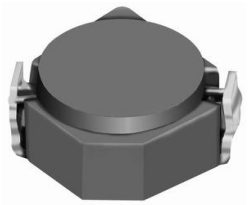
THE DATASHEET OF

CDRH2D18/LDNP-330NC

SMD Power Inductor
CDRH2D18/LD



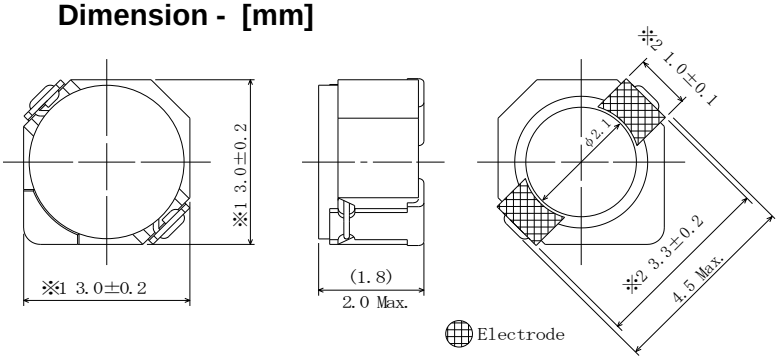
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:3.2 × 3.2 × 2.0 mm Max.
- Product weight: 65mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

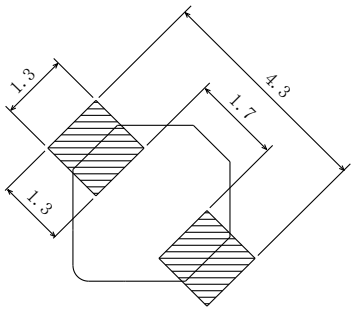
Applications
- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

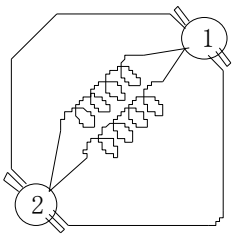
Dimension - [mm]



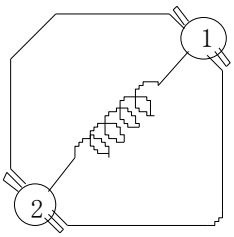
※1 Not including terminal dimension.　　※2 Electrode dimension

Land pattern and Schematics - [mm]





(2.2μH～6.8μH)



(10μH～47μH)

Revised: 13-Nov-20

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℃	
CDRH2D18/LDNP-2R2NC	C	2.2±30%	41(33)	0.85	0.67	2.30
CDRH2D18/LDNP-3R3NC	E	3.3±30%	54(43)	0.75	0.55	2.10
CDRH2D18/LDNP-4R7NC	G	4.7±30%	78(62)	0.63	0.47	1.65
CDRH2D18/LDNP-6R8NC	I	6.8±30%	106(85)	0.52	0.40	1.32
CDRH2D18/LDNP-100NC	K	10±30%	180(145)	0.43	0.33	1.00
CDRH2D18/LDNP-150NC	M	15±30%	220(175)	0.35	0.28	0.80
CDRH2D18/LDNP-220NC	O	22±30%	320(255)	0.30	0.22	0.68
CDRH2D18/LDNP-330NC	Q	33±30%	460(370)	0.24	0.18	0.56
CDRH2D18/LDNP-470NC	S	47±30%	660(530)	0.20	0.15	0.48

※1. Inductance measuring condition: at 100kHz.

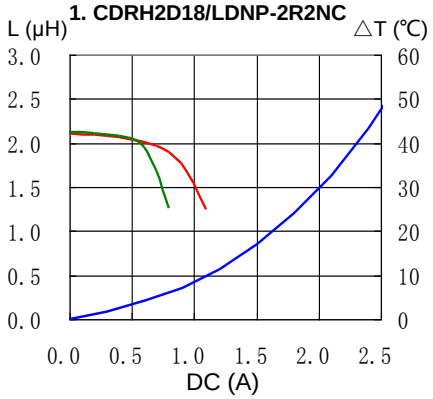
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

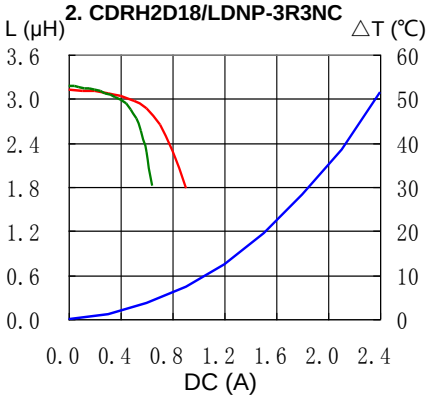
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

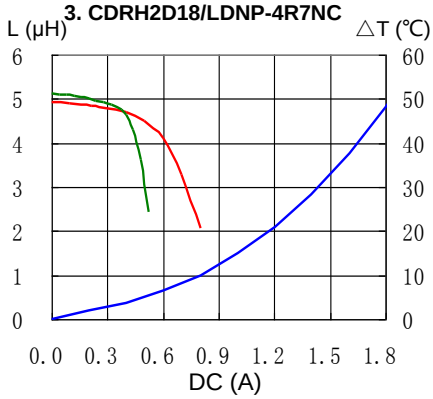
1. CDRH2D18/LDNP-2R2NC



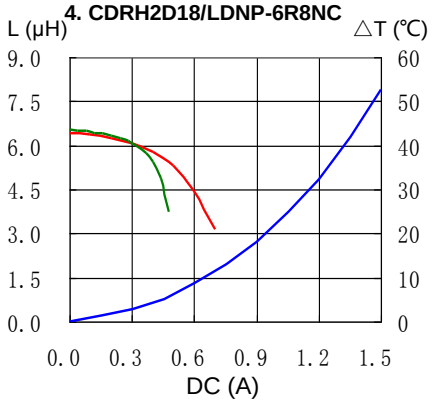
2. CDRH2D18/LDNP-3R3NC



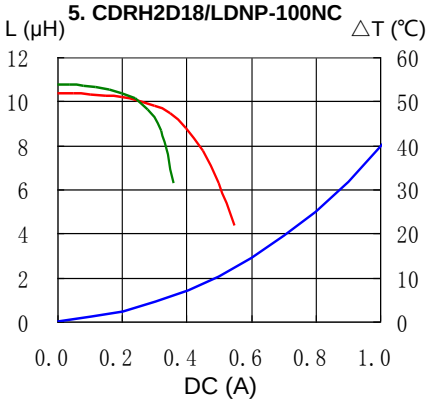
3. CDRH2D18/LDNP-4R7NC



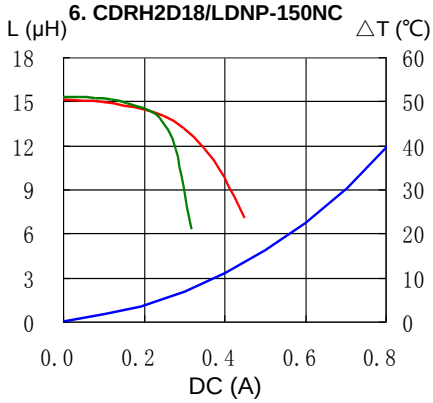
4. CDRH2D18/LDNP-6R8NC



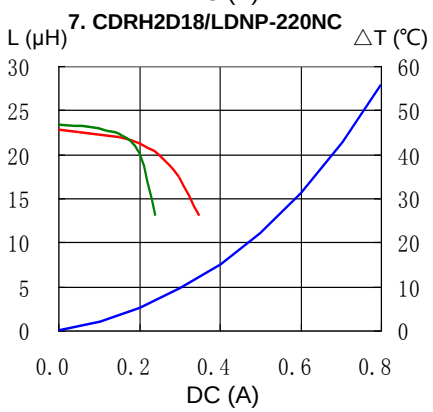
5. CDRH2D18/LDNP-100NC



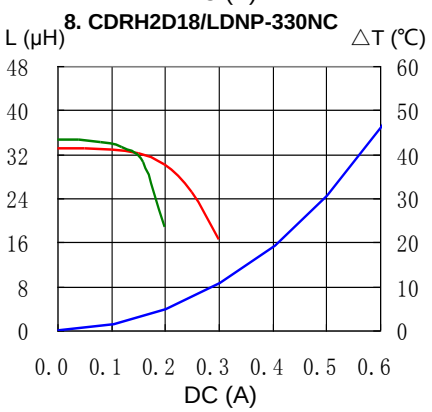
6. CDRH2D18/LDNP-150NC



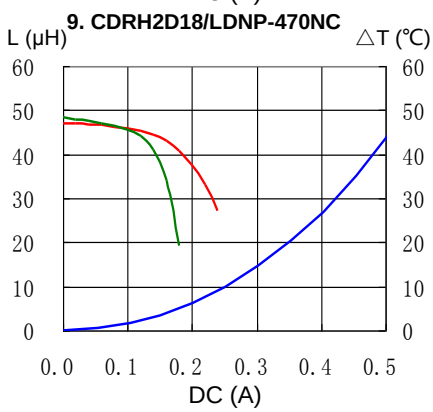
7. CDRH2D18/LDNP-220NC



8. CDRH2D18/LDNP-330NC

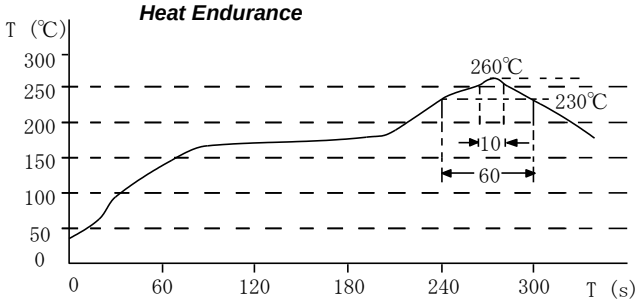


9. CDRH2D18/LDNP-470NC

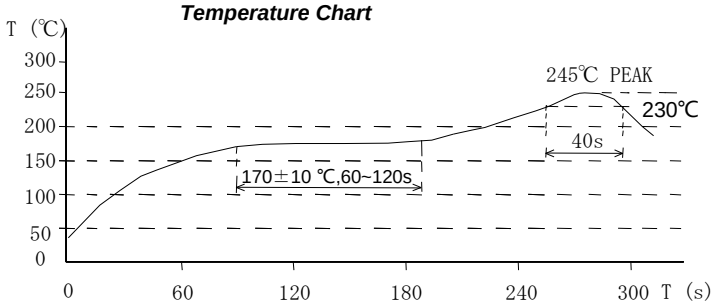


Solder Reflow Condition

Heat Endurance



Temperature Chart



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