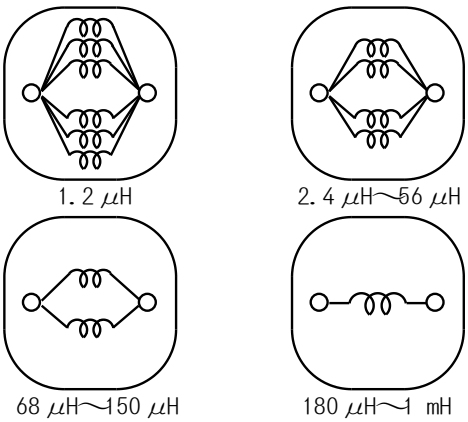
RoHS

Dimension - [mm]



Land pattern and Schematics - [mm]





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.

Revised: 6-Jan-17

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Rated Current (A) ※2
CDRH127NP-1R2NC	1R2	+40% 1.2 −20%	7.0m(5.2m)	9.80
CDRH127NP-2R4NC	2R4	+40% 2.4 −20%	11.5m(8.5m)	8.00
CDRH127NP-3R5NC	3R5	+40% 3.5 −20%	13.5m(10.0m)	7.50
CDRH127NP-4R7NC	4R7	+40% 4.7 −20%	15.8m(11.7m)	6.80
CDRH127NP-6R1NC	6R1	+40% 6.1 −20%	17.6m(13.0m)	6.60
CDRH127NP-7R6NC	7R6	+40% 7.6 −20%	20.0m(15.0m)	5.90
CDRH127NP-100MC	100	10±20%	21.6m(16.0m)	5.40
CDRH127NP-120MC	120	12±20%	24.3m(18.0m)	4.90
CDRH127NP-150MC	150	15±20%	27.0m(20.0m)	4.50
CDRH127NP-180MC	180	18±20%	39.2m(29.0m)	3.90
CDRH127NP-220MC	220	22±20%	43.2m(32.0m)	3.60
CDRH127NP-270MC	270	27±20%	45.9m(34.0m)	3.40
CDRH127NP-330MC	330	33±20%	64.8m(48.0m)	3.00
CDRH127NP-390MC	390	39±20%	72.9m(54.0m)	2.75
CDRH127NP-470MC	470	47±20%	0.10 (76.0m)	2.50
CDRH127NP-560MC	560	56±20%	0.11 (83.0m)	2.35
CDRH127NP-680MC	680	68±20%	0.14 (0.10)	2.10
CDRH127NP-820MC	820	82±20%	0.16 (0.12)	1.95
CDRH127NP-101MC	101	100±20%	0.22 (0.17)	1.70
CDRH127NP-121MC	121	120±20%	0.25 (0.18)	1.60
CDRH127NP-151MC	151	150±20%	0.28 (0.21)	1.42
CDRH127NP-181MC	181	180±20%	0.35 (0.26)	1.30
CDRH127NP-221MC	221	220±20%	0.39 (0.29)	1.16
CDRH127NP-271MC	271	270±20%	0.56 (0.42)	1.06
CDRH127NP-331MC	331	330±20%	0.64 (0.47)	0.95
CDRH127NP-391MC	391	390±20%	0.70 (0.52)	0.88
CDRH127NP-471MC	471	470±20%	0.98 (0.73)	0.79
CDRH127NP-561MC	561	560±20%	1.07 (0.79)	0.73
CDRH127NP-681MC	681	680±20%	1.46 (1.12)	0.67
CDRH127NP-821MC	821	820±20%	1.64 (1.26)	0.60
CDRH127NP-102MC	102	1000±20%	1.82 (1.40)	0.55

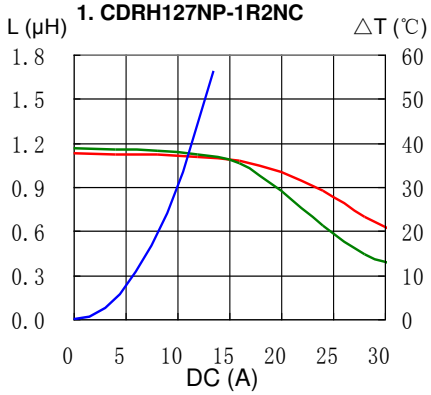
※1. Inductance measuring condition: 1.2μH ～ 7.6μH ; at 100 kHz
10 μH ～ 1 mH ; at 1 kHz

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

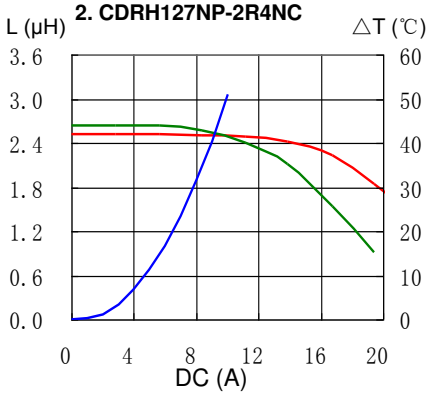
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

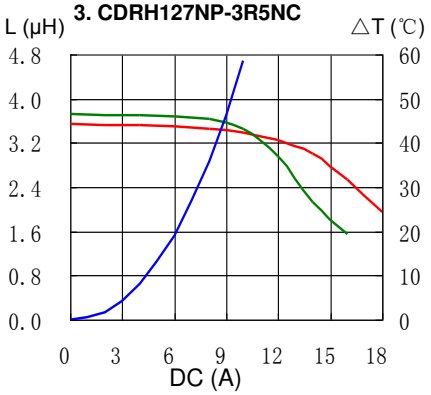
1. CDRH127NP-1R2NC



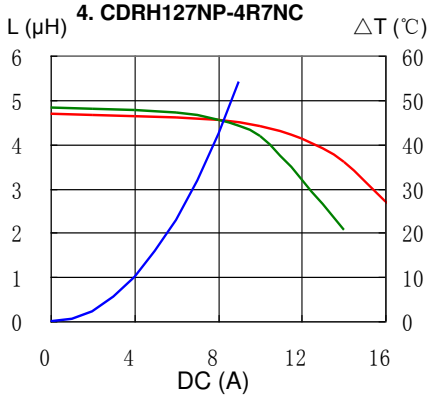
2. CDRH127NP-2R4NC



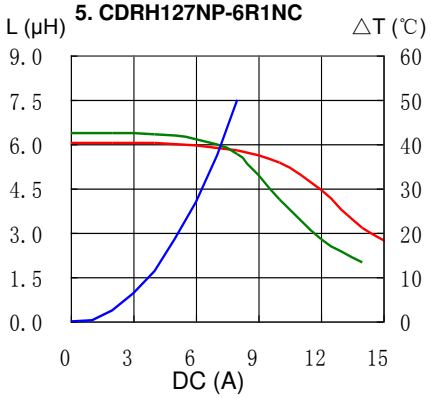
3. CDRH127NP-3R5NC



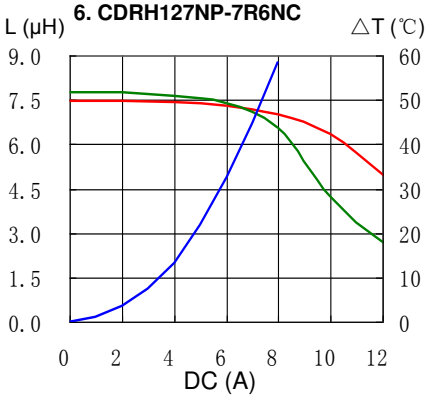
4. CDRH127NP-4R7NC



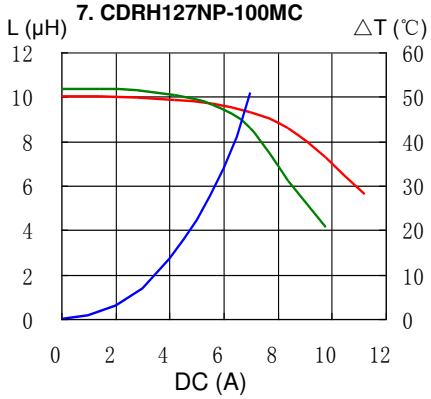
5. CDRH127NP-6R1NC



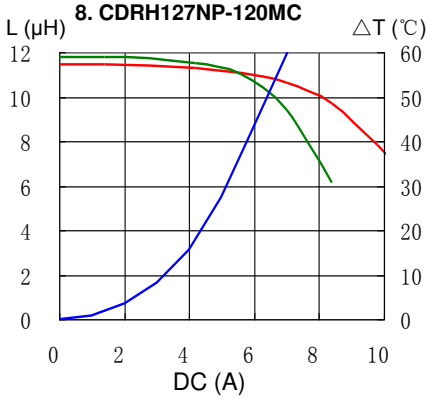
6. CDRH127NP-7R6NC



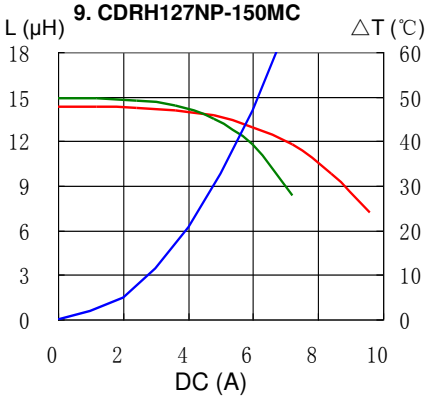
7. CDRH127NP-100MC



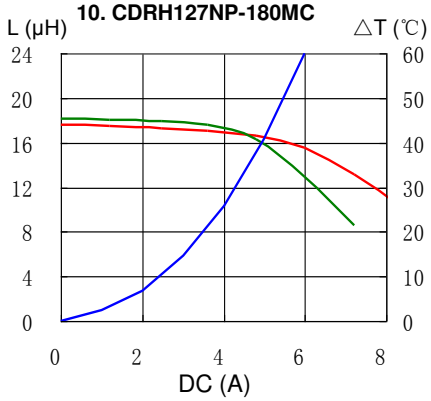
8. CDRH127NP-120MC



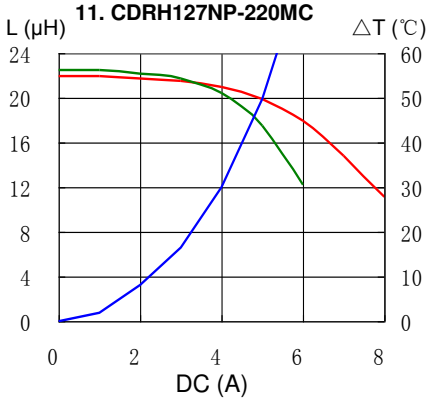
9. CDRH127NP-150MC



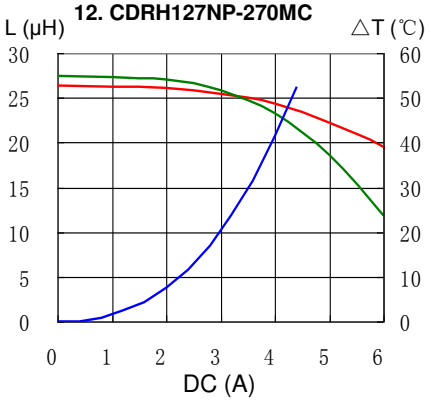
10. CDRH127NP-180MC



11. CDRH127NP-220MC



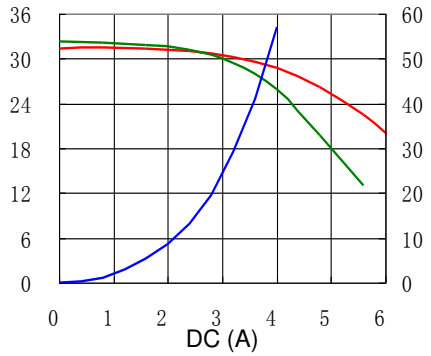
12. CDRH127NP-270MC



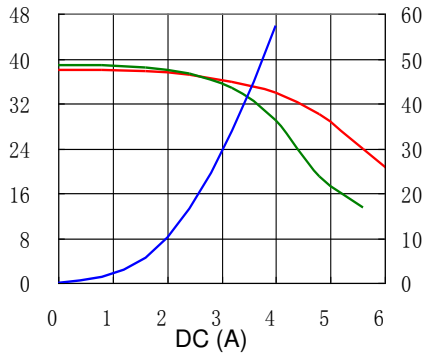
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

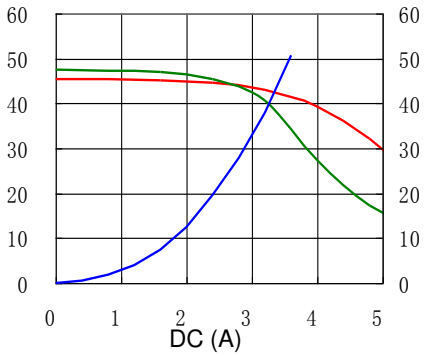
13. CDRH127NP-330MC



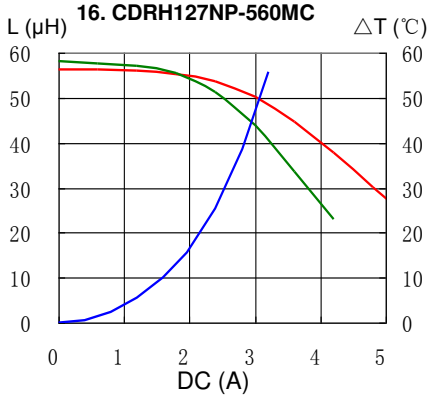
14. CDRH127NP-390MC



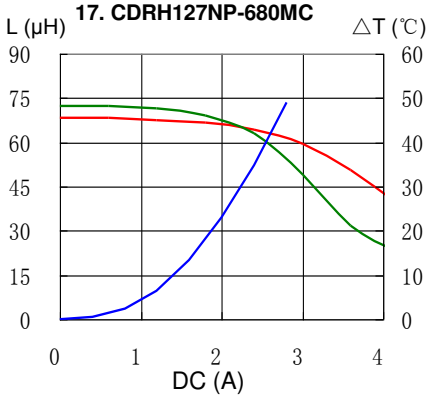
15. CDRH127NP-470MC



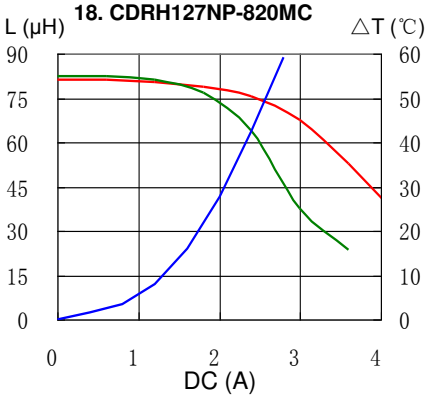
16. CDRH127NP-560MC



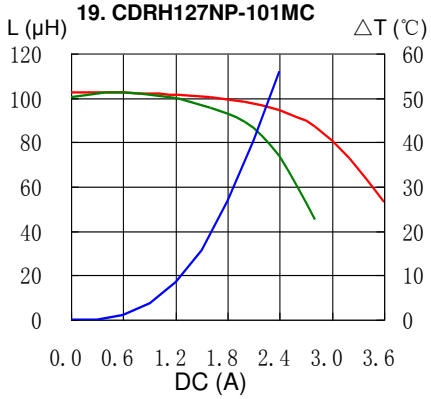
17. CDRH127NP-680MC



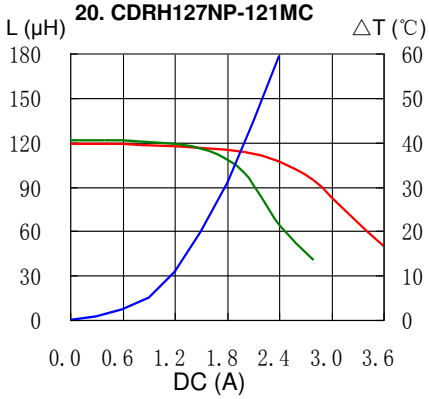
18. CDRH127NP-820MC



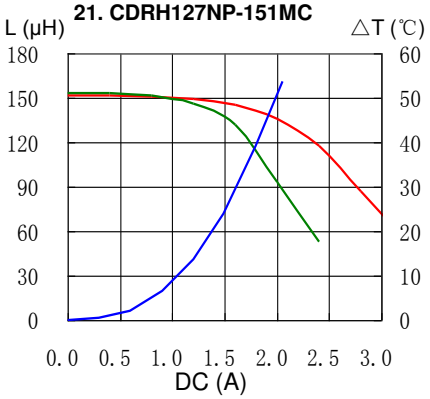
19. CDRH127NP-101MC



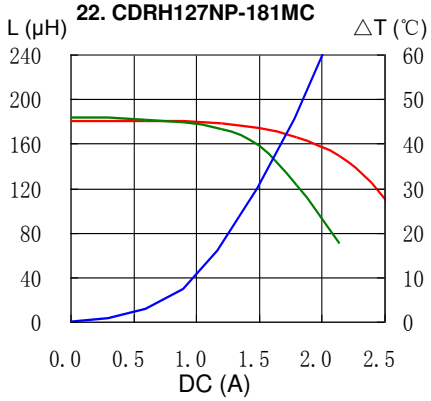
20. CDRH127NP-121MC



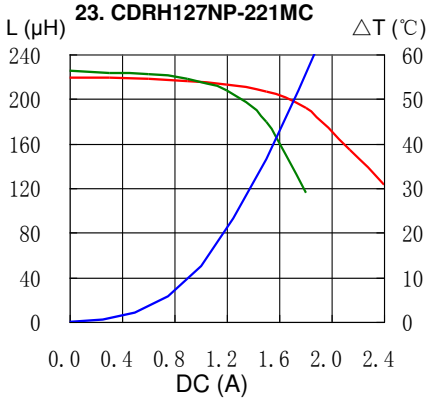
21. CDRH127NP-151MC



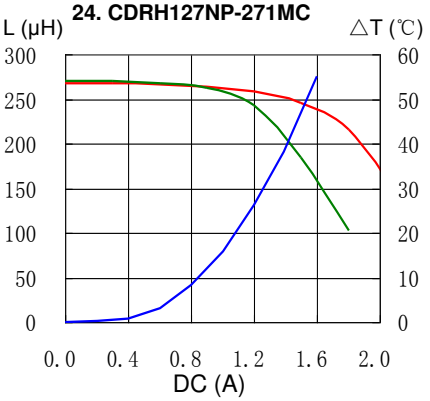
22. CDRH127NP-181MC



23. CDRH127NP-221MC



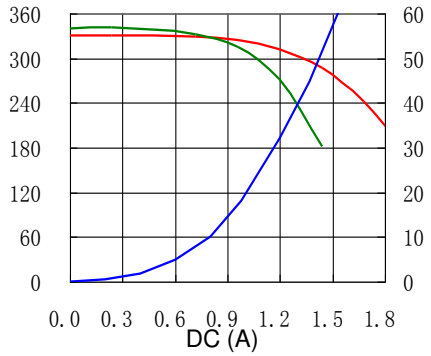
24. CDRH127NP-271MC



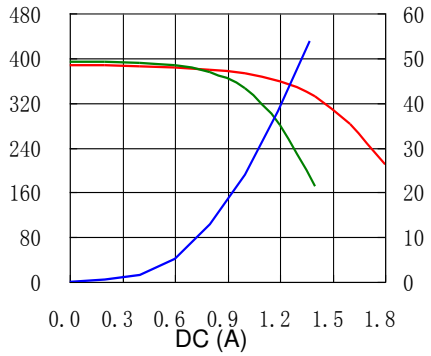
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

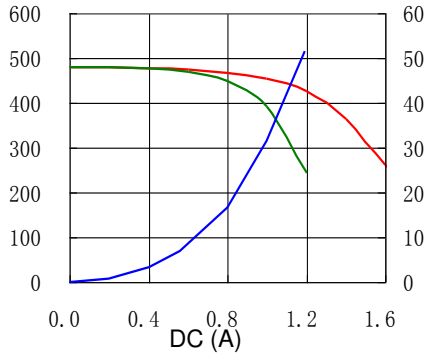
25. CDRH127NP-331MC



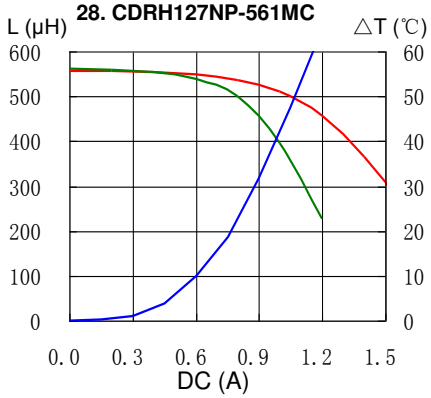
26. CDRH127NP-391MC



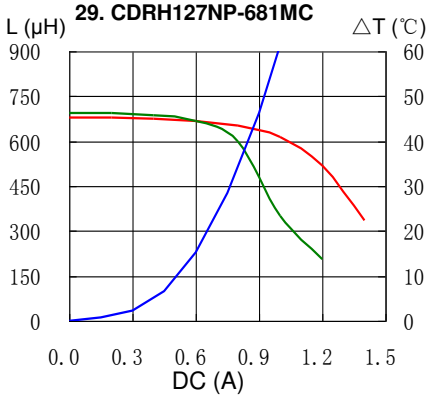
27. CDRH127NP-471MC



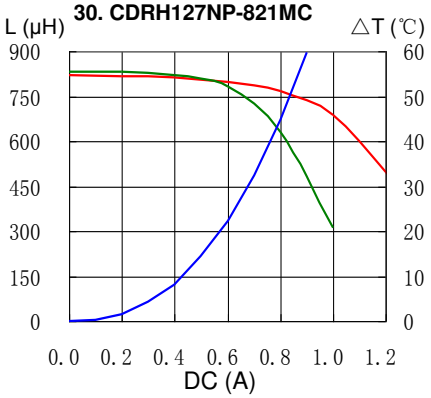
28. CDRH127NP-561MC



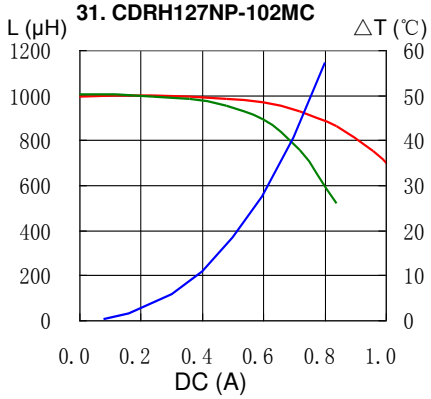
29. CDRH127NP-681MC



30. CDRH127NP-821MC

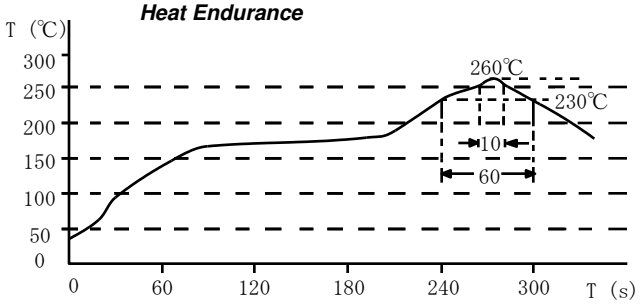


31. CDRH127NP-102MC

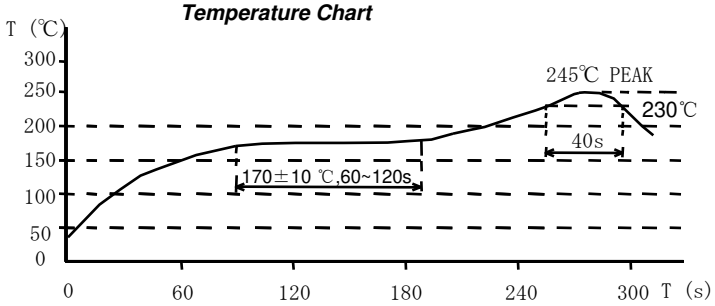


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - http://www.sumida.com

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
infocomp@eu.sumida.com