SMD Power Inductor
CDRH4D18C/LD

RoHS

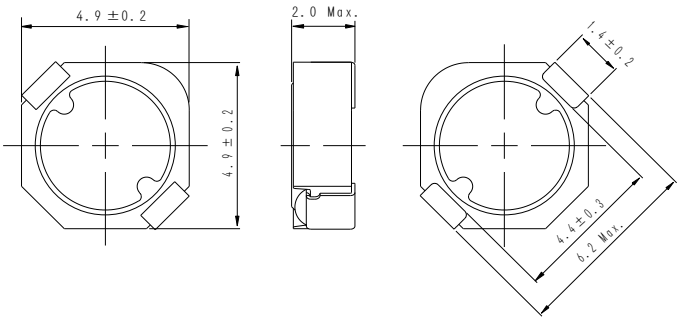
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:5.1 × 5.1 × 2.0 mm Max.
- Product weight: 135mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

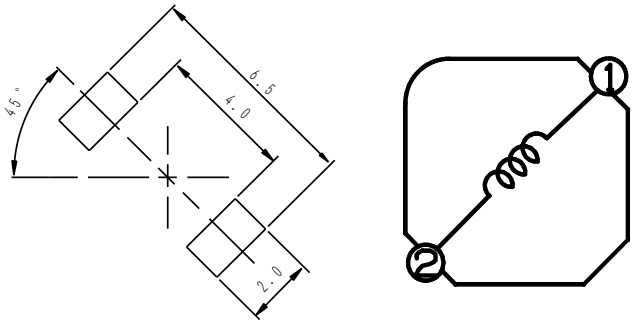
Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

Applications
- Ideally used in Mobile phone,PDA,MP3,HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



Revised: 9-Jan-17

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D18CLDNP-1R1PC	A	1.1 ± 25%	24(19)	2.10	3.50
CDRH4D18CLDNP-2R2PC	B	2.2 ± 25%	31(25)	1.30	2.80
CDRH4D18CLDNP-3R3PC	C	3.3 ± 25%	49(39)	1.10	2.20
CDRH4D18CLDNP-4R7PC	D	4.7 ± 25%	61(49)	0.90	2.00
CDRH4D18CLDNP-6R3PC	E	6.3 ± 25%	74(59)	0.75	1.60
CDRH4D18CLDNP-100PC	F	10 ± 25%	110(88)	0.60	1.20
CDRH4D18CLDNP-150PC	G	15 ± 25%	151(121)	0.50	1.05
CDRH4D18CLDNP-220PC	H	22 ± 25%	202(162)	0.42	0.90
CDRH4D18CLDNP-330PC	I	33 ± 25%	327(262)	0.35	0.69
CDRH4D18CLDNP-470PC	J	47 ± 25%	456(365)	0.31	0.57
CDRH4D18CLDNP-680PC	K	68 ± 25%	632(506)	0.26	0.46
CDRH4D18CLDNP-101PC	L	100 ± 25%	962(770)	0.20	0.35

※1. Inductance measuring condition: at 100kHz.

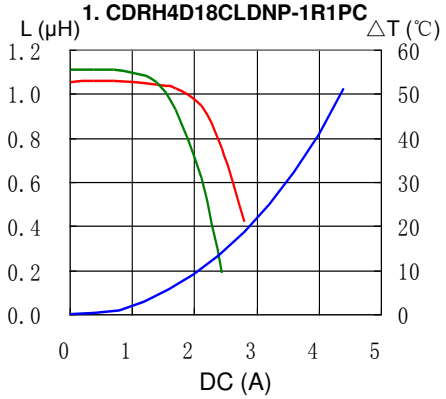
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

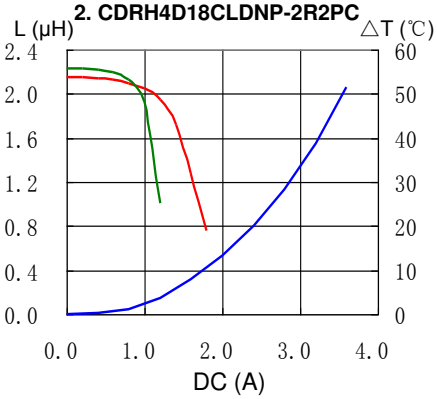
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

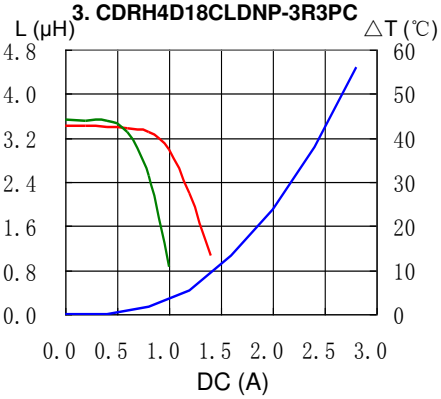
1. CDRH4D18CLDNP-1R1PC



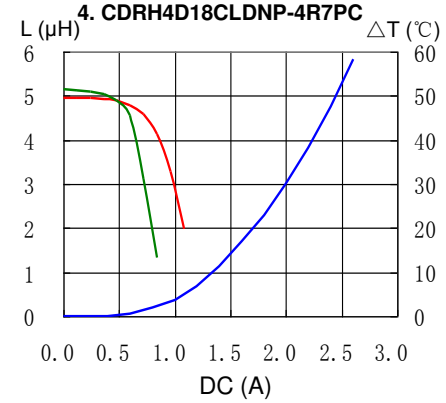
2. CDRH4D18CLDNP-2R2PC



3. CDRH4D18CLDNP-3R3PC



4. CDRH4D18CLDNP-4R7PC



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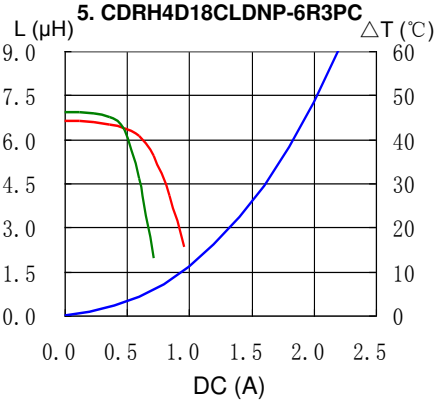
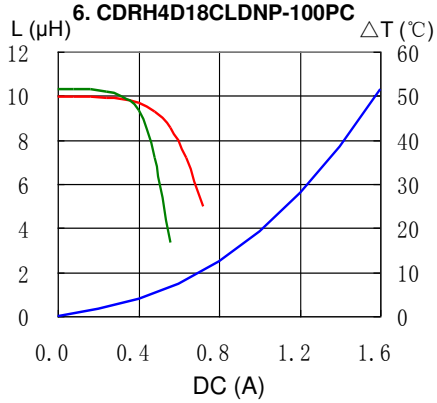
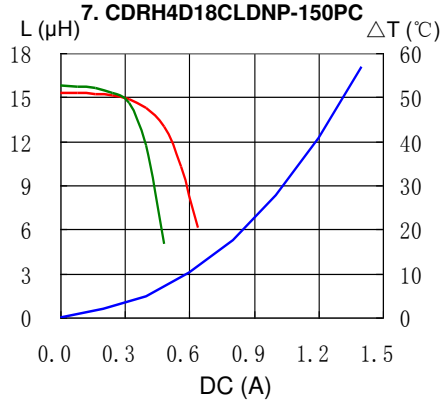


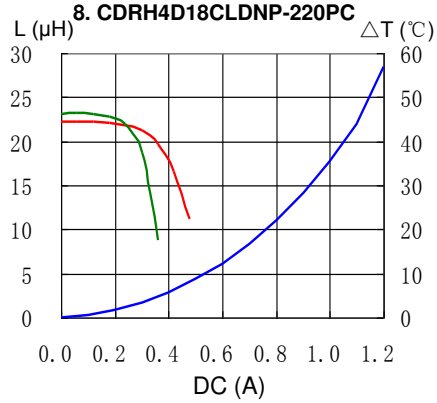
6. CDRH4D18CLDNP-100PC



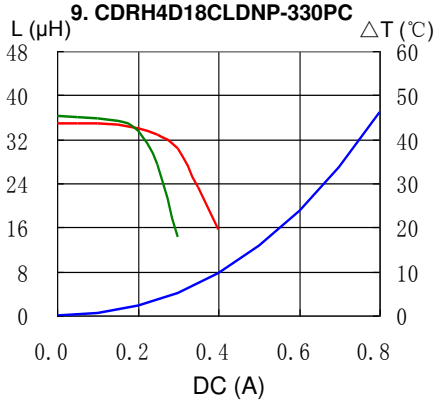
7. CDRH4D18CLDNP-150PC



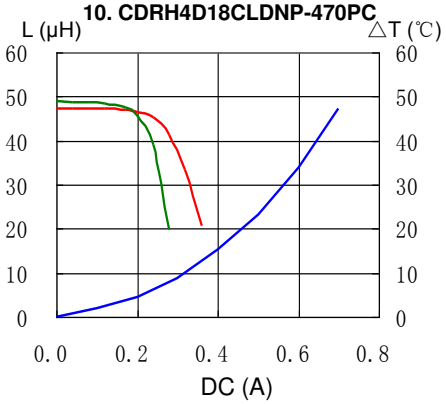
8. CDRH4D18CLDNP-220PC



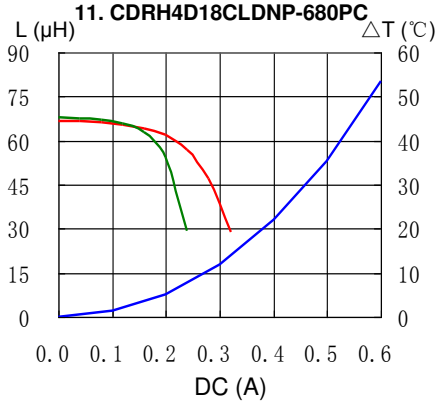
9. CDRH4D18CLDNP-330PC



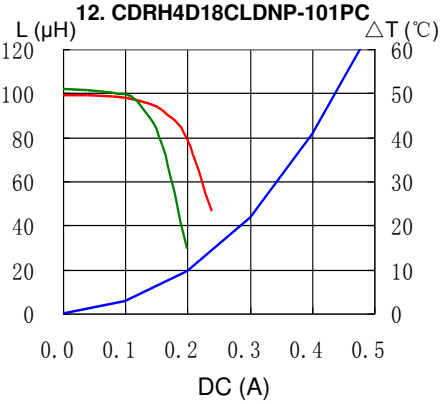
10. CDRH4D18CLDNP-470PC



11. CDRH4D18CLDNP-680PC

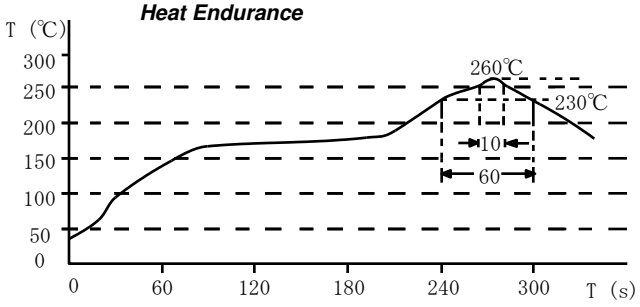


12. CDRH4D18CLDNP-101PC

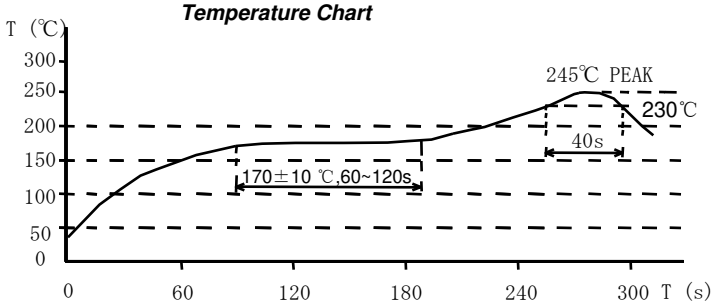


Solder Reflow Condition

Heat Endurance



Temperature Chart



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