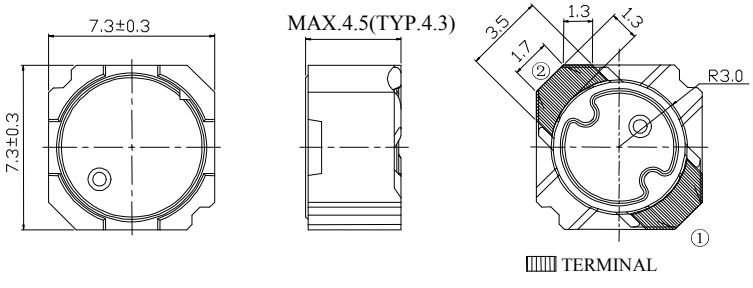
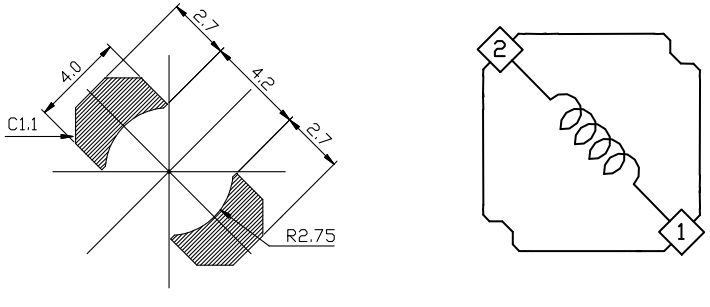
SMD Power Inductor
CDR7D43MN

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.6 × 7.6 × 4.5 mm Max.
- Product weight: 0.84g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [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
- 1000pcs per reel

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

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Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R .(mΩ) MAX. (Typ.) (at 20℃)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3
				(at20℃)	(at105℃)	
CDR7D43MNNP-3R7NC	3R7	3.7μH±25%	18.9(15.1)	6.95	5.60	4.3
CDR7D43MNNP-4R7NC	4R7	4.7μH±25%	21.4(17.1)	6.20	4.85	4.0
CDR7D43MNNP-5R8NC	5R8	5.8μH±25%	24.0(19.1)	5.60	4.20	3.7
CDR7D43MNNP-7R2NC	7R2	7.2μH±25%	33.9(27.2)	4.95	3.90	3.0
CDR7D43MNNP-100NC	100	10μH±25%	48.4(38.7)	4.10	3.25	2.5
CDR7D43MNNP-120NC	120	12μH±25%	56.8(45.4)	3.90	3.05	2.1
CDR7D43MNNP-150NC	150	15μH±25%	80.4(64.3)	3.35	2.75	1.8
CDR7D43MNNP-180NC	180	18μH±25%	93.6(74.9)	3.05	2.40	1.6
CDR7D43MNNP-220NC	220	22μH±25%	106.4(85.1)	2.85	2.20	1.5
CDR7D43MNNP-270NC	270	27μH±25%	143.6(114.9)	2.50	2.00	1.25
CDR7D43MNNP-330NC	330	33μH±25%	160.0(127.7)	2.30	1.75	1.15
CDR7D43MNNP-390NC	390	39μH±25%	175.0(140.0)	2.10	1.65	1.10
CDR7D43MNNP-470NC	470	47μH±25%	247.0(197.6)	1.90	1.45	0.90
CDR7D43MNNP-560NC	560	56μH±25%	266.3(213.0)	1.75	1.35	0.85
CDR7D43MNNP-680NC	680	68μH±25%	363.8(291.1)	1.55	1.25	0.75
CDR7D43MNNP-820NC	820	82μH±25%	401.4(321.1)	1.45	1.15	0.65
CDR7D43MNNP-101NC	101	100μH±25%	455.8(364.6)	1.25	1.05	0.55

※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℃).

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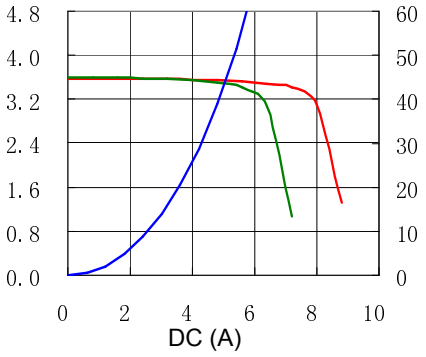
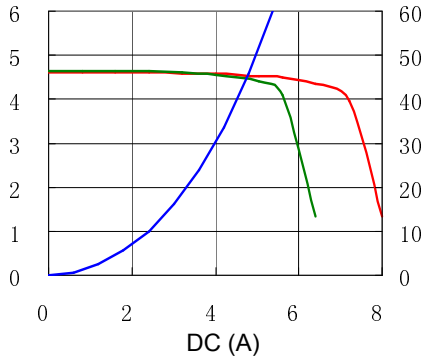
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

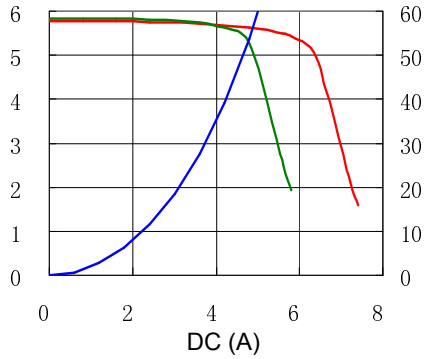
1. CDR7D43MNNP-3R7NC



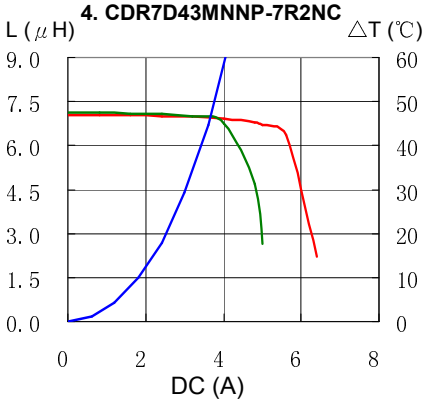
2. CDR7D43MNNP-4R7NC



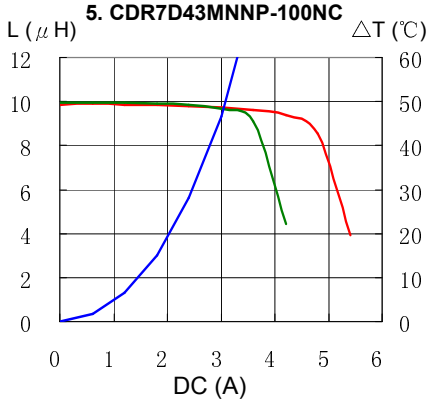
3. CDR7D43MNNP-5R8NC



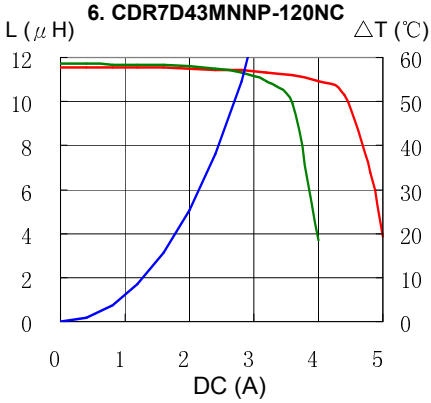
4. CDR7D43MNNP-7R2NC



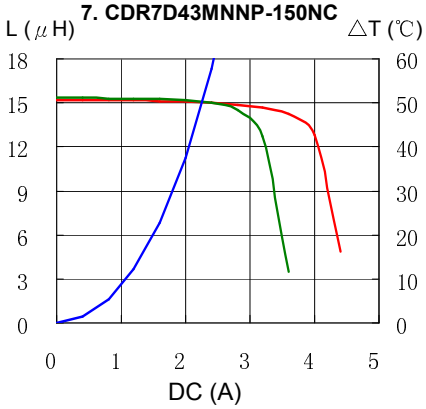
5. CDR7D43MNNP-100NC



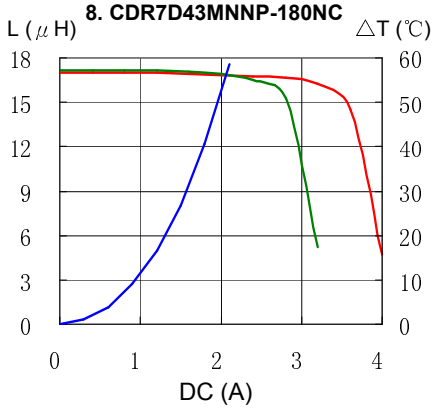
6. CDR7D43MNNP-120NC



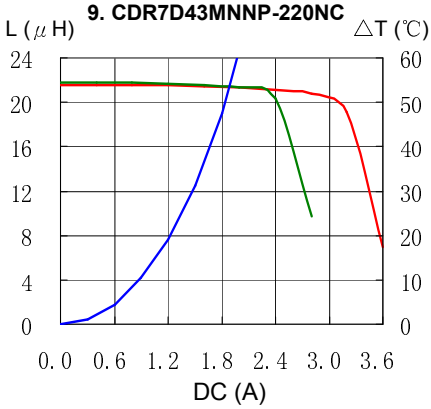
7. CDR7D43MNNP-150NC



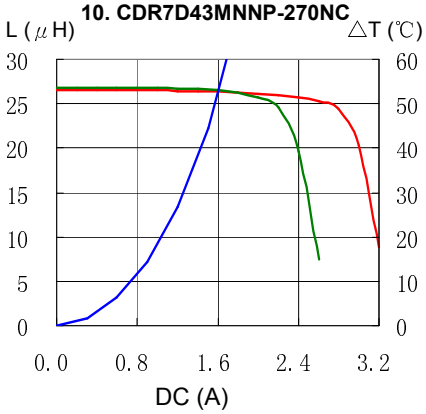
8. CDR7D43MNNP-180NC



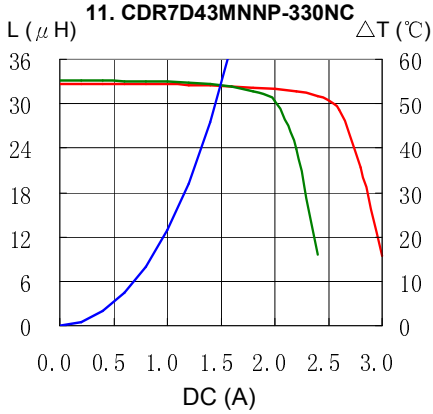
9. CDR7D43MNNP-220NC



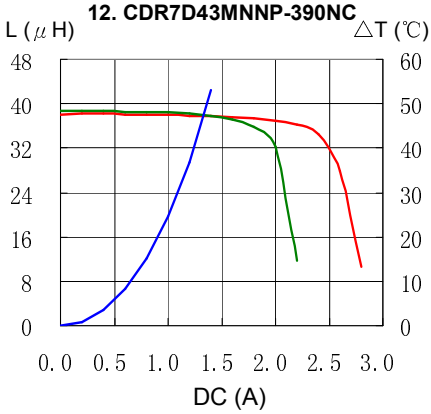
10. CDR7D43MNNP-270NC



11. CDR7D43MNNP-330NC



12. CDR7D43MNNP-390NC



Revised: 7-Apr-16

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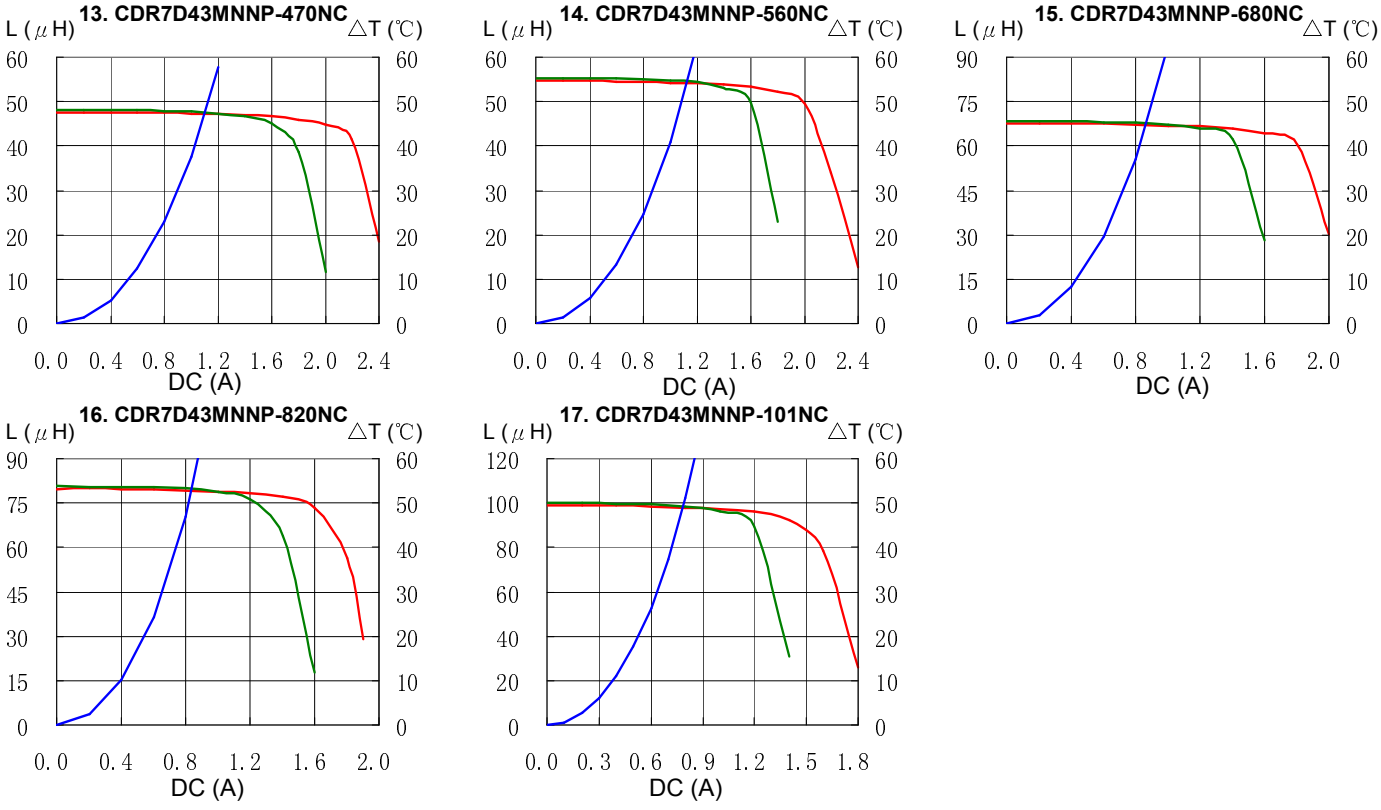
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T



Solder Reflow Condition