WINSOURCE ELECTRONICS

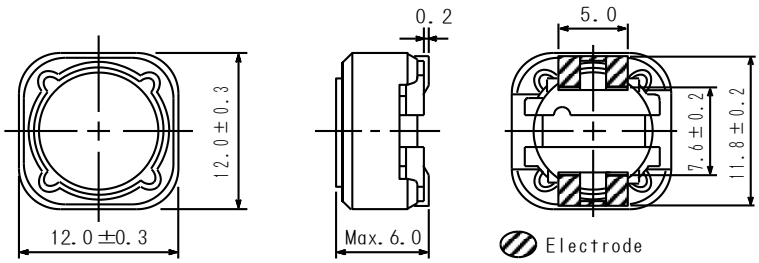
THE DATASHEET OF

CDRH125NP-471MC

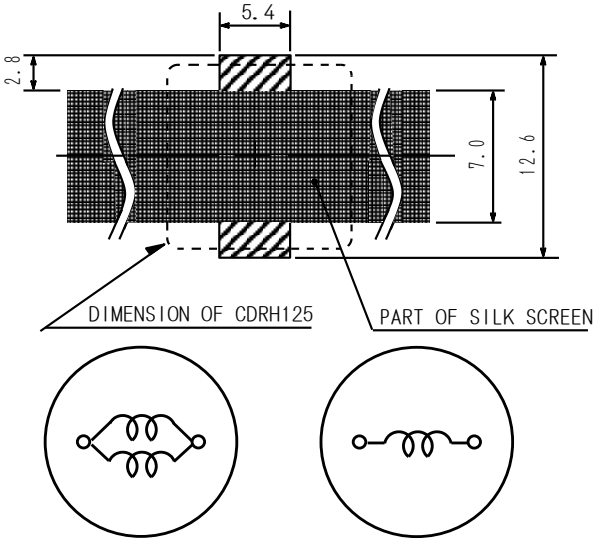
SMD Power Inductor
CDRH125

RoHS

Dimension - [mm]



Land pattern and Schematics - [mm]



1.3μH ~ 47μH　　56μH～1mH

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 DC-DC converter inductors.

Electrical Characteristics

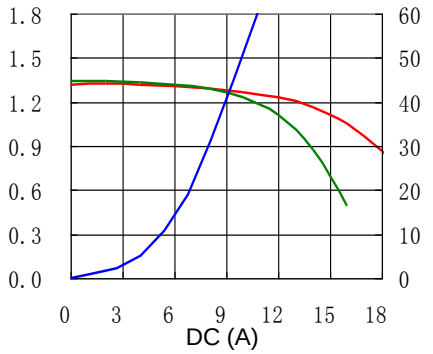
PART NO.	STAMP	INDUCTANCE ［WITHIN］ ※1	D.C.R. (Ω) (at 20℃) MAX.(TYP.)	SATURATION CURRENT (A)※2 MAX.(TYP.)	TEMPERATURE RISE CURRENT (A)※3
CDRH125NP-100MC	100	10μH±20%	25m(19m)	5.48(6.85)	5.60
CDRH125NP-120MC	120	12μH±20%	27m(21m)	4.88(6.10)	5.20
CDRH125NP-150MC	150	15μH±20%	30m(23m)	4.48(5.60)	5.00
CDRH125NP-180MC	180	18μH±20%	34m(26m)	4.24(5.30)	4.50
CDRH125NP-220MC	220	22μH±20%	36m(28m)	3.84(4.80)	4.25
CDRH125NP-270MC	270	27μH±20%	51m(39m)	3.40(4.25)	3.50
CDRH125NP-330MC	330	33μH±20%	57m(44m)	3.08(3.85)	2.95
CDRH125NP-390MC	390	39μH±20%	68m(52m)	2.80(3.50)	2.90
CDRH125NP-470MC	470	47μH±20%	75m(58m)	2.44(3.05)	2.80
CDRH125NP-560MC	560	56μH±20%	0.11(84m)	2.34(2.92)	2.70
CDRH125NP-680MC	680	68μH±20%	0.12(93m)	2.16(2.70)	2.55
CDRH125NP-820MC	820	82μH±20%	0.14(0.11)	1.80(2.25)	2.50
CDRH125NP-101MC	101	100μH±20%	0.16(0.12)	1.72(2.15)	2.28
CDRH125NP-121MC	121	120μH±20%	0.17(0.13)	1.49(1.86)	2.05
CDRH125NP-151MC	151	150μH±20%	0.23(0.18)	1.36(1.70)	1.80
CDRH125NP-181MC	181	180μH±20%	0.29(0.22)	1.30(1.62)	1.75
CDRH125NP-221MC	221	220μH±20%	0.40(0.31)	1.16(1.45)	1.56
CDRH125NP-271MC	271	270μH±20%	0.46(0.35)	1.06(1.32)	1.38
CDRH125NP-331MC	331	330μH±20%	0.51(0.39)	0.96(1.20)	1.25
CDRH125NP-391MC	391	390μH±20%	0.69(0.53)	0.86(1.08)	1.20
CDRH125NP-471MC	471	470μH±20%	0.77(0.59)	0.76(0.95)	1.05
CDRH125NP-561MC	561	560μH±20%	0.86(0.66)	0.70(0.88)	0.90
CDRH125NP-681MC	681	680μH±20%	1.20(0.92)	0.66(0.82)	0.80
CDRH125NP-821MC	821	820μH±20%	1.34(1.03)	0.59(0.74)	0.72
CDRH125NP-102MC	102	1.0mH±20%	1.53(1.18)	0.52(0.65)	0.66

※1 Measured frequency　L　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 ΔT=40℃ (Ta=20℃).

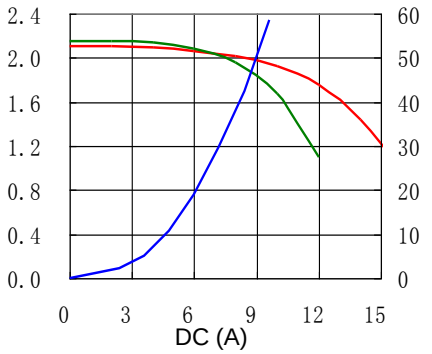
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

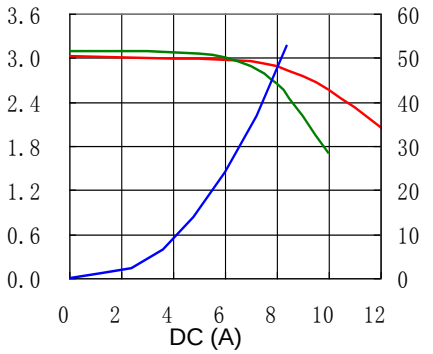
1. CDRH125NP-1R3NC



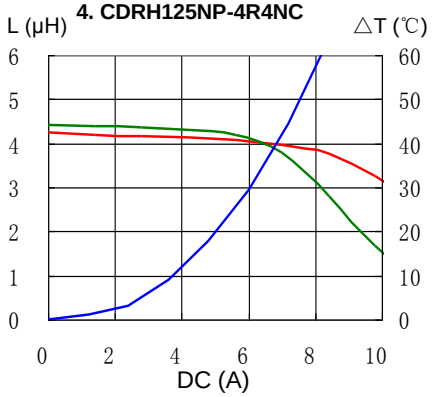
2. CDRH125NP-2R1NC



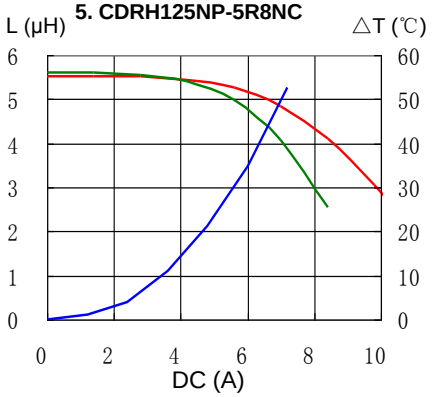
3. CDRH125NP-3R1NC



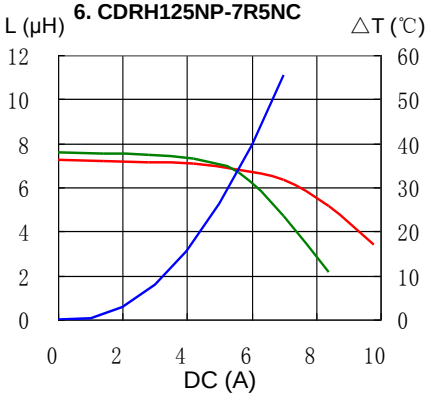
4. CDRH125NP-4R4NC



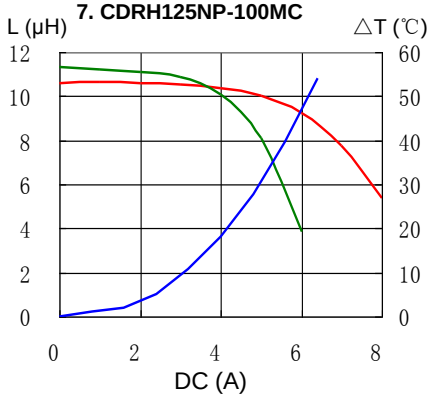
5. CDRH125NP-5R8NC



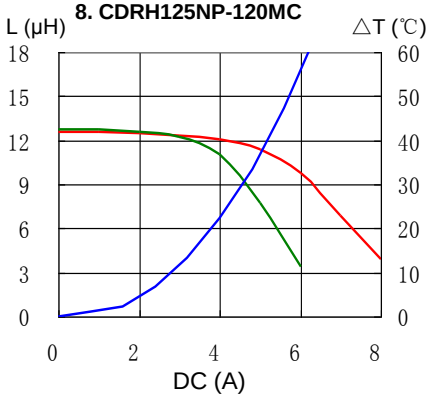
6. CDRH125NP-7R5NC



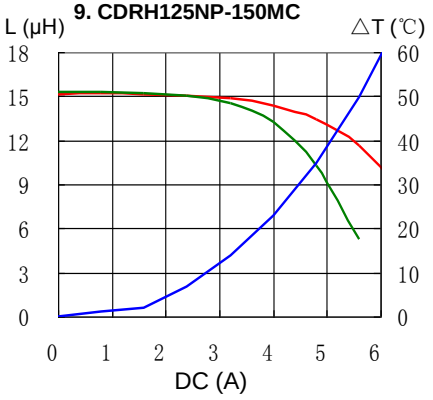
7. CDRH125NP-100MC



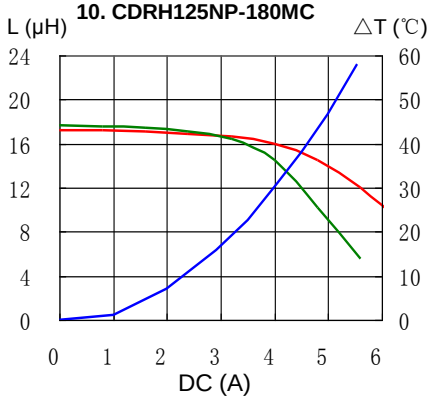
8. CDRH125NP-120MC



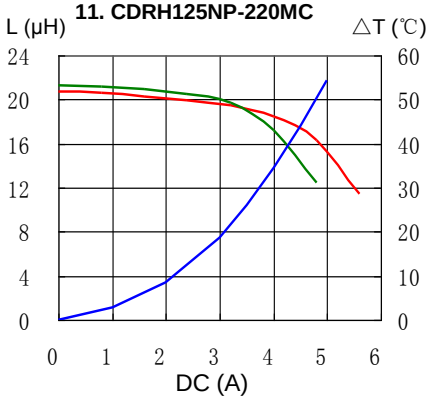
9. CDRH125NP-150MC



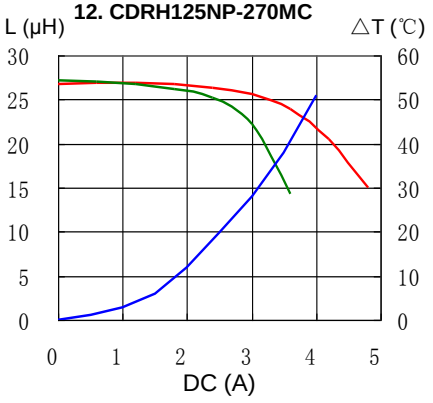
10. CDRH125NP-180MC



11. CDRH125NP-220MC



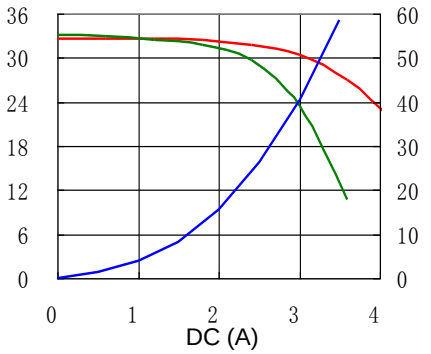
12. CDRH125NP-270MC



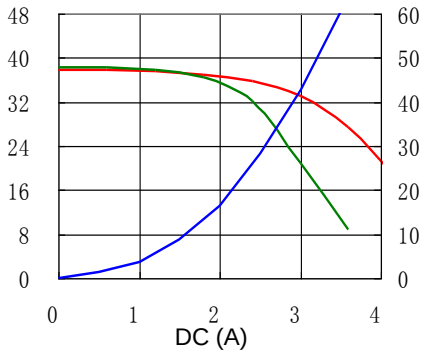
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

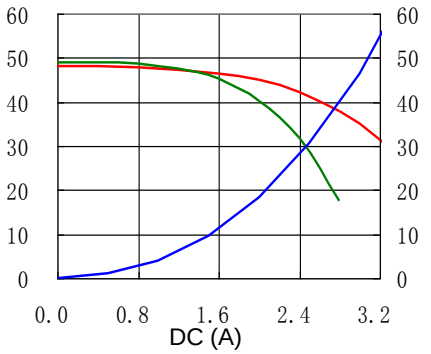
13. CDRH125NP-330MC



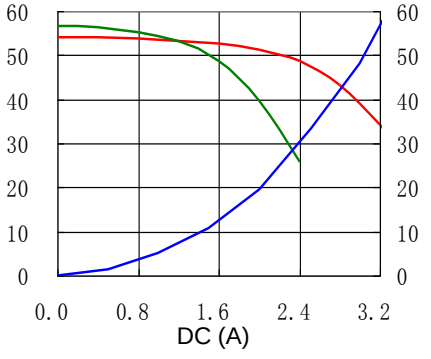
14. CDRH125NP-390MC



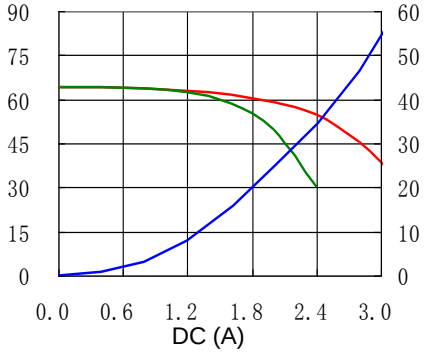
15. CDRH125NP-470MC



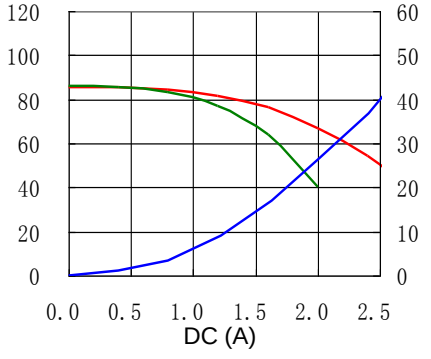
16. CDRH125NP-560MC



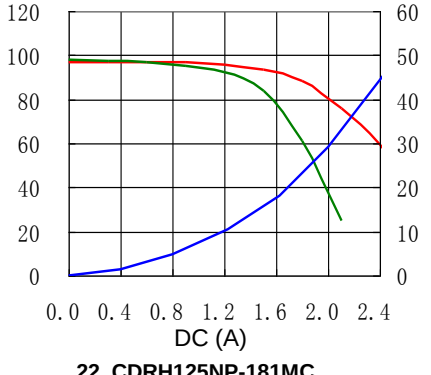
17. CDRH125NP-680MC



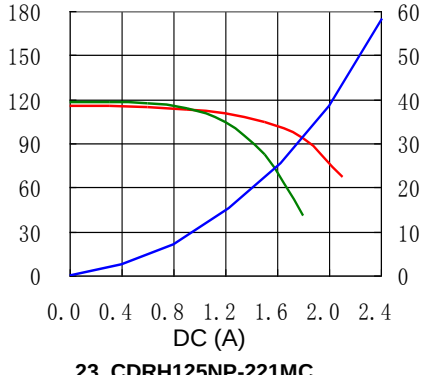
18. CDRH125NP-820MC



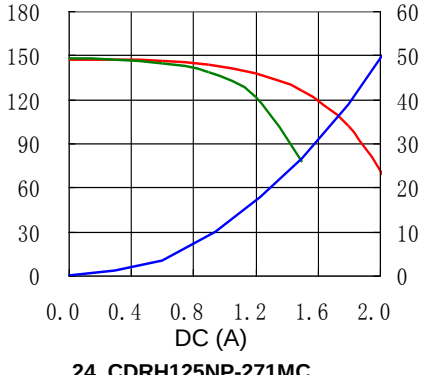
19. CDRH125NP-101MC



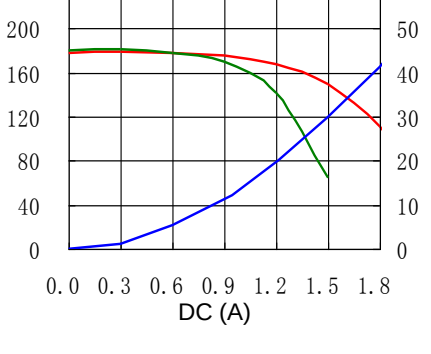
20. CDRH125NP-121MC



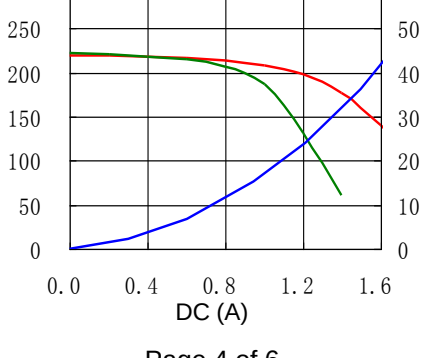
21. CDRH125NP-151MC



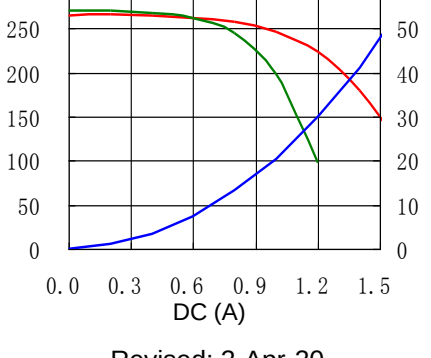
22. CDRH125NP-181MC



23. CDRH125NP-221MC



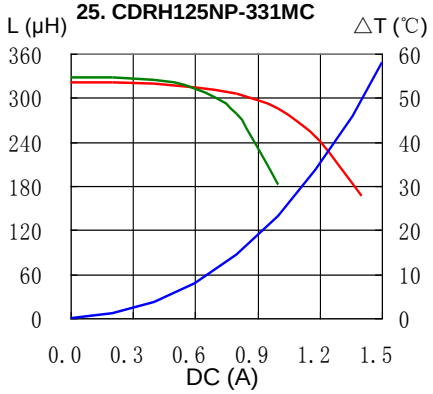
24. CDRH125NP-271MC



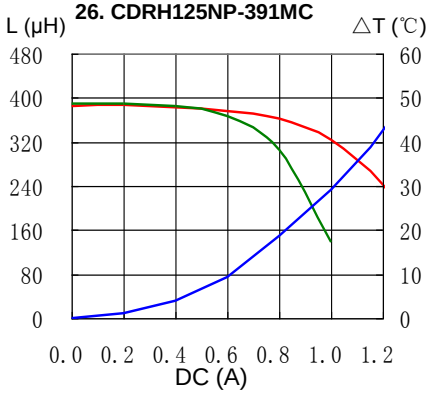
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

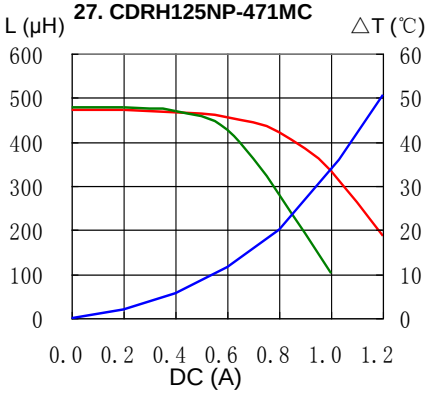
25. CDRH125NP-331MC



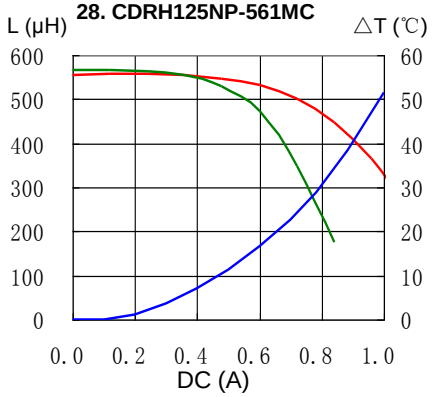
26. CDRH125NP-391MC



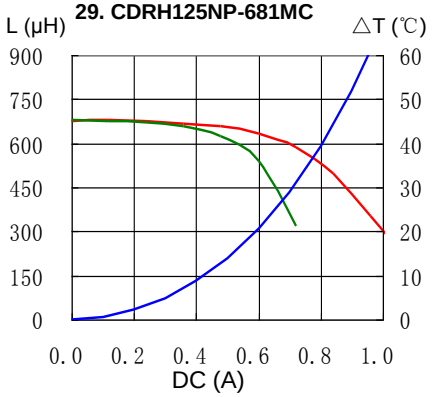
27. CDRH125NP-471MC



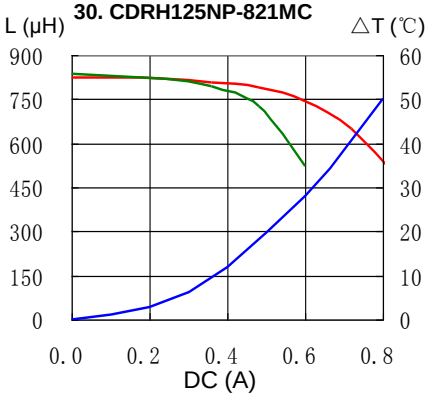
28. CDRH125NP-561MC



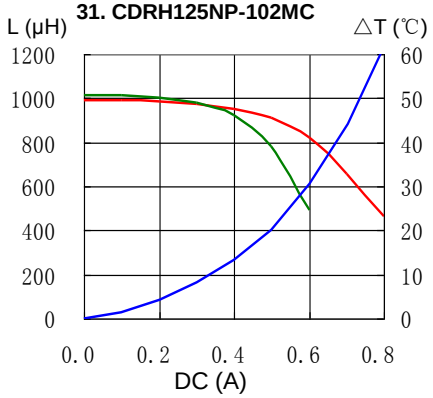
29. CDRH125NP-681MC



30. CDRH125NP-821MC

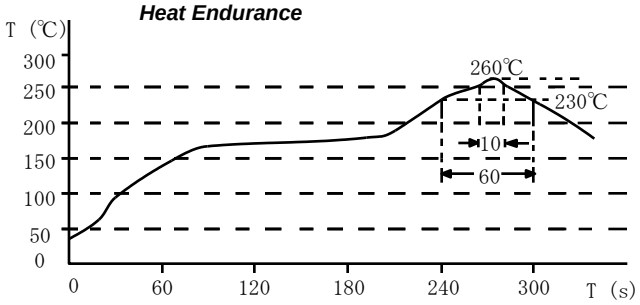


31. CDRH125NP-102MC

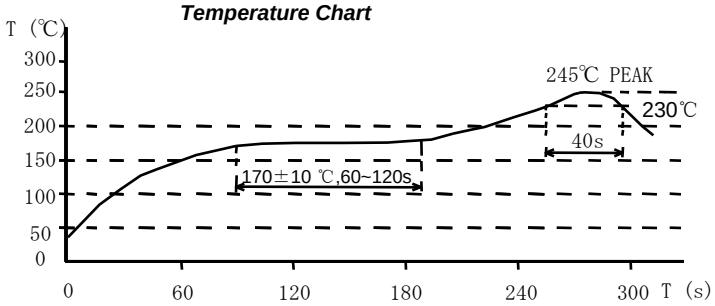


Solder Reflow Condition

Heat Endurance



Temperature Chart



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