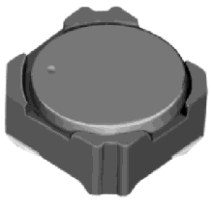
THE DATASHEET OF

CDR7D28MNNP-220NC

SMD Power Inductor
CDR7D28MN



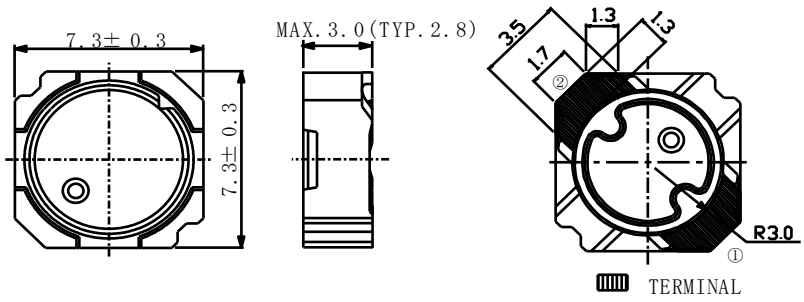
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.6 × 7.6 × 3.0 mm Max.
- Product weight: 0.46g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

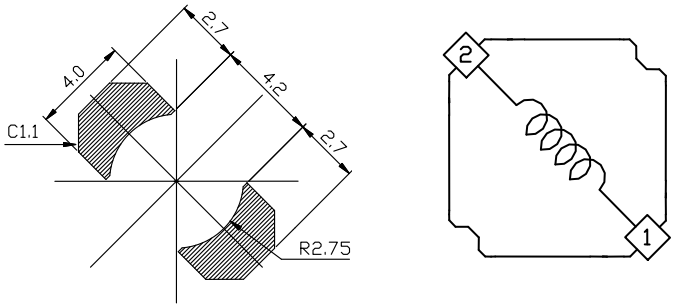
Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 1000pcs per reel

Applications
- Ideally used in LCD driver, DSC/DVC , Notebook PC or the other portable equipment

Dimension - [mm]



Land pattern and Schematics - [mm]



Revised: 6-Jan-17

Electrical Characteristics

Part Name	Stamp	Inductance (μH) ［Within］ ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current （A） ※2		Temperature rise current: （A） ※3
				(at20℃)	(at105℃)	
CDR7D28MNNP-1R2 NC	1R2	1.2μH±25%	20.5(16.4)	5.90	4.65	4.50
CDR7D28MNNP-2R0 NC	2R0	2.0μH±25%	23.8(19)	4.55	3.65	3.95
CDR7D28MNNP-2R7 NC	2R7	2.7μH±25%	27.5(22)	4.10	3.30	3.70
CDR7D28MNNP-3R6 NC	3R6	3.6μH±25%	32.5(26)	3.55	2.90	3.45
CDR7D28MNNP-4R6 NC	4R6	4.6μH±25%	37.5(30)	3.30	2.65	3.20
CDR7D28MNNP-6R8 NC	6R8	6.8μH±25%	46.3(37)	2.90	2.45	2.75
CDR7D28MNNP-8R0 NC	8R0	8.0μH±25%	50.0(40)	2.60	2.10	2.60
CDR7D28MNNP-100 NC	100	10μH±25%	53.8(48)	2.40	1.95	2.50
CDR7D28MNNP-150 NC	150	15μH±25%	81.3(65)	2.10	1.65	2.00
CDR7D28MNNP-220 NC	220	22μH±25%	120.0(96)	1.65	1.35	1.60
CDR7D28MNNP-330 NC	330	33μH±25%	196.3(157)	1.35	1.10	1.20
CDR7D28MNNP-470 NC	470	47μH±25%	275.0(220)	1.05	0.85	1.00
CDR7D28MNNP-680 NC	680	68μH±25%	425.0(340)	0.90	0.70	0.78
CDR7D28MNNP-101 NC	101	100μH±25%	655.0(524)	0.75	0.60	0.65
CDR7D28MNNP-151 NC	151	150μH±25%	950.0(760)	0.60	0.45	0.52
CDR7D28MNNP-221 NC	221	220μH±25%	1320(1100)	0.50	0.40	0.40
CDR7D28MNNP-331 NC	331	330μH±25%	2184(1820)	0.35	0.30	0.31
CDR7D28MNNP-471 NC	471	470μH±25%	2652(2210)	0.30	0.25	0.28

※1.Inductance measuring condition: at 100kHz.

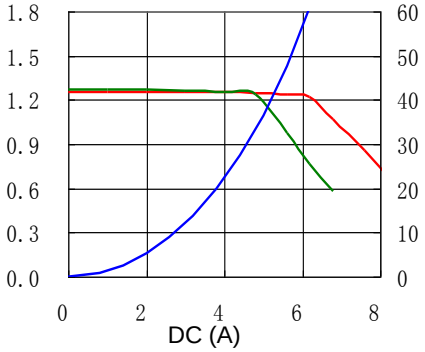
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

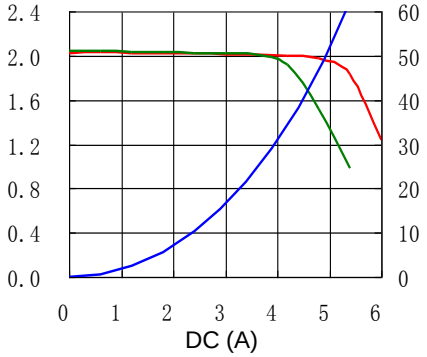
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

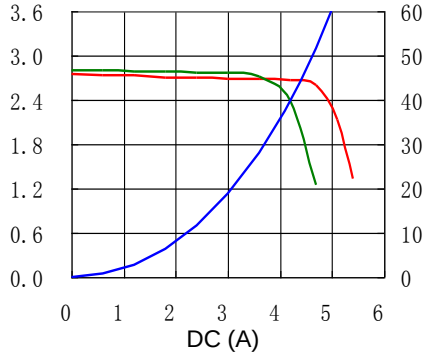
1. CDR7D28MNNP-1R2NC



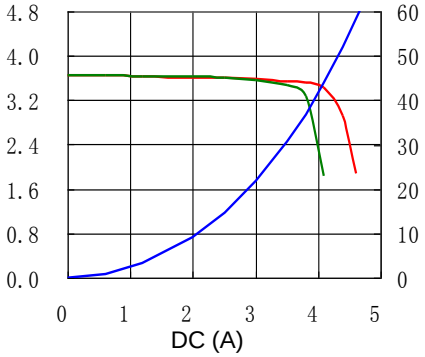
2. CDR7D28MNNP-2R0NC



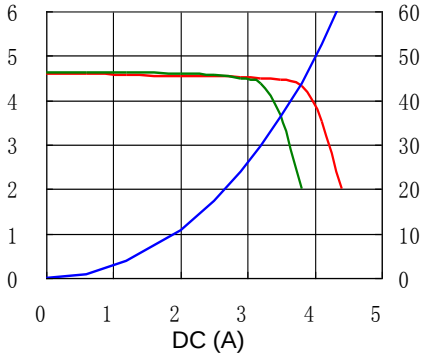
3. CDR7D28MNNP-2R7NC



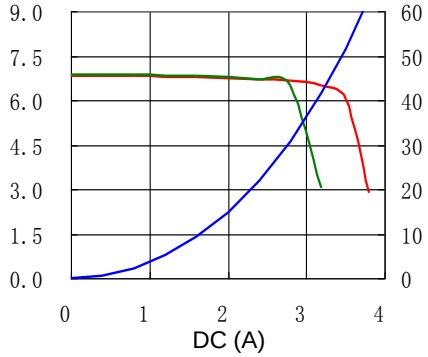
4. CDR7D28MNNP-3R6NC



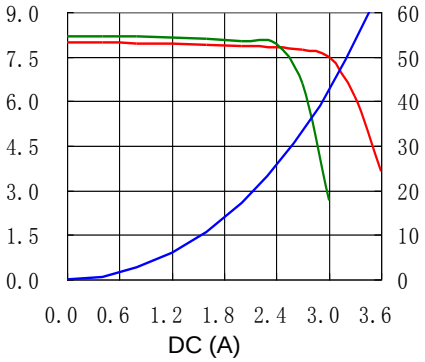
5. CDR7D28MNNP-4R6NC



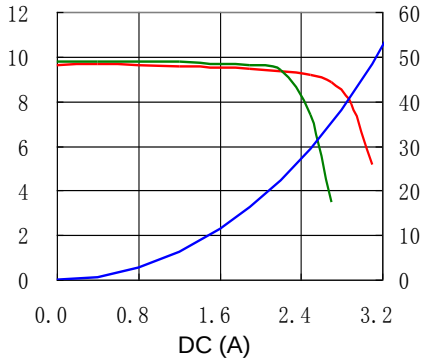
6. CDR7D28MNNP-6R8NC



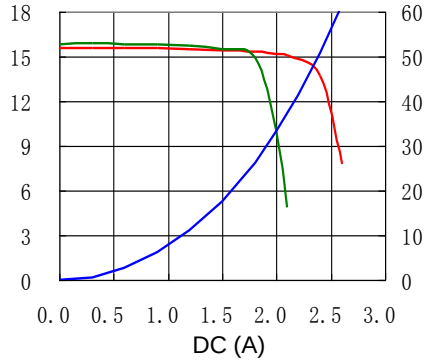
7. CDR7D28MNNP-8R0NC



8. CDR7D28MNNP-100NC



9. CDR7D28MNNP-150NC



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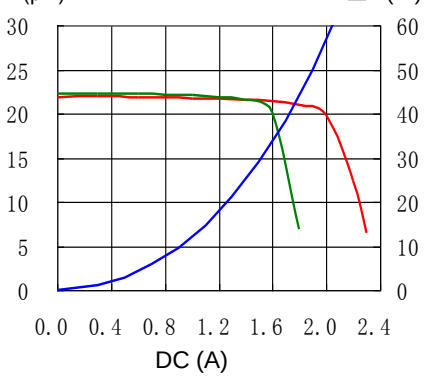
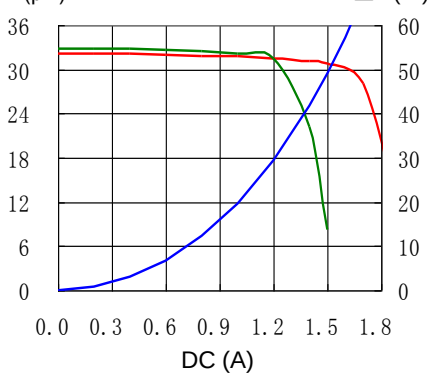
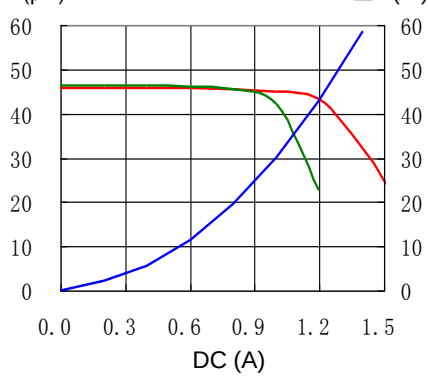


11. CDR7D28MNNP-330NC



12. CDR7D28MNNP-470NC



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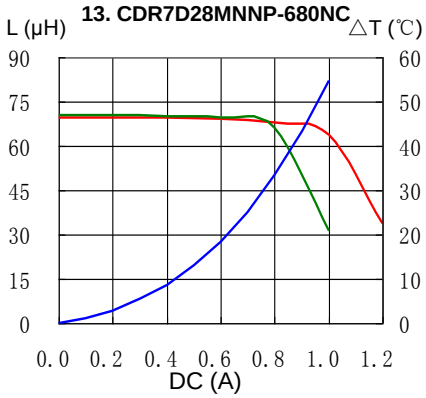
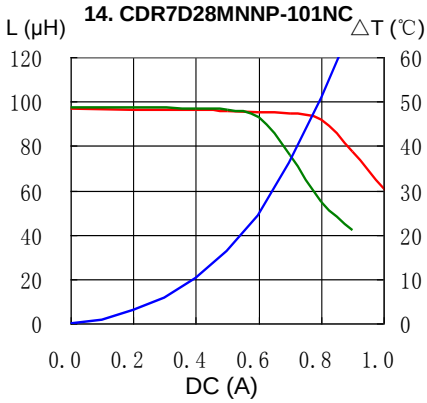
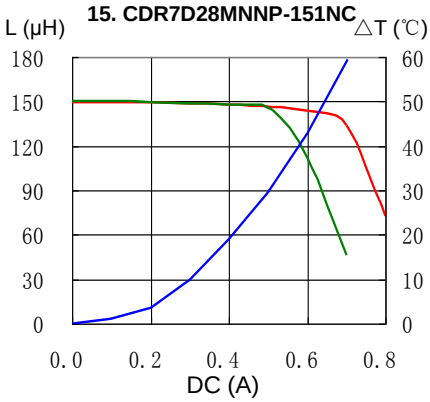
CDR7D28MN

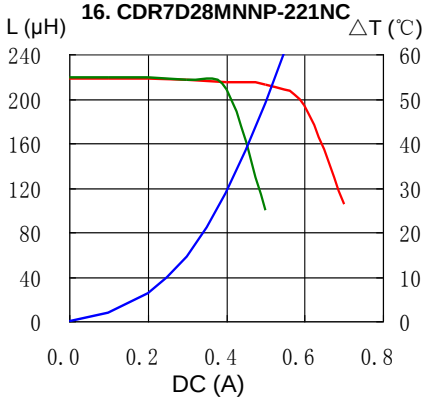
Saturation Current & Temperature Rise Graph

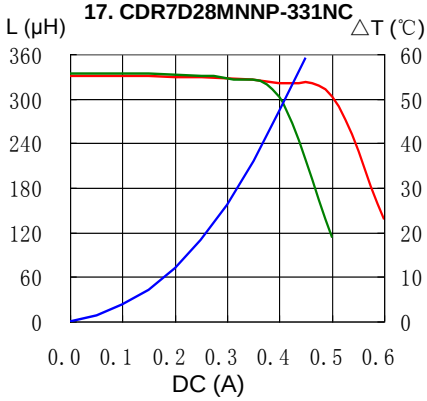
L (20℃) L (100℃) △T

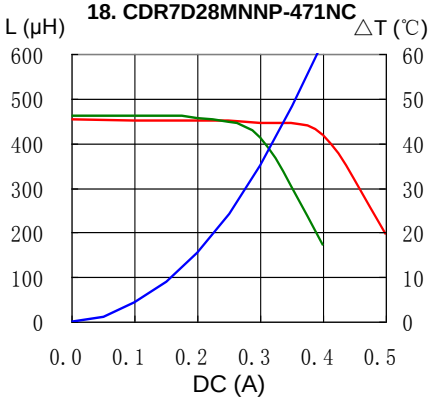




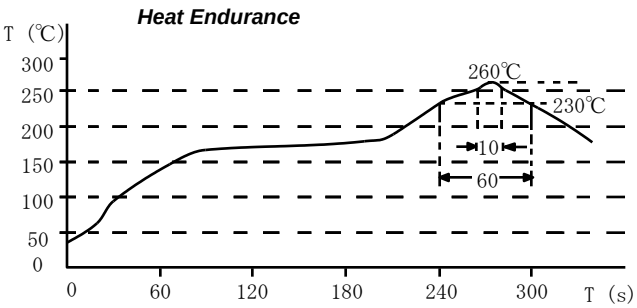


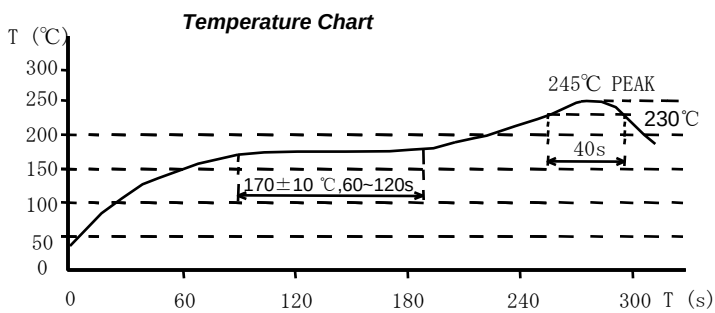






Solder Reflow Condition





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