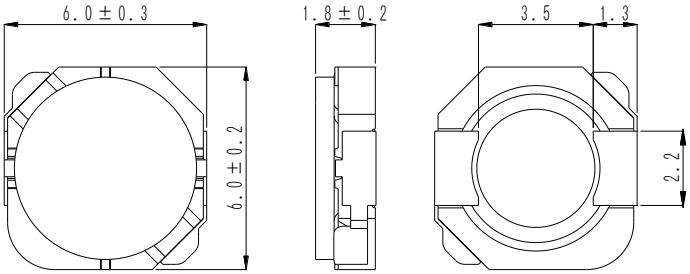
SMD Power Inductor
CDRH5D18B/HP

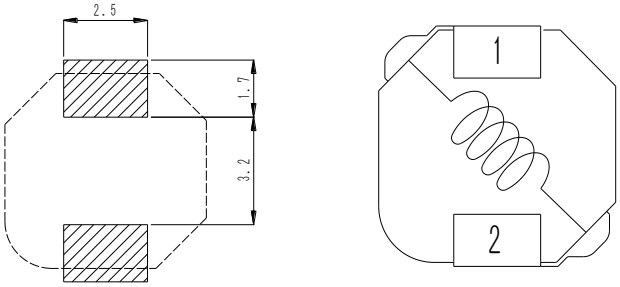
RoHS

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:6.3 × 6.2 × 2.0 mm Max.
- Product weight: 230mg(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
- 12.9"diameter reel
- 2000pcs per reel

Applications
- Ideally used in Mobile phone, MP3, PDA, HDD, DSC/DVC, Game machine, etc as DC-DC converter inductors

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 100℃	
CDRH5D18BHPNP-0R6MC	0R6	0.6±20%	25 (19)	8.2	6.8	4.4
CDRH5D18BHPNP-1R0MC	1R0	1.0±20%	31 (24)	6.6	5.6	3.7
CDRH5D18BHPNP-1R5MC	1R5	1.5±20%	38 (29)	5.3	4.6	2.8
CDRH5D18BHPNP-1R8MC	1R8	1.8±20%	46 (35)	5.0	4.1	2.5
CDRH5D18BHPNP-2R7MC	2R7	2.7±20%	65 (50)	3.9	3.3	2.3
CDRH5D18BHPNP-3R3MC	3R3	3.3±20%	78 (60)	3.4	2.9	2.0
CDRH5D18BHPNP-4R2MC	4R2	4.2±20%	98 (75)	3.1	2.5	1.8
CDRH5D18BHPNP-5R0MC	5R0	5.0±20%	109 (84)	2.7	2.4	1.7

※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.

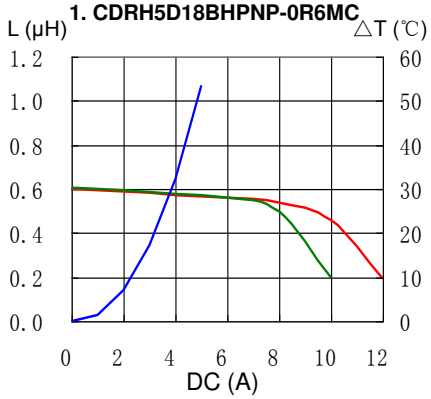
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

Revised: 9-Jan-17

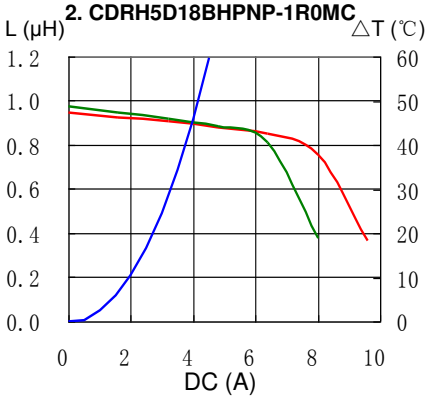
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

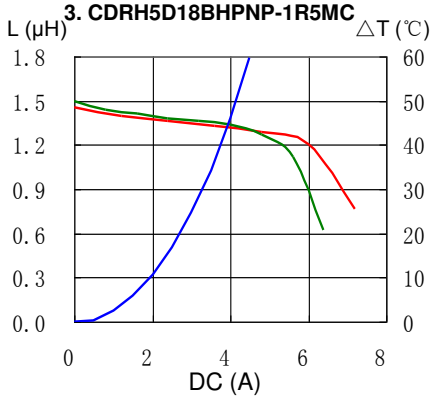
1. CDRH5D18BHPNP-0R6MC



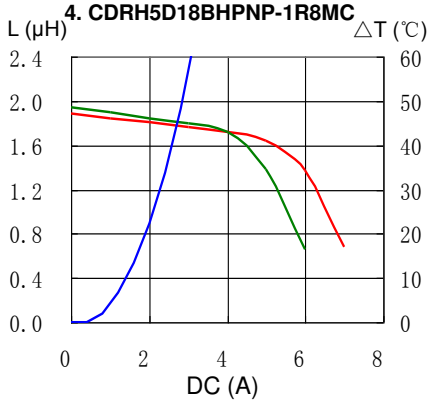
2. CDRH5D18BHPNP-1R0MC



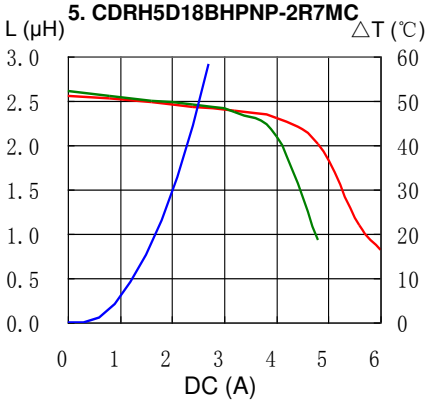
3. CDRH5D18BHPNP-1R5MC



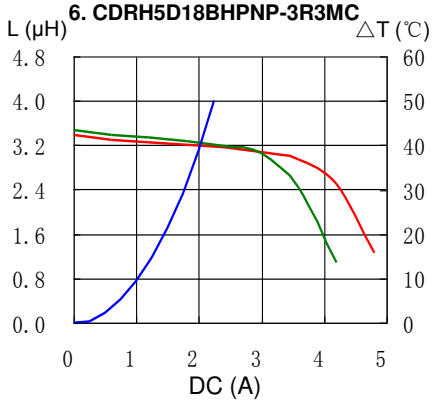
4. CDRH5D18BHPNP-1R8MC



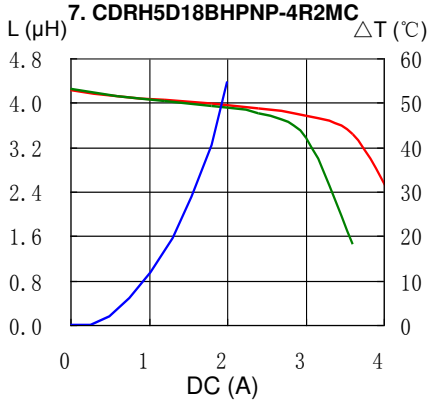
5. CDRH5D18BHPNP-2R7MC



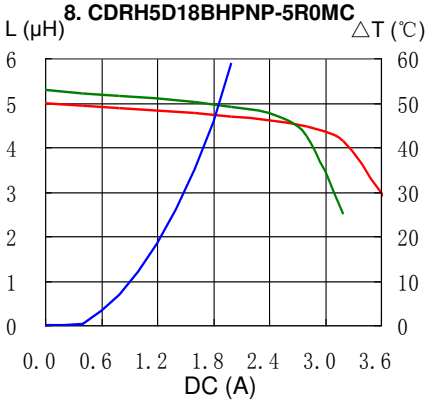
6. CDRH5D18BHPNP-3R3MC



7. CDRH5D18BHPNP-4R2MC

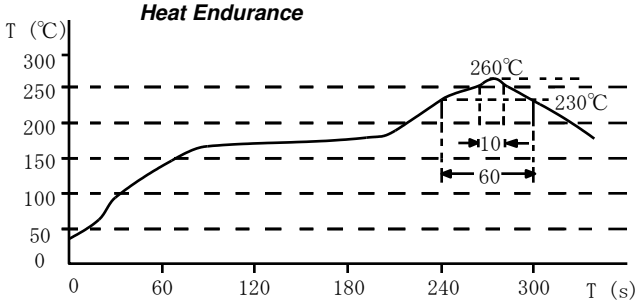


8. CDRH5D18BHPNP-5R0MC

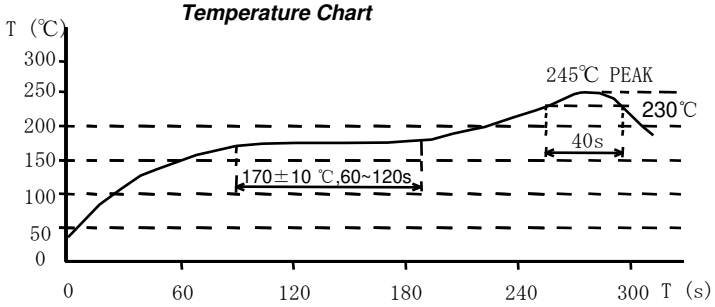


Solder Reflow Condition

Heat Endurance



Temperature Chart



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