SMD Power Inductor
CDH20D14D

Under Development

RoHS

Halogen Free

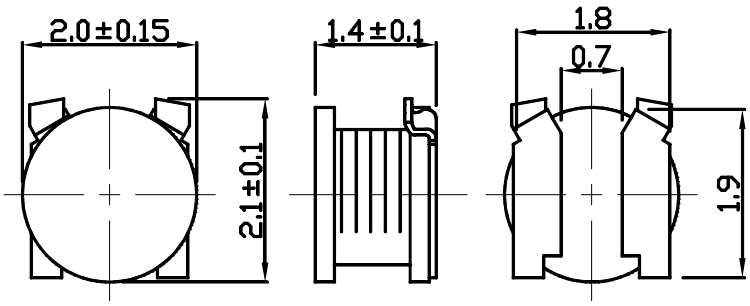
Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.2 × 2.15 × 1.5 mm Max.
- Product weight: 16mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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

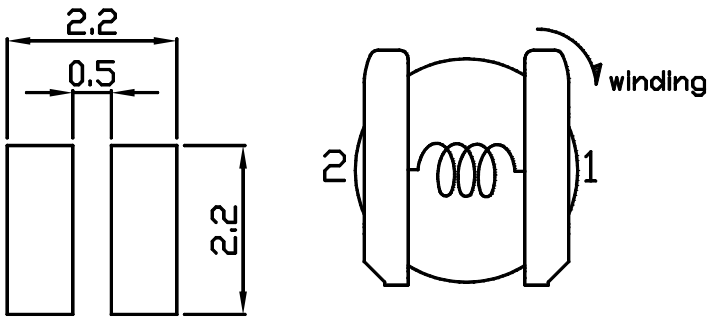
Packaging
- Carrier tape and reel packaging.

Applications
- Ideally used in Mobile phone, PDA, MP3 DVC/DSC HDD etc.

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

PART NAME	STAMP	INDUCTANCE (μH) ※1	D.C.R. (mΩ) (at 20℃)	SATURATION CURRENT (A) (at 20℃) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDH20D14DNP-R44NC	A	0.44±30%	43±25%	2.60	1.88
CDH20D14DNP-R72NC	B	0.72±30%	56±25%	2.10	1.60
CDH20D14DNP-1R0NC	C	1.0±30%	68±25%	1.75	1.52
CDH20D14DNP-1R5NC	E	1.5±30%	100±20%	1.50	1.16
CDH20D14DNP-2R2MC	G	2.2±20%	175±20%	1.19	0.82
CDH20D14DNP-3R3MC	J	3.3±20%	215±20%	1.03	0.74
CDH20D14DNP-4R7MC	L	4.7±20%	265±20%	0.88	0.70
CDH20D14DNP-6R8MC	P	6.8±20%	385±20%	0.75	0.51
CDH20D14DNP-100MC	R	10±20%	765±20%	0.56	0.38
CDH20D14DNP-150MC	T	15±20%	1000±20%	0.47	0.32

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% 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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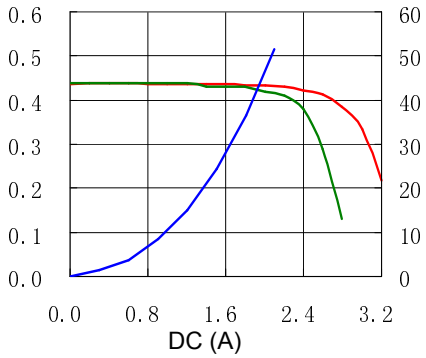
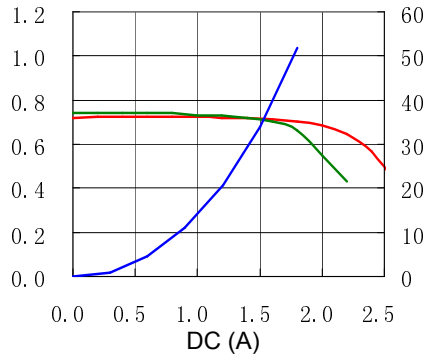
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

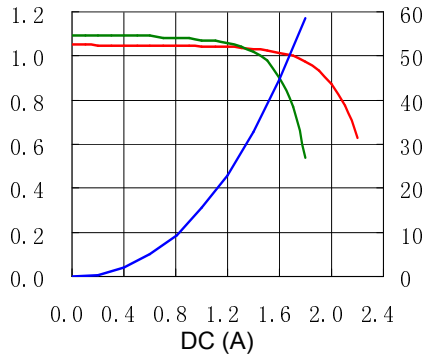
1. CDH20D14DNP-R44NC



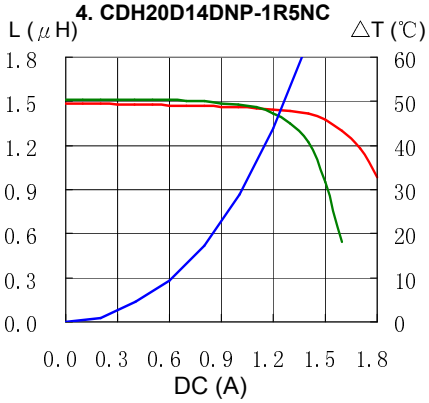
2. CDH20D14DNP-R72NC



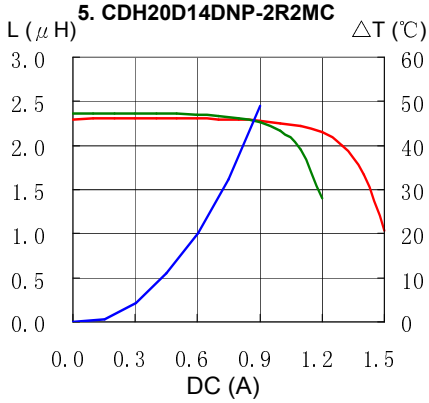
3. CDH20D14DNP-1R0NC



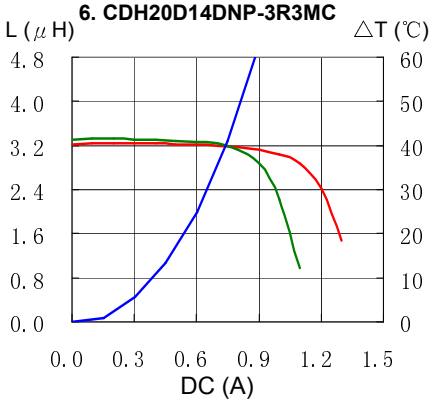
4. CDH20D14DNP-1R5NC



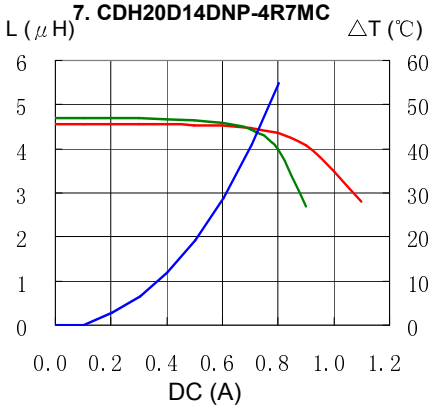
5. CDH20D14DNP-2R2MC



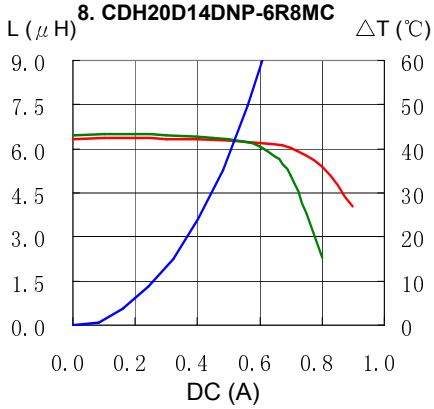
6. CDH20D14DNP-3R3MC



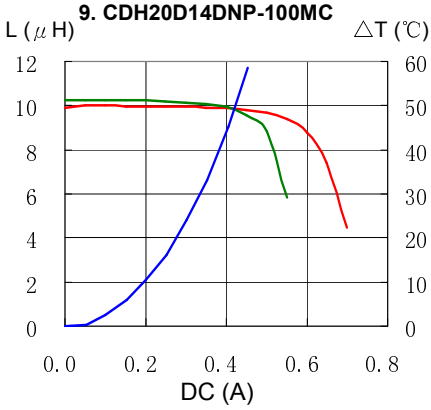
7. CDH20D14DNP-4R7MC



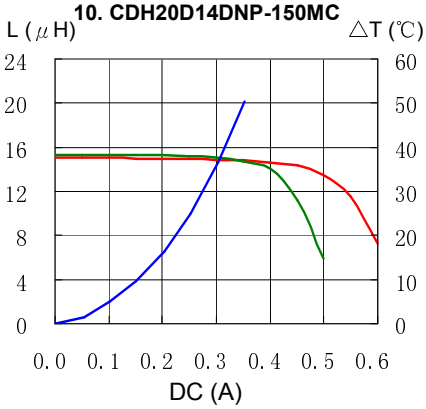
8. CDH20D14DNP-6R8MC



9. CDH20D14DNP-100MC



10. CDH20D14DNP-150MC



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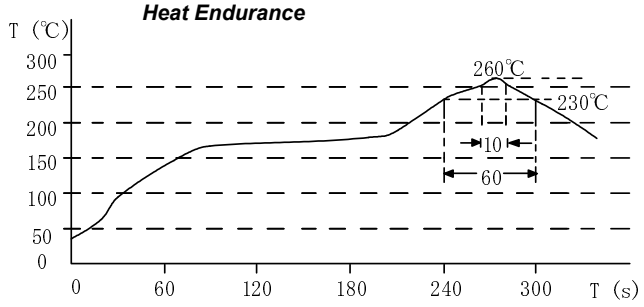
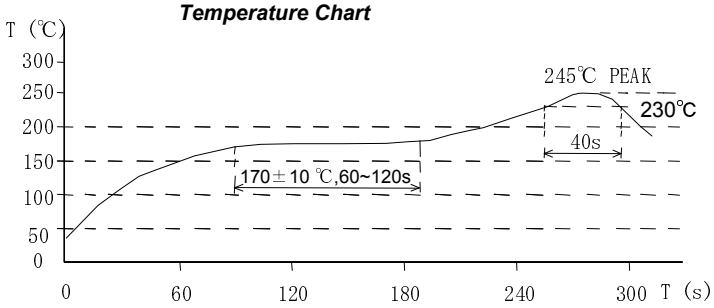
Solder Reflow Condition

Heat Endurance



Temperature Chart



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