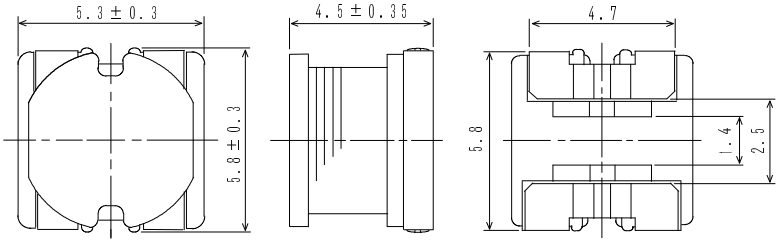
SMD Power Inductor
CR54

RoHS

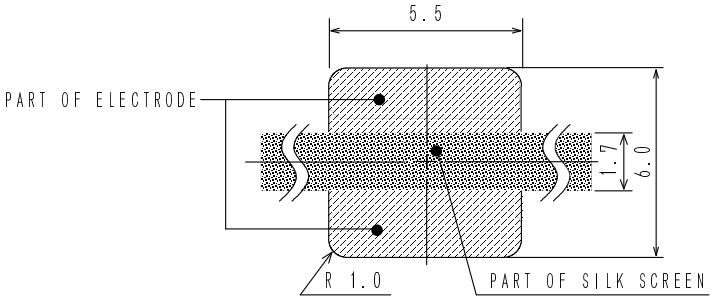
Halogen Free

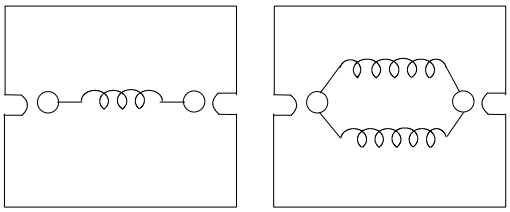


Dimension - [mm]



Land pattern and Schematics - [mm]





10μH～220μH　　2.2μH～8.5μH

Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L×W×H: 6.1×5.6×4.85 mm Max.
- Product weight: 0.41g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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
- 1500pcs per reel

Applications
- Ideally used in A/V equipment, LCD TV, DSC/DVC, Game Machine, DVC, HDD, Notebook PC, etc as DC-DC converter inductors.

Revised: 7-Jan-14

SMD Power Inductor
CR54

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (Ω) [Max.] (at 20℃)	Rated Current (A)※2
CR54NP-2R2MC	2R2	2.2±20 %	23.4m	3.84
CR54NP-2R7MC	2R7	2.7±20 %	26.0m	3.44
CR54NP-3R3MC	3R3	3.3±20 %	28.6m	3.20
CR54NP-3R9MC	3R9	3.9±20 %	35.1m	3.00
CR54NP-4R4MC	4R4	4.4±20 %	39.0m	2.80
CR54NP-5R0MC	5R0	5.0±20 %	44.2m	2.60
CR54NP-5R6MC	5R6	5.6±20 %	49.4m	2.48
CR54NP-6R4MC	6R4	6.4±20 %	52.0m	2.20
CR54NP-7R6MC	7R6	7.6±20 %	62.4m	2.08
CR54NP-8R5MC	8R5	8.5±20 %	67.6m	1.84
CR54NP-100MC	100	10±20 %	0.10	1.44
CR54NP-120MC	120	12±20 %	0.12	1.40
CR54NP-150MC	150	15±20 %	0.14	1.30
CR54NP-180MC	180	18±20 %	0.15	1.23
CR54NP-220MC	220	22±20 %	0.18	1.11
CR54NP-270MC	270	27±20 %	0.20	0.97
CR54NP-330LC	330	33±15 %	0.23	0.88
CR54NP-390LC	390	39±15 %	0.32	0.80
CR54NP-470LC	470	47±15 %	0.37	0.72
CR54NP-560KC	560	56±10 %	0.42	0.68
CR54NP-680KC	680	68±10 %	0.46	0.61
CR54NP-820KC	820	82±10 %	0.60	0.58
CR54NP-101KC	101	100±10 %	0.70	0.52
CR54NP-121KC	121	120±10 %	0.93	0.48
CR54NP-151KC	151	150±10 %	1.10	0.40
CR54NP-181KC	181	180±10 %	1.38	0.38
CR54NP-221KC	221	220±10 %	1.57	0.35

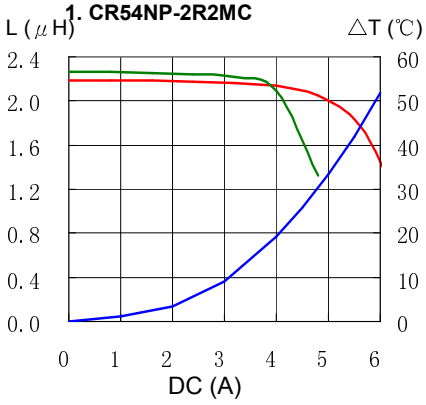
※1.Inductance measuring frequency: 2.2μH ~ 8.5μH ; at 7.96 MHz
10μH ~ 82μH ; at 2.52 MHz
100μH ~ 220μH ; at 1 kHz

2. Rated current: The D.C. current at which the inductance decreases to 90% of it's initial value or when △t=40℃, whichever is lower (Ta=20℃).

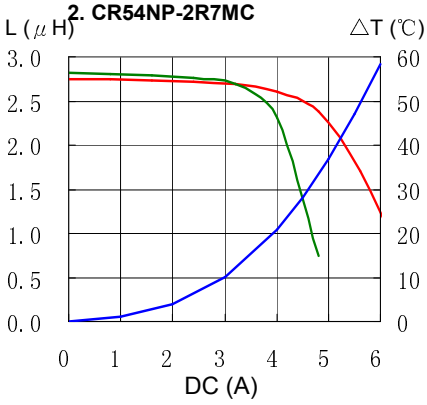
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

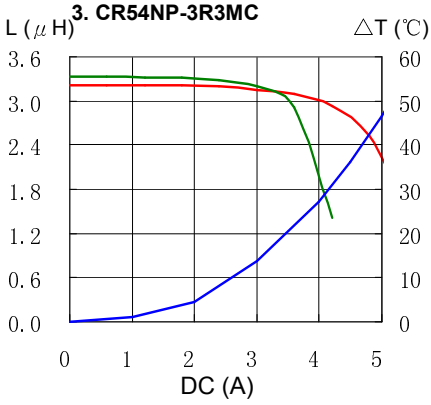
1. CR54NP-2R2MC



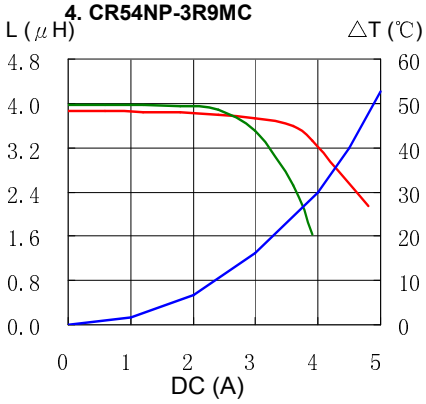
2. CR54NP-2R7MC



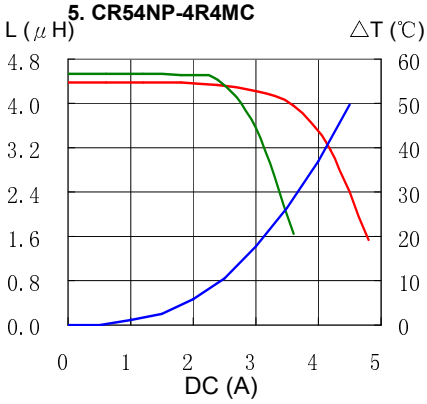
3. CR54NP-3R3MC



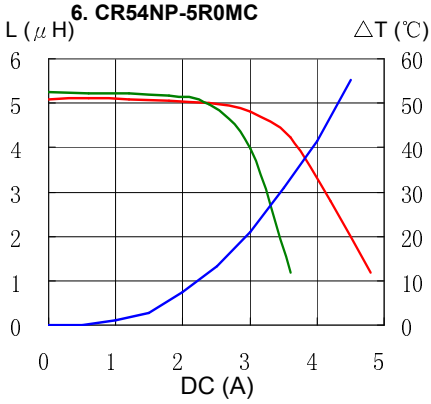
4. CR54NP-3R9MC



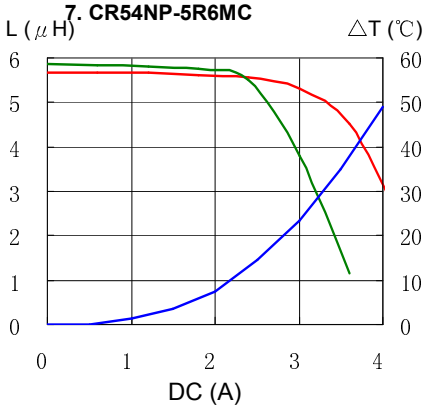
5. CR54NP-4R4MC



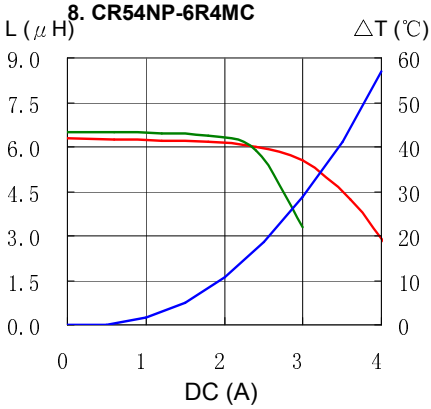
6. CR54NP-5R0MC



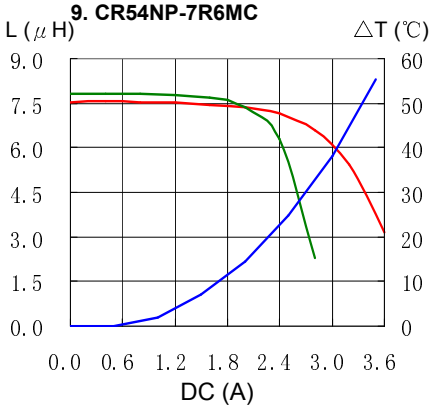
7. CR54NP-5R6MC



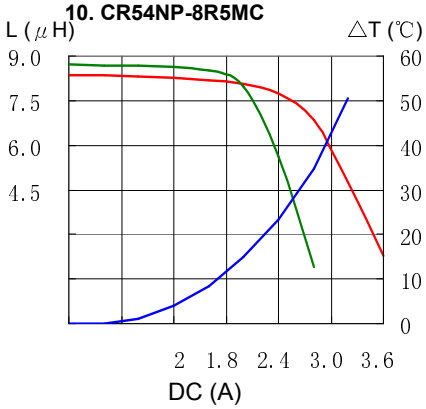
8. CR54NP-6R4MC



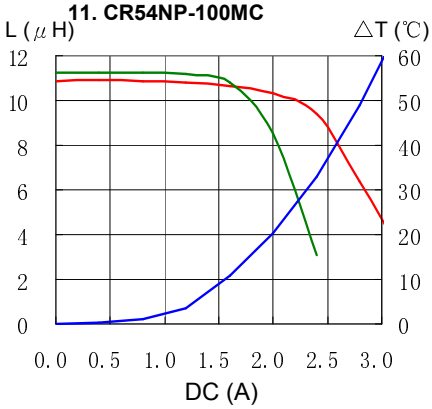
9. CR54NP-7R6MC



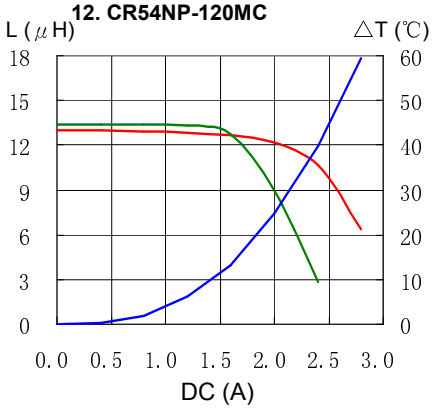
10. CR54NP-8R5MC



11. CR54NP-100MC



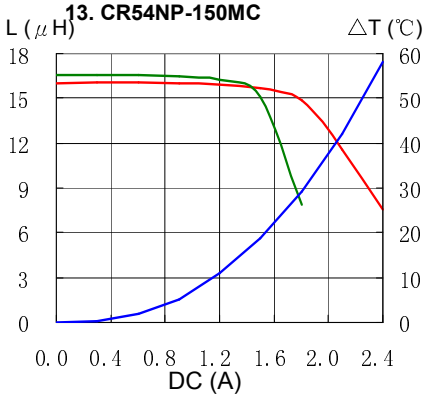
12. CR54NP-120MC



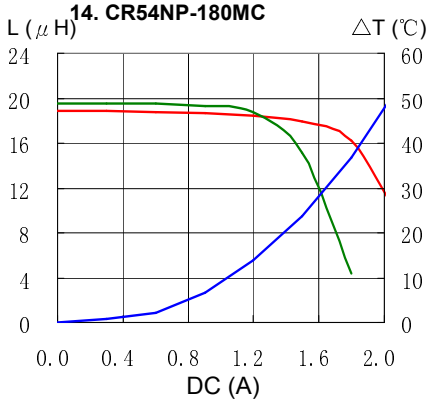
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

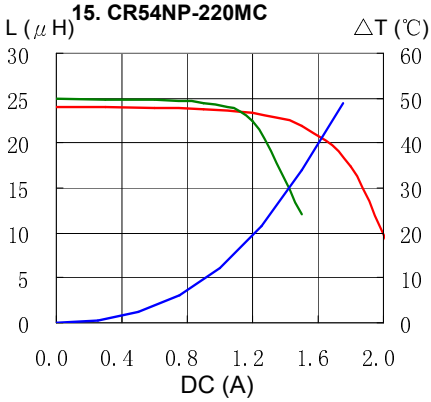
13. CR54NP-150MC



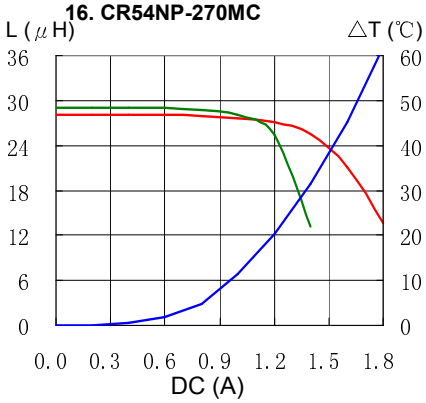
14. CR54NP-180MC



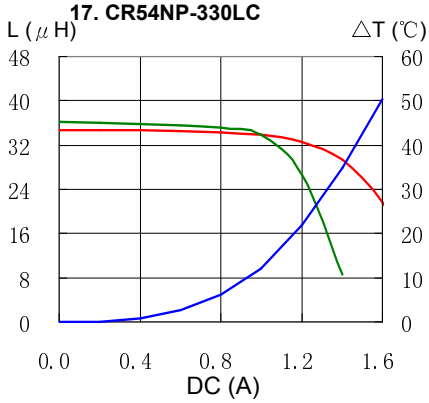
15. CR54NP-220MC



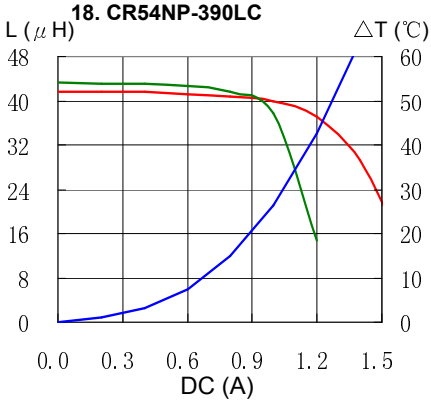
16. CR54NP-270MC



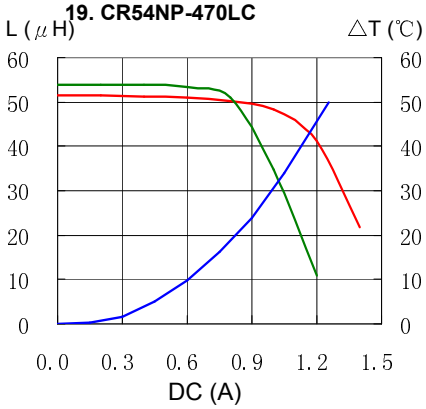
17. CR54NP-330LC



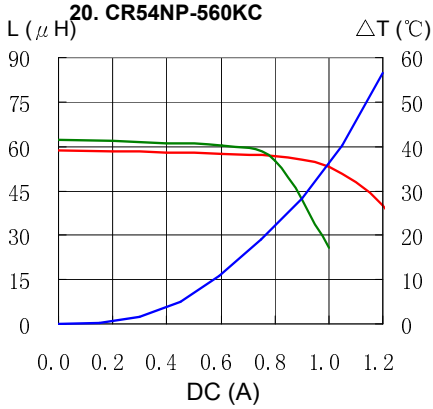
18. CR54NP-390LC



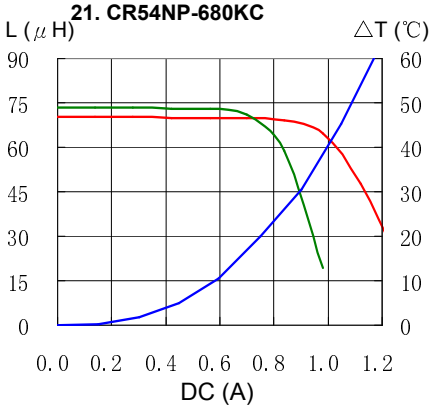
19. CR54NP-470LC



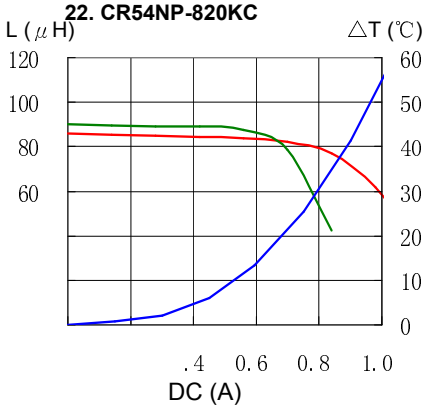
20. CR54NP-560KC



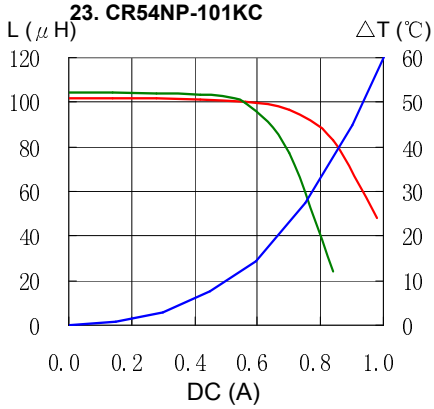
21. CR54NP-680KC



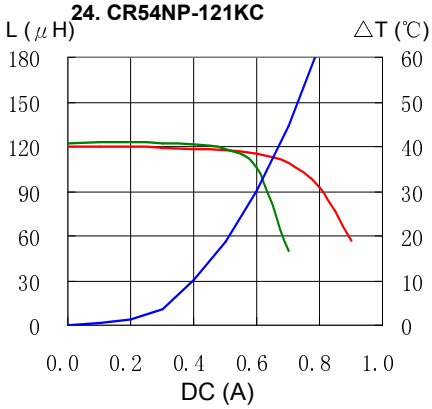
22. CR54NP-820KC



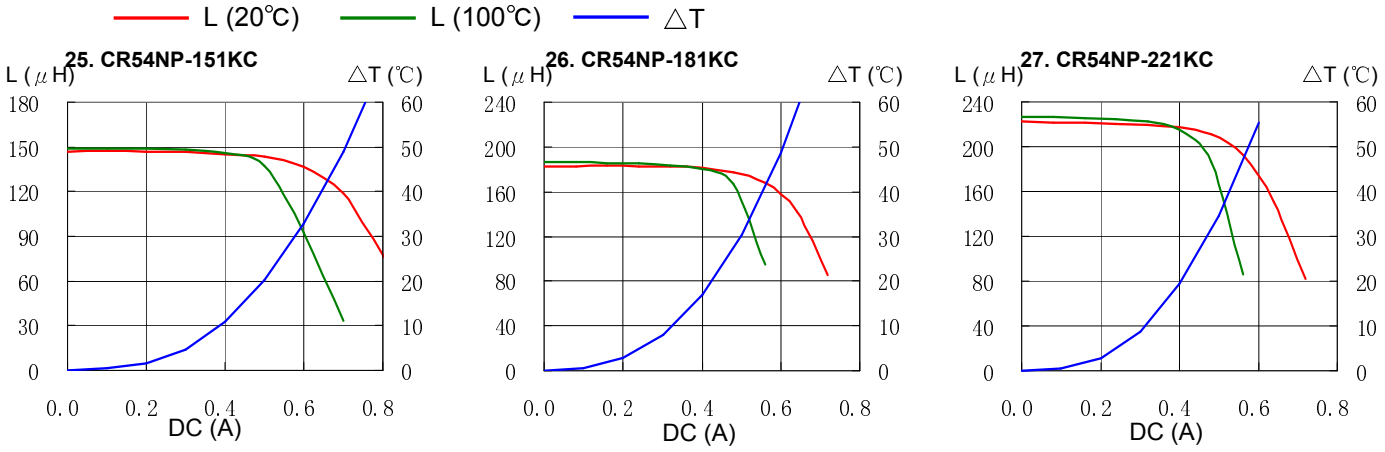
23. CR54NP-101KC



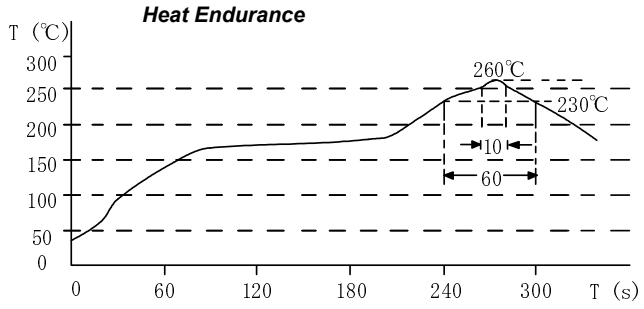
24. CR54NP-121KC

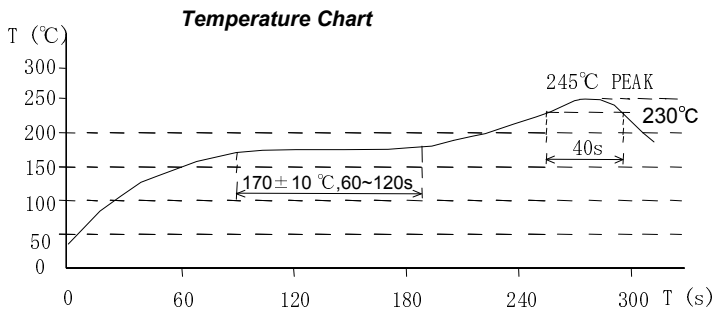


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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