SMD Power Inductor
CD105B

RoHS

Halogen Free

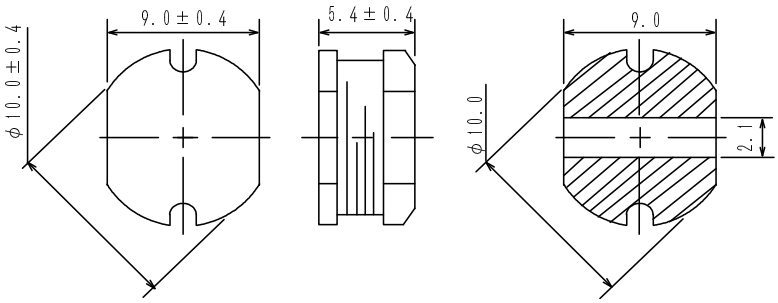
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 10.4 × 9.4 × 5.8mm Max.
- Product weight:1.3 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data
- Operating temperature range: -40℃～+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

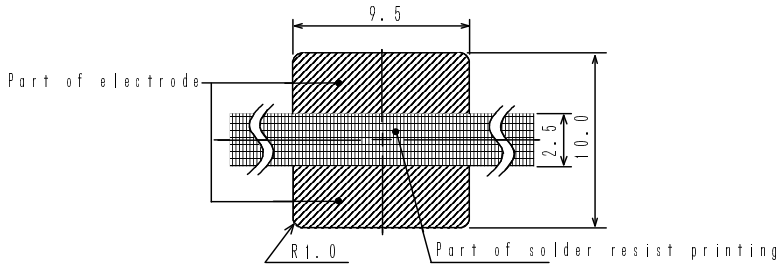
Packaging
- Carrier tape and reel packaging.
- 12.9"diameter reel
- 500pcs per reel

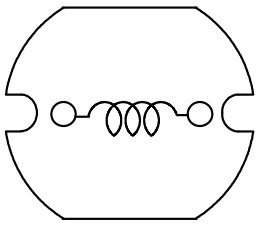
Applications
- Ideally used in PDA,MP3,DSC/DVC,HDD, Portable DVD, etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]





Revised: 17-Dec-12

Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R. (Ω) [Max.] (at 20℃)	Rated Current (A) ※2	
			(at 20℃)	(at 105℃)
CD105BNP-100MC	10±20%	0.06	2.60	1.92
CD105BNP-120MC	12±20%	0.07	2.45	1.44
CD105BNP-150MC	15±20%	0.08	2.27	1.36
CD105BNP-180MC	18±20%	0.09	2.15	1.29
CD105BNP-220MC	22±20%	0.10	1.95	1.24
CD105BNP-270MC	27±20%	0.11	1.76	1.20
CD105BNP-330MC	33±20%	0.12	1.50	1.04
CD105BNP-390MC	39±20%	0.14	1.37	1.00
CD105BNP-470KC	47±10%	0.17	1.28	0.88
CD105BNP-560KC	56±10%	0.19	1.17	0.80
CD105BNP-680KC	68±10%	0.22	1.11	0.71
CD105BNP-820KC	82±10%	0.25	1.00	0.66
CD105BNP-101KC	100±10%	0.35	0.97	0.63
CD105BNP-121KC	120±10%	0.40	0.89	0.53
CD105BNP-151KC	150±10%	0.47	0.78	0.47
CD105BNP-181KC	180±10%	0.63	0.72	0.43
CD105BNP-221KC	220±10%	0.73	0.66	0.40
CD105BNP-271KC	270±10%	0.97	0.57	0.35
CD105BNP-331KC	330±10%	1.15	0.52	0.33
CD105BNP-391KC	390±10%	1.30	0.48	0.32
CD105BNP-471KC	470±10%	1.48	0.42	0.30
CD105BNP-561KC	560±10%	1.90	0.33	0.29
CD105BNP-681KC	680±10%	2.25	0.28	0.24
CD105BNP-821KC	820±10%	2.55	0.24	0.22

※1: Inductance measuring frequency: 10μH ～ 82μH ; at 2.52 MHz.
100μH ～820μH ; at 1 kHz.

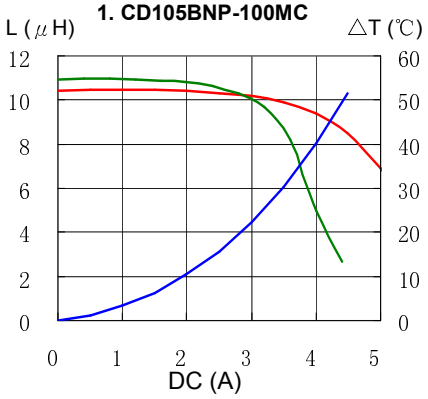
※2: Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when △t=40℃, whichever is lower (Ta=20℃).

SMD Power Inductor
CD105B

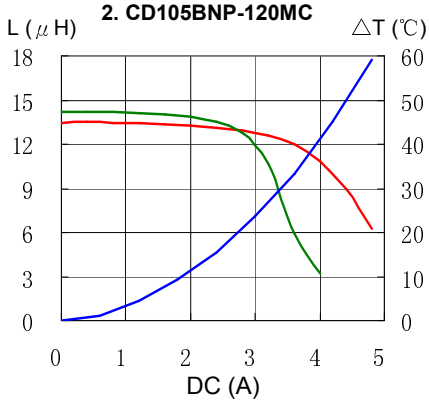
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

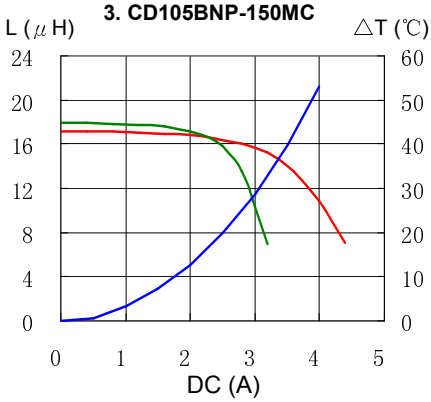
1. CD105BNP-100MC



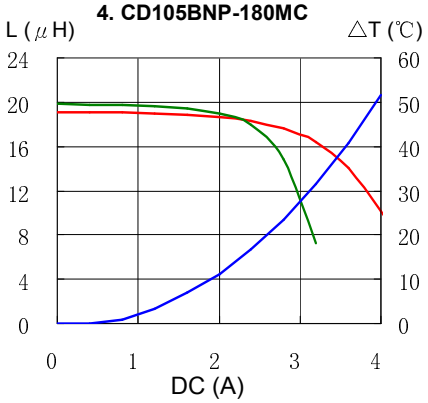
2. CD105BNP-120MC



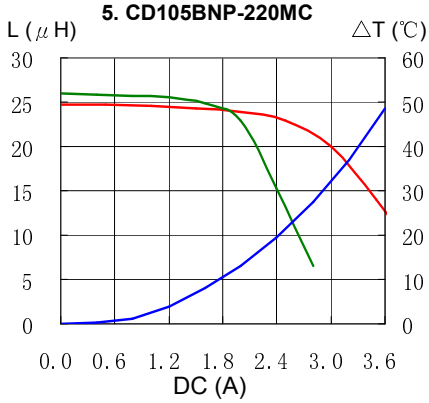
3. CD105BNP-150MC



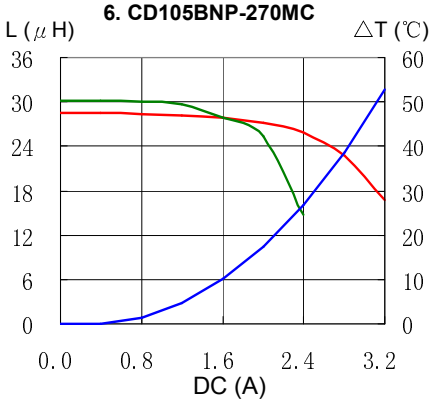
4. CD105BNP-180MC



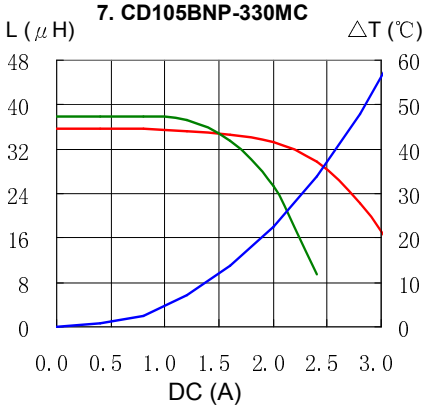
5. CD105BNP-220MC



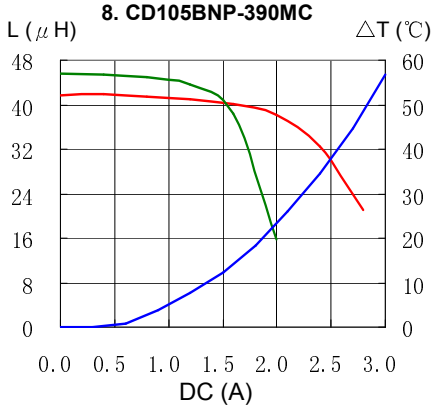
6. CD105BNP-270MC



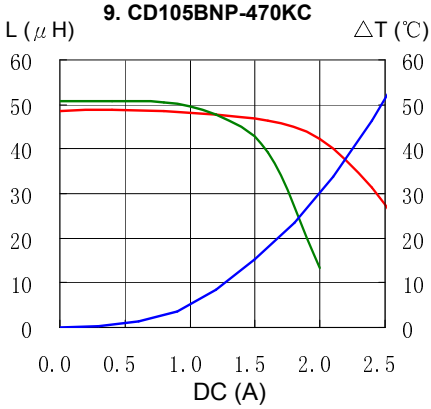
7. CD105BNP-330MC



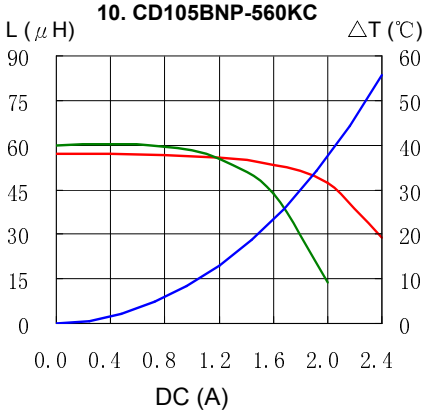
8. CD105BNP-390MC



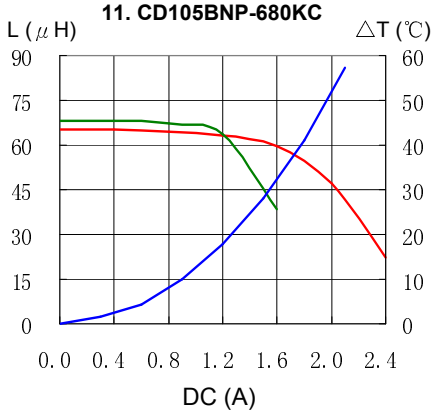
9. CD105BNP-470KC



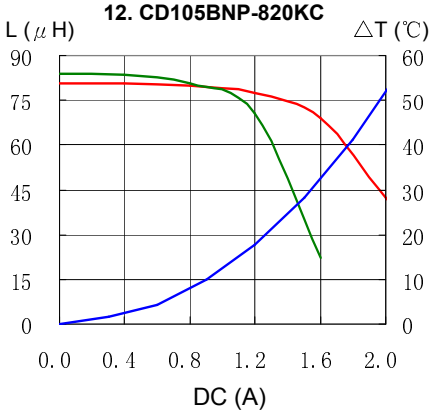
10. CD105BNP-560KC



11. CD105BNP-680KC



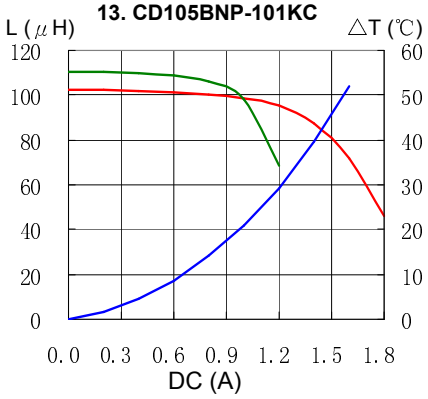
12. CD105BNP-820KC



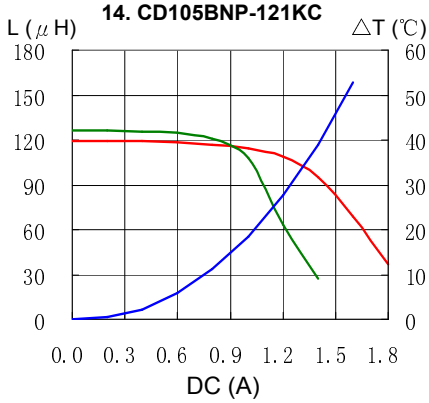
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

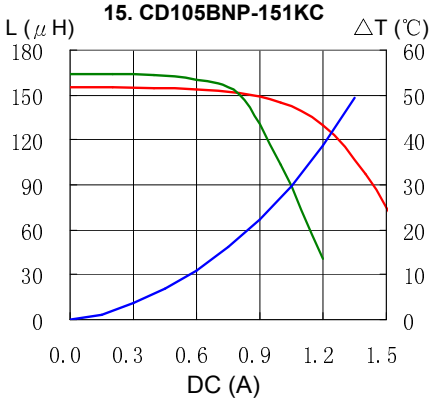
13. CD105BNP-101KC



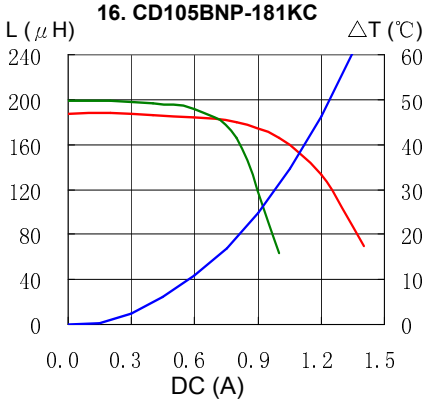
14. CD105BNP-121KC



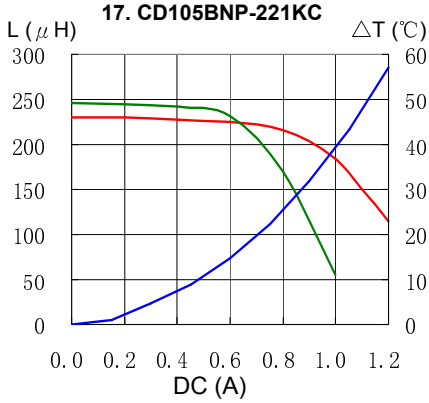
15. CD105BNP-151KC



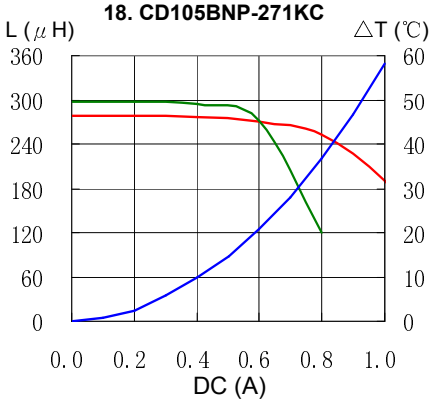
16. CD105BNP-181KC



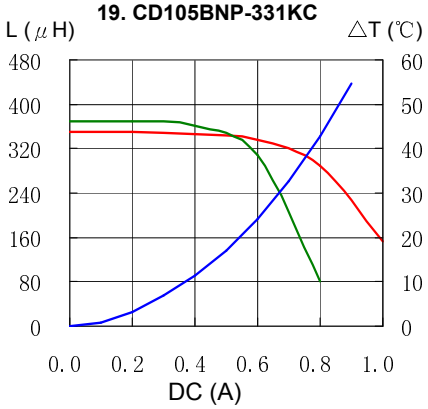
17. CD105BNP-221KC



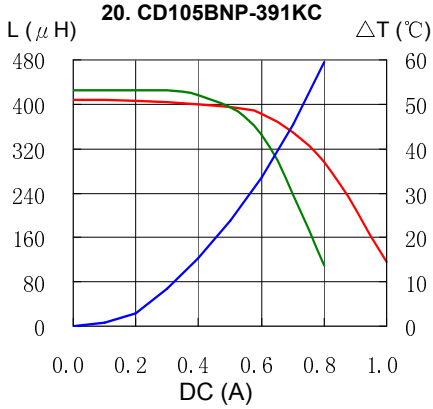
18. CD105BNP-271KC



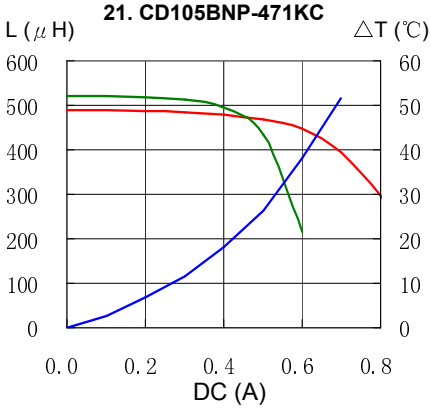
19. CD105BNP-331KC



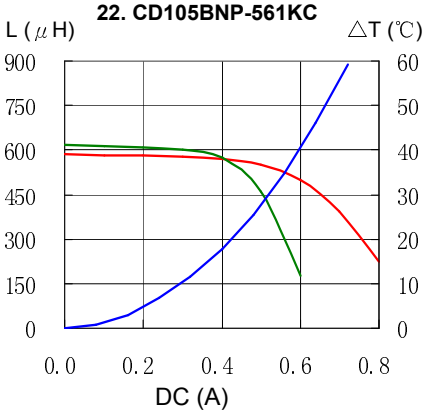
20. CD105BNP-391KC



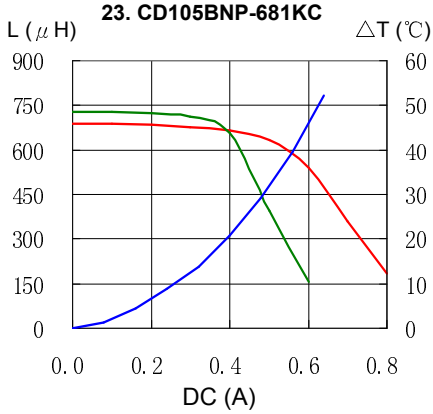
21. CD105BNP-471KC



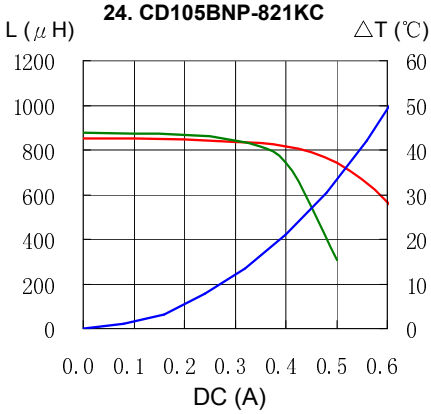
22. CD105BNP-561KC



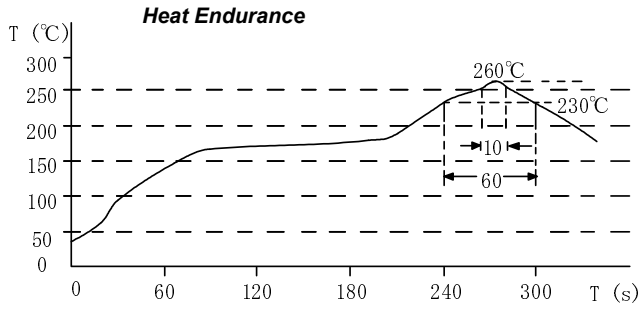
23. CD105BNP-681KC

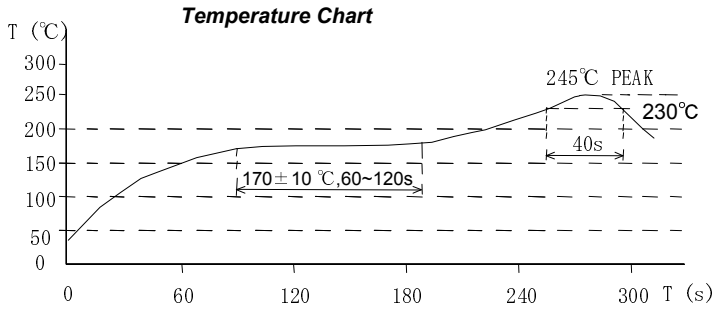


24. CD105BNP-821KC



Solder Reflow Condition





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