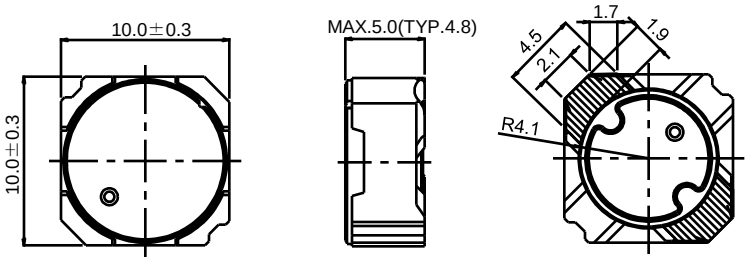
SMD Power Inductor
CDR10D48MN

RoHS

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.3 × 10.3 × 5.0 mm Max.
- Product weight: 1.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

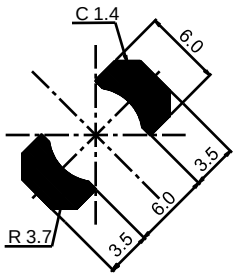
Dimension - [mm]

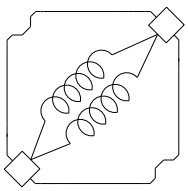


Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

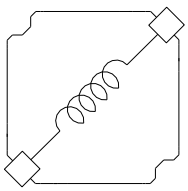
Packaging
- Carrier tape and reel packaging.
- 13.0"diameter reel
- 500pcs per reel

Land pattern and Schematics - [mm]





(2.4μH～10μH)



(12μH～120μH)

Applications
- Ideally used in LCD Driver ,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

Revised: 6-Jan-17

Electrical Characteristics

PART NAME	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) MAX.. (Typ.) (at 20℃)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at20℃)	(at105℃)	
CDR10D48MNNP－2R4NC	2R4	2.4μH±25%	12.5(10.0)	11.5	9.2	9.6
CDR10D48MNNP－3R6NC	3R6	3.6μH±25%	15.0(12.0)	9.4	7.7	8.2
CDR10D48MNNP－5R0NC	5R0	5.0μH±25%	16.9(13.5)	8.0	6.5	6.8
CDR10D48MNNP－6R6NC	6R6	6.6μH±25%	22.5(18.0)	7.1	5.7	5.7
CDR10D48MNNP－8R5NC	8R5	8.5μH±25%	28.8(23.0)	6.3	5.1	4.8
CDR10D48MNNP－100NC	100	10μH±25%	40.0(32.0)	5.5	4.4	4.3
CDR10D48MNNP－120NC	120	12μH±25%	42.5(34.0)	4.9	4.1	3.6
CDR10D48MNNP－150NC	150	15μH±25%	46.0(37.0)	4.5	3.6	3.4
CDR10D48MNNP－180NC	180	18μH±25%	50.0(40.0)	4.1	3.4	3.2
CDR10D48MNNP－220NC	220	22μH±25%	56.0(45.0)	4.0	3.2	2.8
CDR10D48MNNP－270NC	270	27μH±25%	63.0(50.0)	3.6	2.9	2.7
CDR10D48MNNP－330NC	330	33μH±25%	90.0(70.0)	3.1	2.5	2.1
CDR10D48MNNP－390NC	390	39μH±25%	105.0(85.0)	3.0	2.4	1.9
CDR10D48MNNP－470NC	470	47μH±25%	120.0(95.0)	2.6	2.1	1.8
CDR10D48MNNP－560NC	560	56μH±25%	150.0(120)	2.4	2.0	1.6
CDR10D48MNNP－680NC	680	68μH±25%	175.0(140)	2.1	1.8	1.5
CDR10D48MNNP－820NC	820	82μH±25%	220.0(175)	2.0	1.6	1.3
CDR10D48MNNP－101NC	101	100μH±25%	275.0(220)	1.8	1.5	1.1
CDR10D48MNNP－121NC	121	120μH±25%	312.5(250)	1.6	1.3	1.0

※1. Measuring condition: at 100kHz.

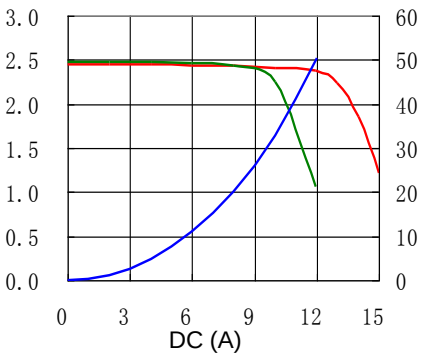
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

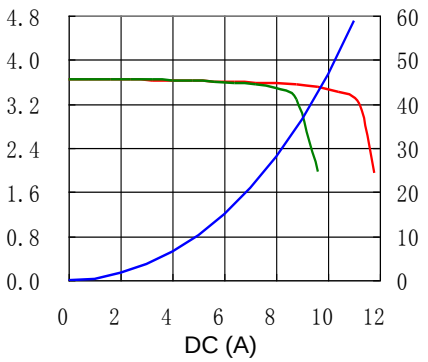
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

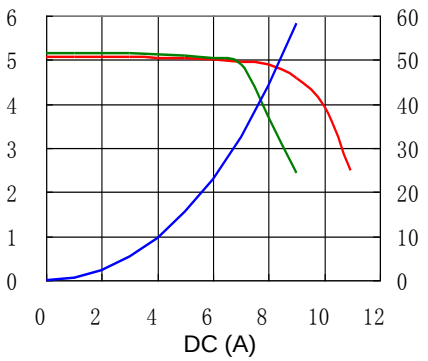
1. CDR10D48MNNP-2R4NC



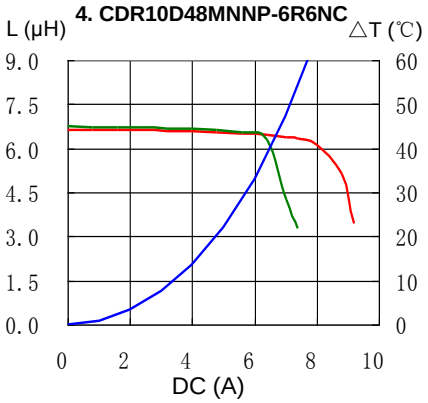
2. CDR10D48MNNP-3R6NC



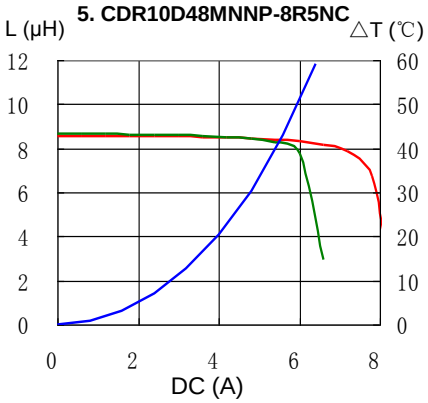
3. CDR10D48MNNP-5R0NC



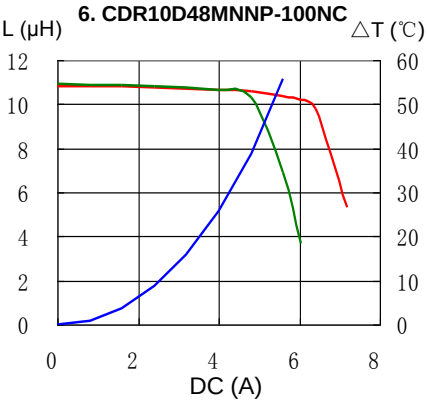
4. CDR10D48MNNP-6R6NC



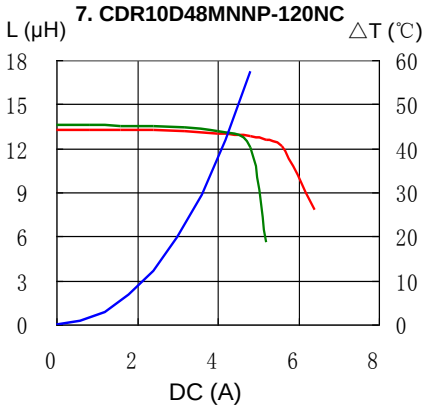
5. CDR10D48MNNP-8R5NC



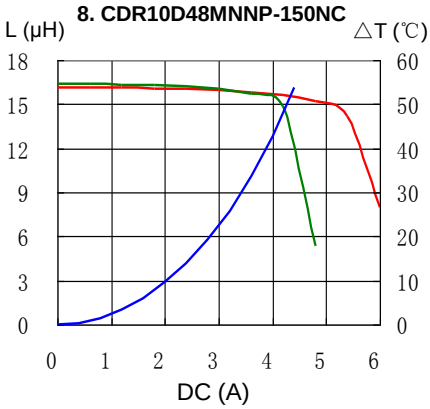
6. CDR10D48MNNP-100NC



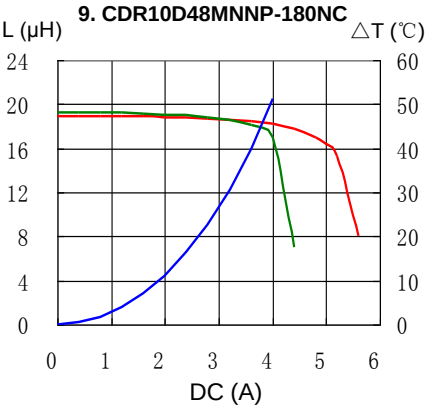
7. CDR10D48MNNP-120NC



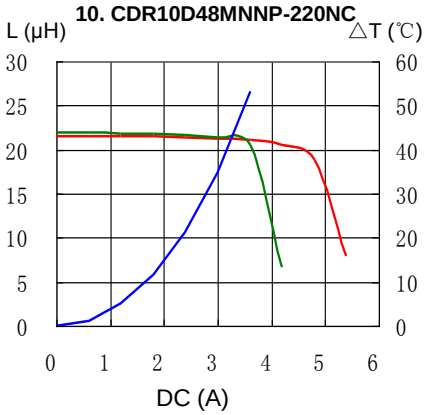
8. CDR10D48MNNP-150NC



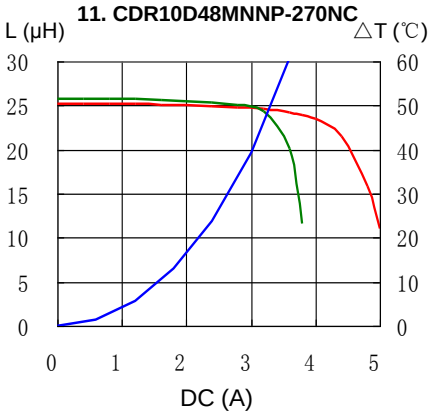
9. CDR10D48MNNP-180NC



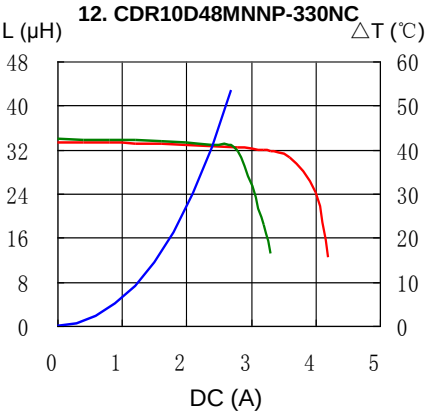
10. CDR10D48MNNP-220NC



11. CDR10D48MNNP-270NC



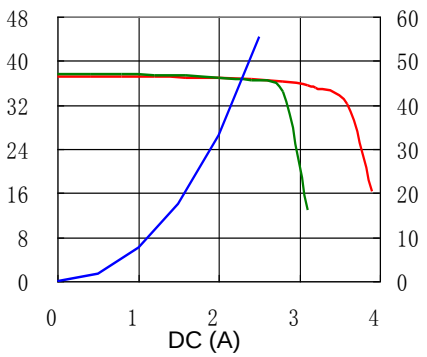
12. CDR10D48MNNP-330NC



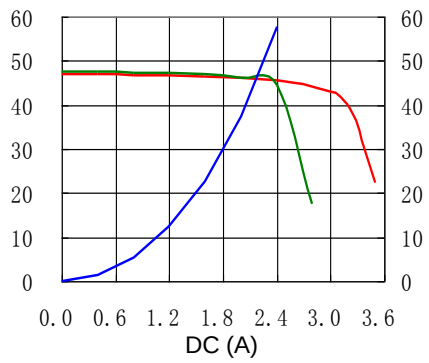
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

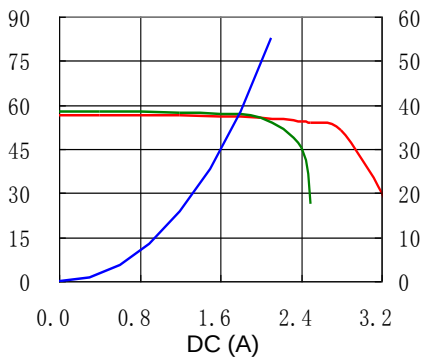
13. CDR10D48MNNP-390NC



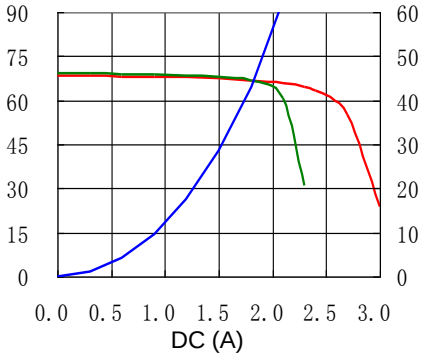
14. CDR10D48MNNP-470NC



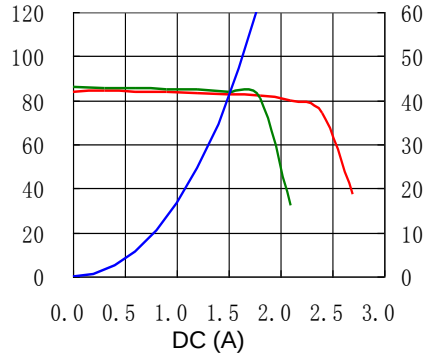
15. CDR10D48MNNP-560NC



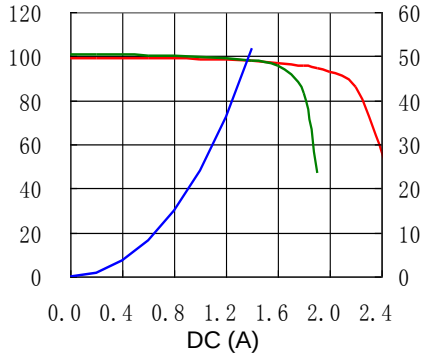
16. CDR10D48MNNP-680NC



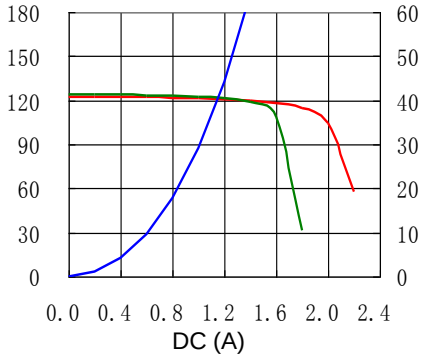
17. CDR10D48MNNP-820NC



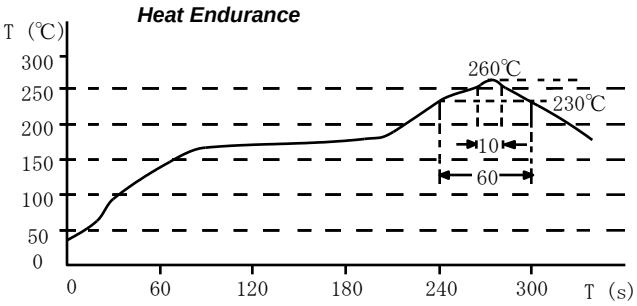
18. CDR10D48MNNP-101NC

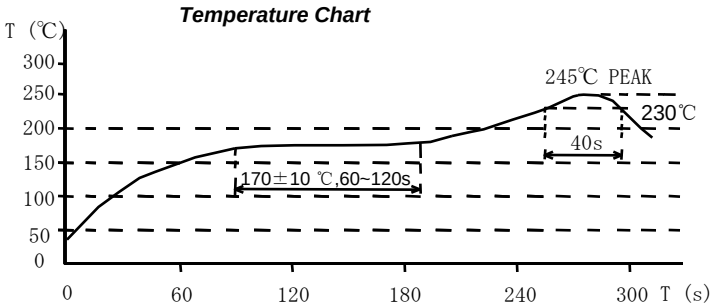


19. CDR10D48MNNP-121NC



Solder Reflow Condition





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