SMD Power Inductor
CDRH5D28R/HP



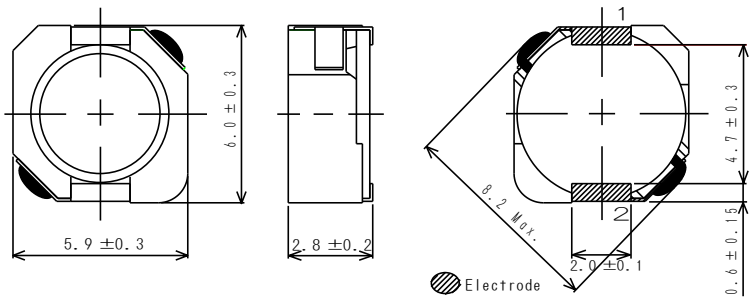
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

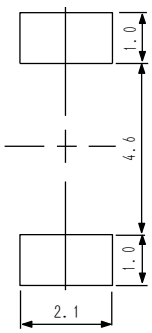
Packaging
- Carrier tape and reel packaging
- 13.0"diameter reel
- 2000pcs per reel

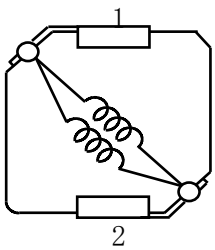
Applications
- Ideally used in Notebook PC,HDD,DSC/DVC, LCD TV ,Game machine etc. as DC-DC converter inductors.

Dimension - [mm]

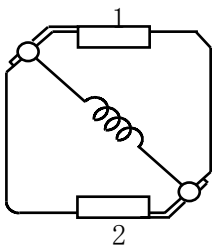


Land pattern and Schematics - [mm]





(2.2μH～10μH)



(12μH～47μH)

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
				at 20℃	at 105℃	
CDRH5D28RHPNP-2R2NC	2R2	2.2±25%	24.8(19.8)	5.50	4.50	3.80
CDRH5D28RHPNP-3R0NC	3R0	3.0±25%	31.8(25.4)	4.70	3.90	3.35
CDRH5D28RHPNP-4R7NC	4R7	4.7±25%	43.1(34.5)	3.70	3.05	2.80
CDRH5D28RHPNP-5R6NC	5R6	5.6±25%	47.9(38.3)	3.30	2.65	2.70
CDRH5D28RHPNP-6R8NC	6R8	6.8±25%	61.3(49.0)	3.10	2.55	2.50
CDRH5D28RHPNP-8R2NC	8R2	8.2±25%	88.4(70.7)	2.70	2.30	1.90
CDRH5D28RHPNP-100MC	100	10.0±20%	93.0(74.4)	2.45	2.05	1.85
CDRH5D28RHPNP-120MC	120	12.0±20%	115(92.1)	2.30	2.00	1.60
CDRH5D28RHPNP-150MC	150	15.0±20%	144(115)	2.05	1.65	1.40
CDRH5D28RHPNP-180MC	180	18.0±20%	161(128)	1.90	1.55	1.35
CDRH5D28RHPNP-220MC	220	22.0±20%	213(171)	1.75	1.42	1.20
CDRH5D28RHPNP-270MC	270	27.0±20%	277(221)	1.60	1.30	1.00
CDRH5D28RHPNP-330MC	330	33.0±20%	314(251)	1.35	1.10	0.90
CDRH5D28RHPNP-470MC	470	47.0±20%	379(303)	1.20	1.00	0.85

※1. Inductance measuring condition: at 100kHz.

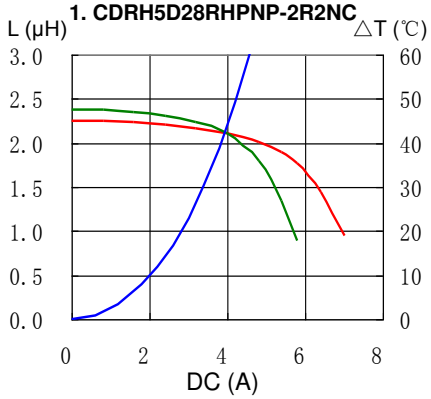
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

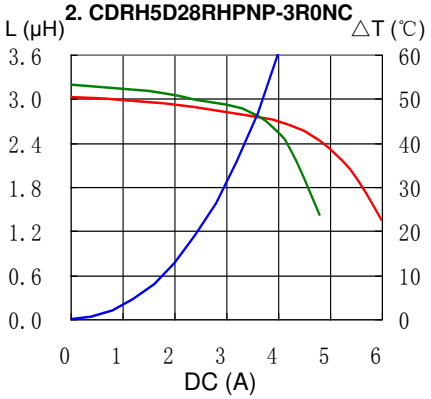
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

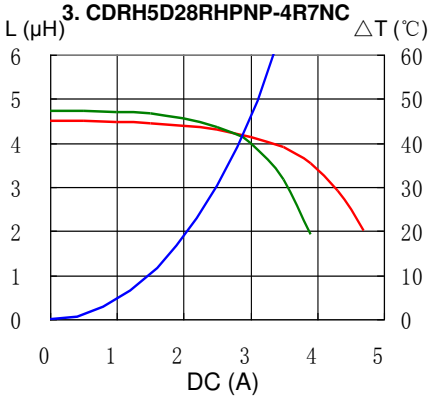
1. CDRH5D28RHPNP-2R2NC



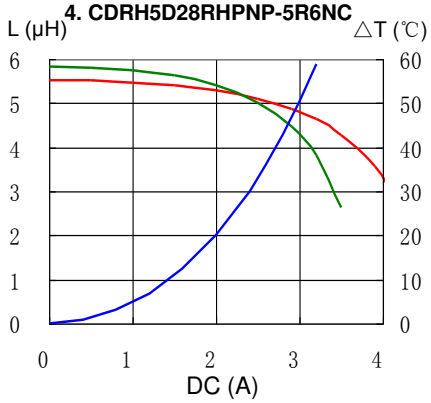
2. CDRH5D28RHPNP-3R0NC



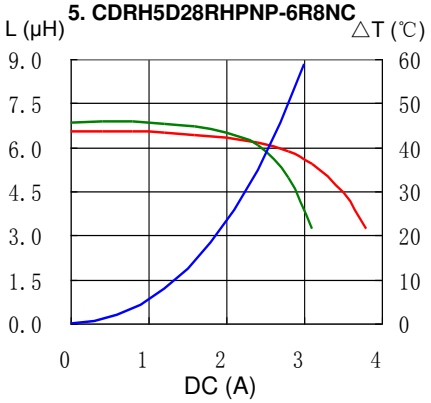
3. CDRH5D28RHPNP-4R7NC



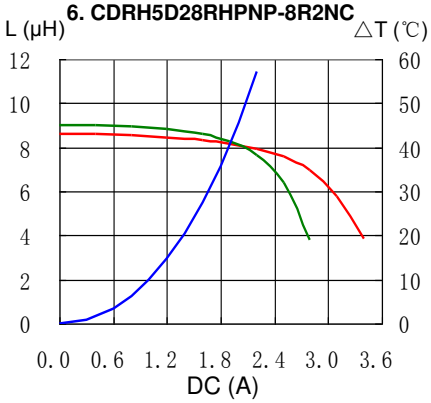
4. CDRH5D28RHPNP-5R6NC



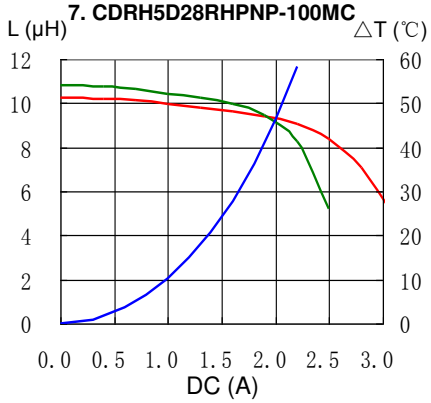
5. CDRH5D28RHPNP-6R8NC



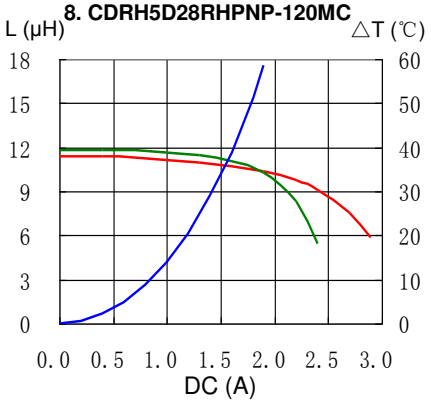
6. CDRH5D28RHPNP-8R2NC



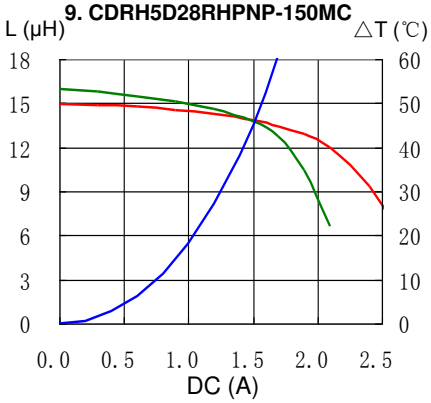
7. CDRH5D28RHPNP-100MC



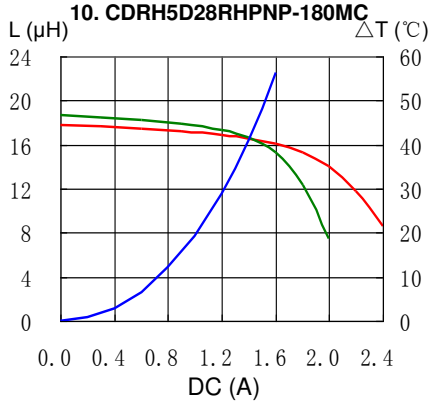
8. CDRH5D28RHPNP-120MC



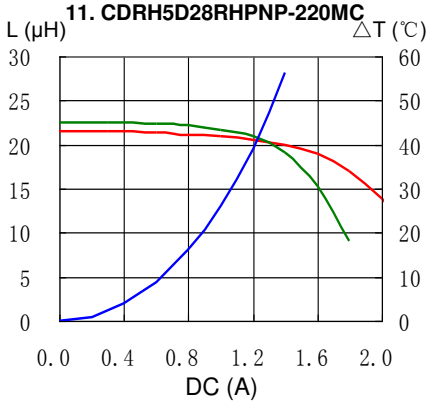
9. CDRH5D28RHPNP-150MC



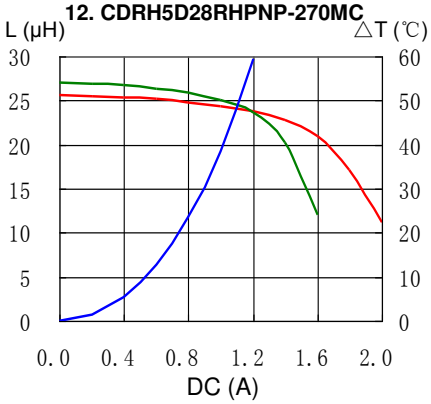
10. CDRH5D28RHPNP-180MC



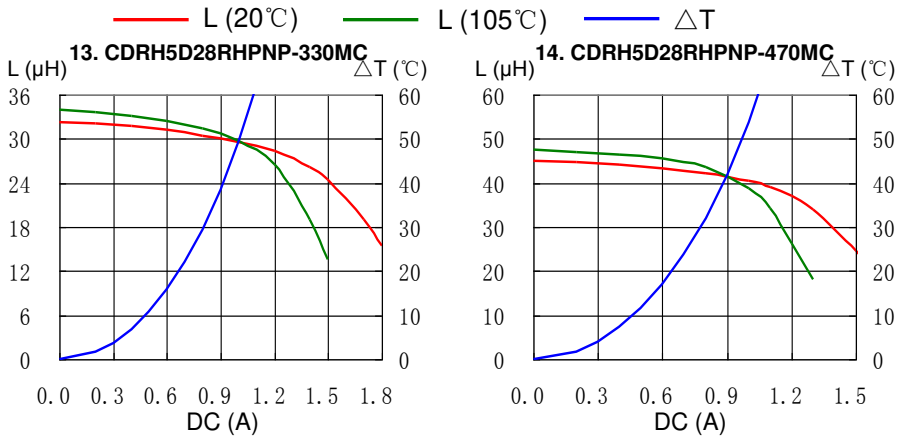
11. CDRH5D28RHPNP-220MC



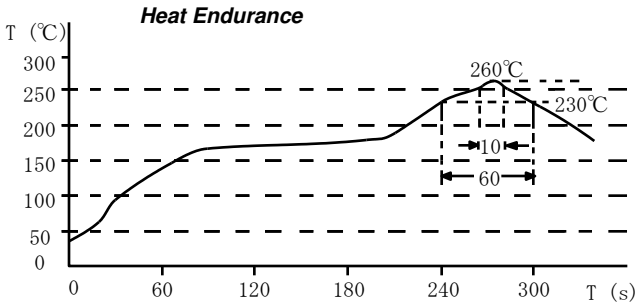
12. CDRH5D28RHPNP-270MC

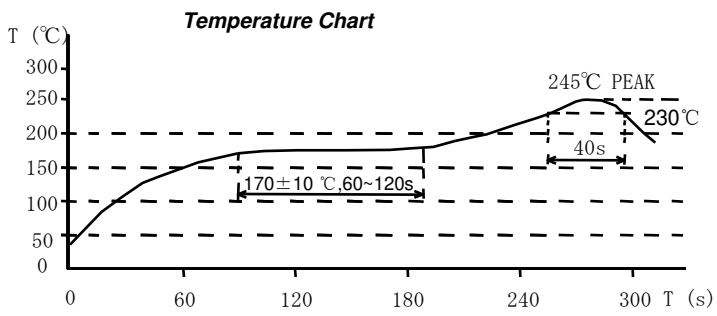


Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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