SMD Power Inductor

CDRH40D28

RoHS Compliance
Cd: Max. 0.01wt%
Others: Max. 0.1wt%

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 3.0 mm Max.
- Product weight: 0.2 g (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.

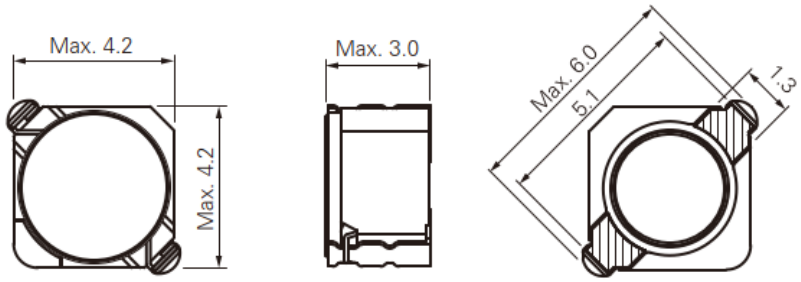
Packaging

- Carrier tape and reel packaging
- 7.0"diameter reel
- 500pcs per reel

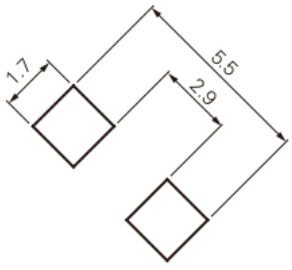
Applications

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

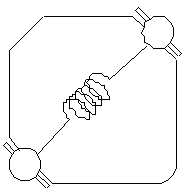
Dimension - [mm]



Land patterns - [mm]



Schematics



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Electrical Characteristics

Part No.	Inductance (μH) [within]※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) (Typ.) ※3
			at 20℃	at 105℃	
CDRH40D28NP-1R5NC	1.5 ± 30%	42.0(33.6)	2.90 (3.57)	2.30 (2.88)	(2.40)
CDRH40D28NP-2R2NC	2.2 ± 30%	47.0(37.6)	2.20 (2.97)	1.90 (2.38)	(2.10)
CDRH40D28NP-2R7NC	2.7 ± 30%	52.0(41.2)	2.10 (2.74)	1.80 (2.25)	(2.00)
CDRH40D28NP-3R3NC	3.3 ± 30%	58.0(46.7)	1.90 (2.39)	1.60 (2.00)	(1.90)
CDRH40D28NP-4R7NC	4.7 ± 30%	63.0(50.0)	1.65 (2.02)	1.40 (1.75)	(1.75)
CDRH40D28NP-5R6NC	5.6 ± 30%	75.0(59.6)	1.50 (1.88)	1.20 (1.50)	(1.60)
CDRH40D28NP-6R8NC	6.8 ± 30%	80.0(64.0)	1.30 (1.63)	1.05 (1.31)	(1.55)
CDRH40D28NP-100PC	10 ± 25%	125(100)	1.10 (1.38)	0.90 (1.15)	(1.20)
CDRH40D28NP-120PC	12 ± 25%	151(121)	1.00 (1.25)	0.80 (1.00)	(1.10)
CDRH40D28NP-150PC	15 ± 25%	218(174)	0.90 (1.15)	0.75 (0.94)	(0.88)
CDRH40D28NP-180PC	18 ± 25%	231(185)	0.85 (1.06)	0.70 (0.88)	(0.83)
CDRH40D28NP-220PC	22 ± 25%	264(211)	0.80 (1.00)	0.65 (0.81)	(0.80)
CDRH40D28NP-330PC	33 ± 25%	420(336)	0.62 (0.78)	0.52 (0.65)	(0.55)
CDRH40D28NP-390PC	39 ± 25%	619(495)	0.60 (0.75)	0.50 (0.63)	(0.48)
CDRH40D28NP-470PC	47 ± 25%	685(548)	0.50 (0.63)	0.40(0.50)	(0.45)
CDRH40D28NP-560PC	56 ± 25%	755(604)	0.45 (0.56)	0.35 (0.44)	(0.43)
CDRH40D28NP-680PC	68 ± 25%	836(669)	0.42 (0.53)	0.32 (0.40)	(0.40)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its initial value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

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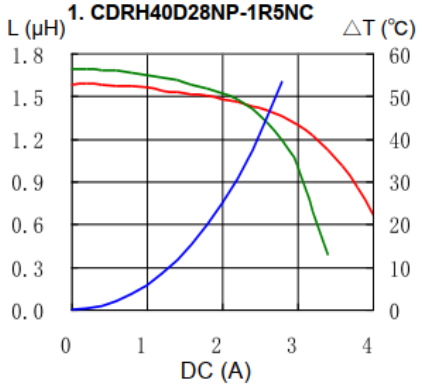
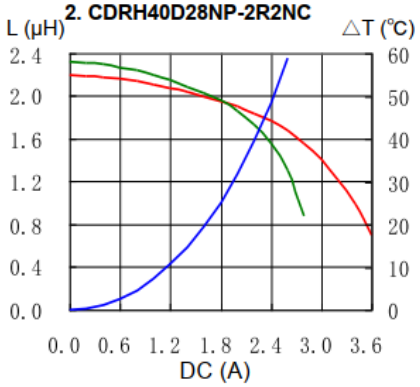
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

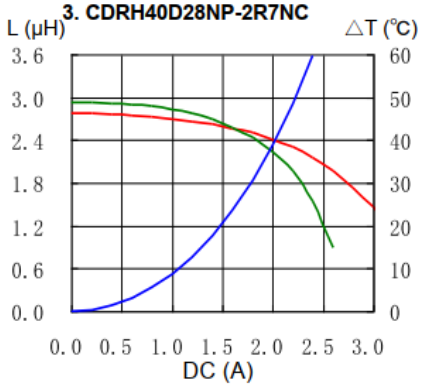
1. CDRH40D28NP-1R5NC



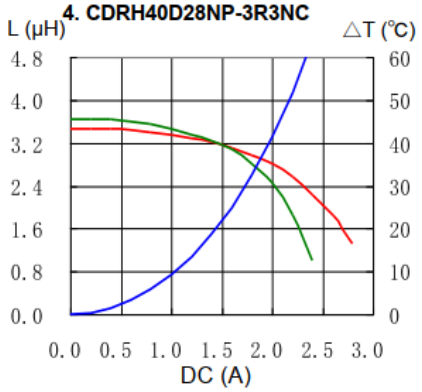
2. CDRH40D28NP-2R2NC



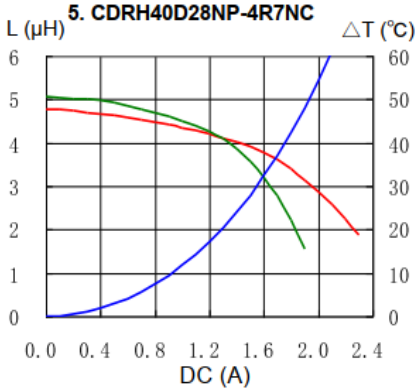
3. CDRH40D28NP-2R7NC



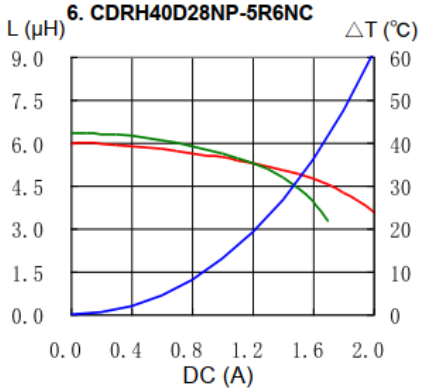
4. CDRH40D28NP-3R3NC



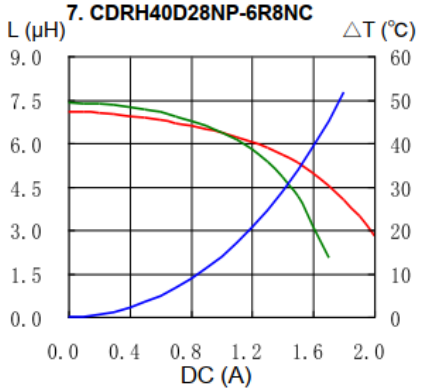
5. CDRH40D28NP-4R7NC



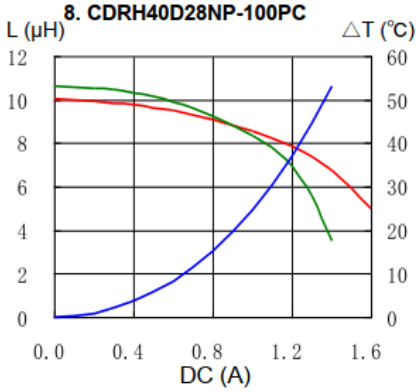
6. CDRH40D28NP-5R6NC



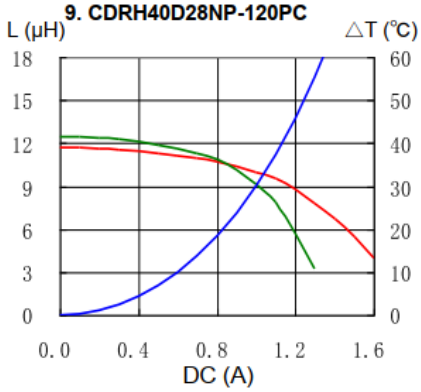
7. CDRH40D28NP-6R8NC



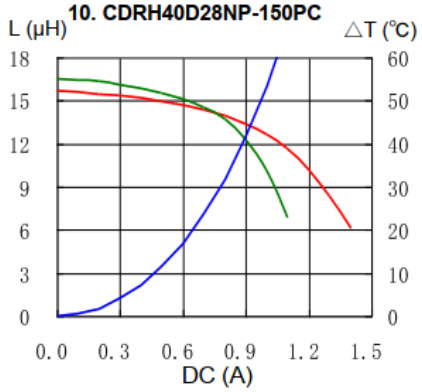
8. CDRH40D28NP-100PC



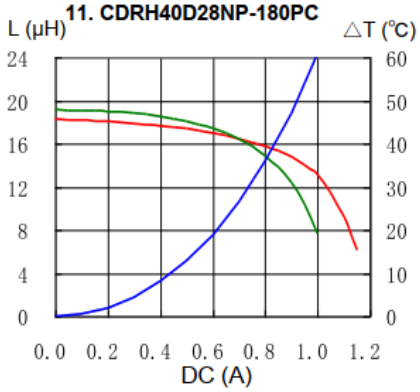
9. CDRH40D28NP-120PC



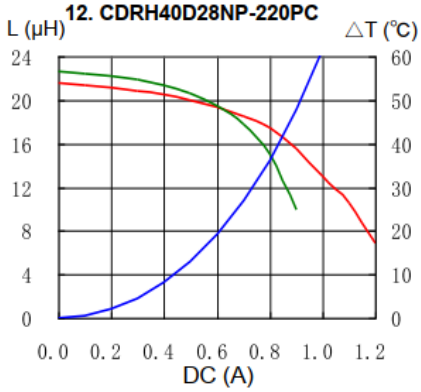
10. CDRH40D28NP-150PC



11. CDRH40D28NP-180PC



12. CDRH40D28NP-220PC



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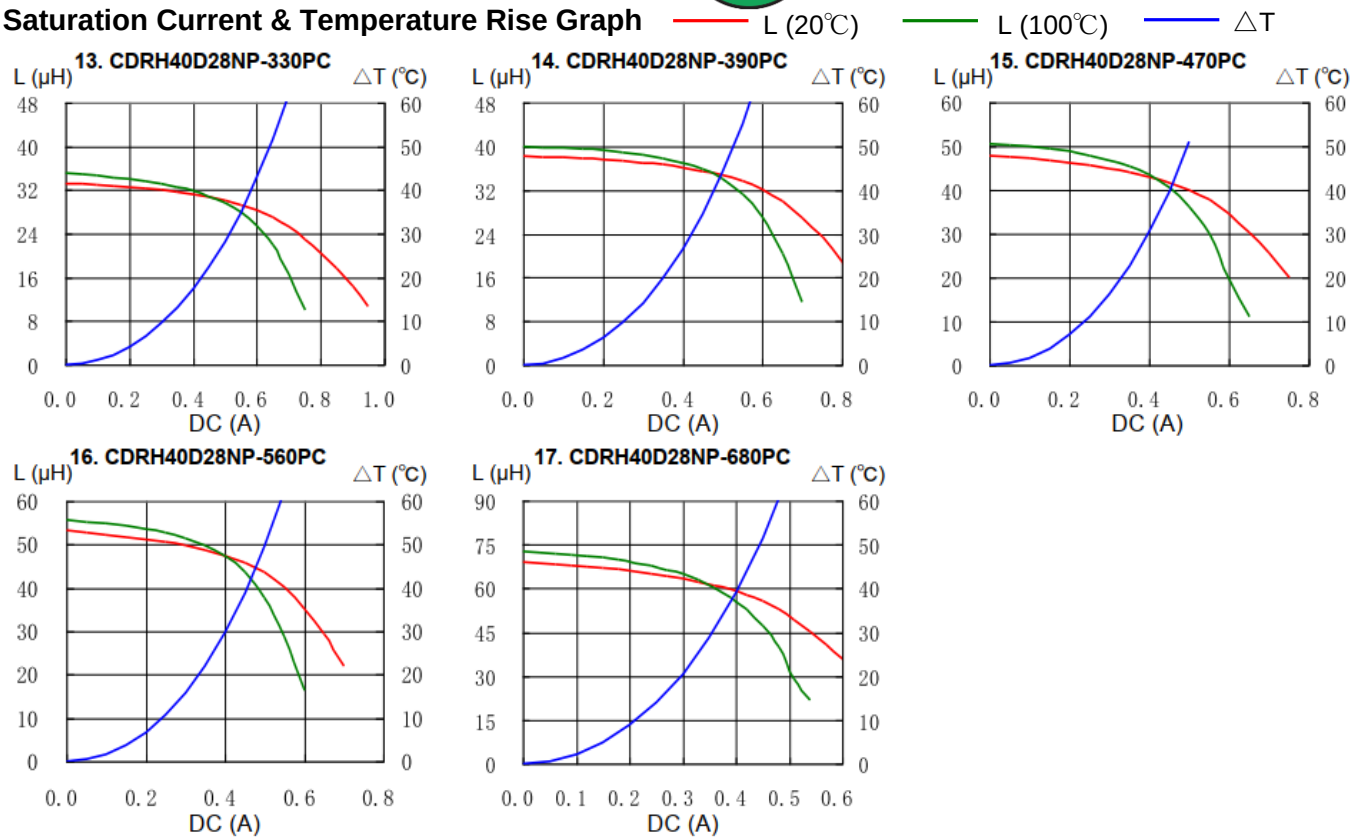
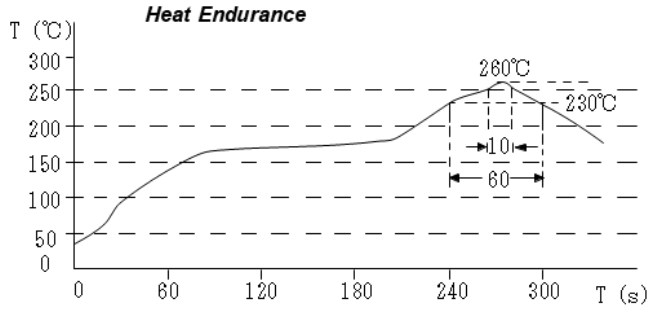
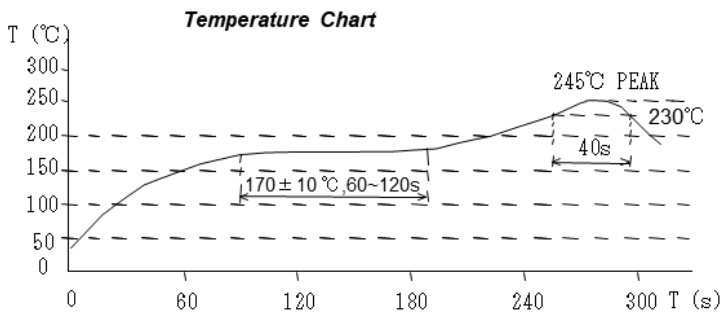
Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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