THE DATASHEET OF

CDRH3D11HPNP-100NC

SMD Power Inductor

CDRH3D11/HP

RoHS Compliance
Cd: Max. 0.01wt%
Others: Max. 0.1wt%

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 1.2 mm Max.
- Product weight: 55mg(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.

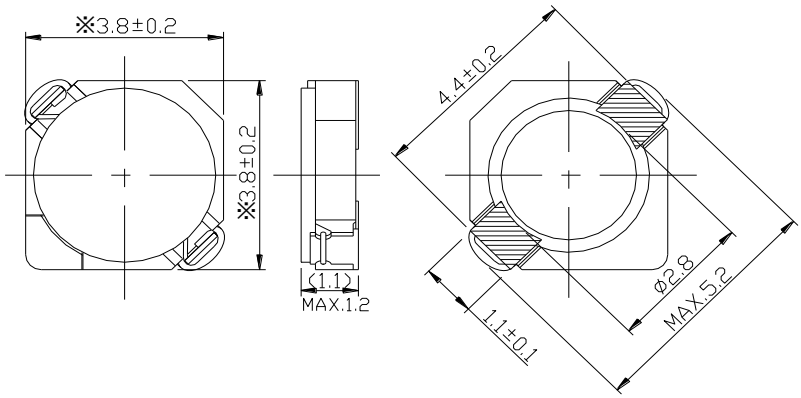
Packaging

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

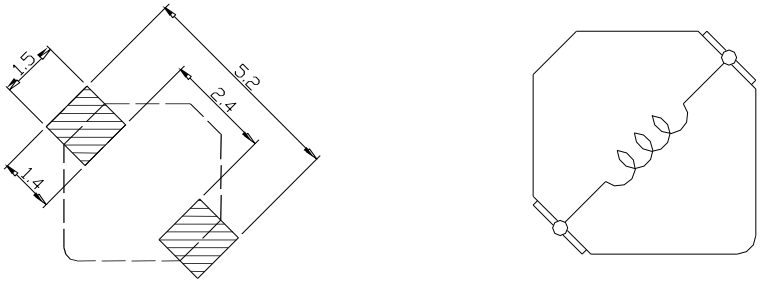
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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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℃	
CDRH3D11HPNP-0R6NC	A	0.6±25%	59(45)	2.90	2.10	1.80
CDRH3D11HPNP-1R2NC	B	1.2±25%	82(63)	2.00	1.50	1.70
CDRH3D11HPNP-1R5NC	C	1.5±25%	104(80)	1.85	1.40	1.45
CDRH3D11HPNP-2R2NC	D	2.2±25%	143(110)	1.60	1.20	1.15
CDRH3D11HPNP-3R3NC	E	3.3±25%	182(140)	1.25	0.90	0.95
CDRH3D11HPNP-4R7NC	F	4.7±25%	234(180)	1.00	0.70	0.90
CDRH3D11HPNP-6R8NC	G	6.8±25%	377(290)	0.85	0.63	0.70
CDRH3D11HPNP-100NC	H	10.0±25%	413(330)	0.80	0.60	0.60
CDRH3D11HPNP-120NC	I	12.0±25%	585(470)	0.64	0.45	0.48
CDRH3D11HPNP-150NC	J	15.0±25%	653(520)	0.58	0.42	0.45
CDRH3D11HPNP-180NC	K	18.0±25%	888(710)	0.52	0.40	0.40
CDRH3D11HPNP-220NC	L	22.0±25%	1012(810)	0.45	0.35	0.33

※1. Inductance measuring condition: at 100kHz 1V.

※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℃).

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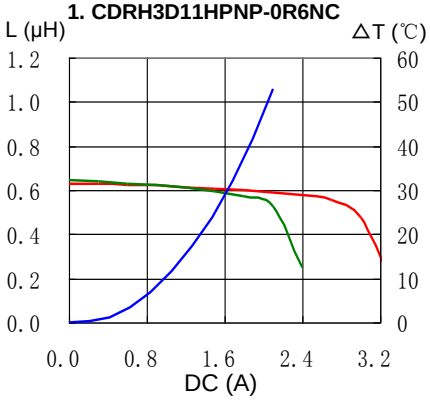
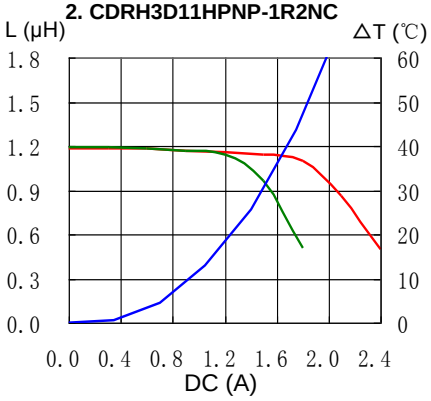
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

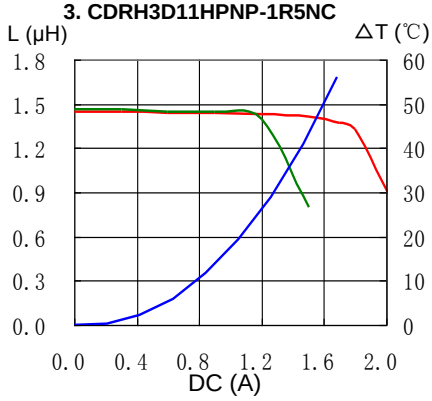
1. CDRH3D11HPNP-0R6NC



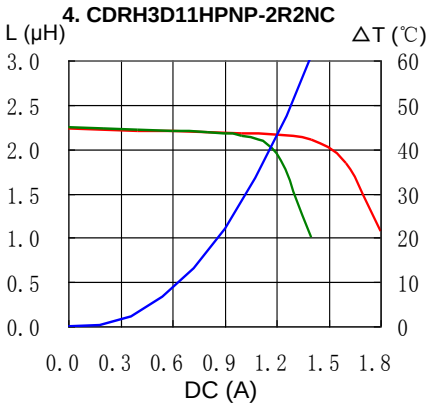
2. CDRH3D11HPNP-1R2NC



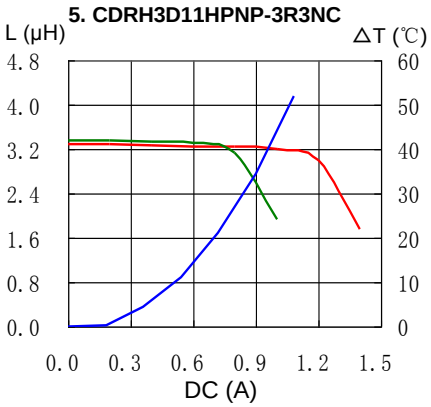
3. CDRH3D11HPNP-1R5NC



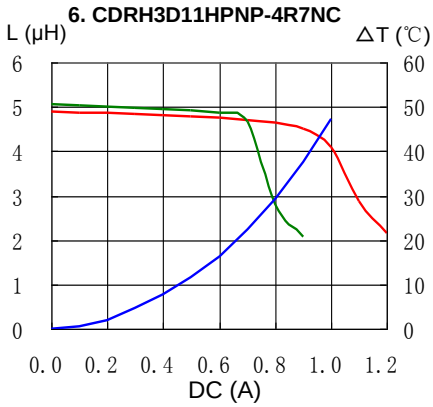
4. CDRH3D11HPNP-2R2NC



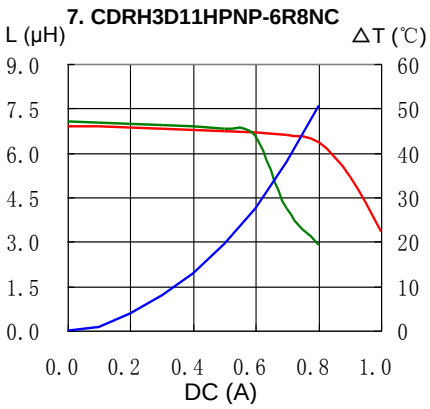
5. CDRH3D11HPNP-3R3NC



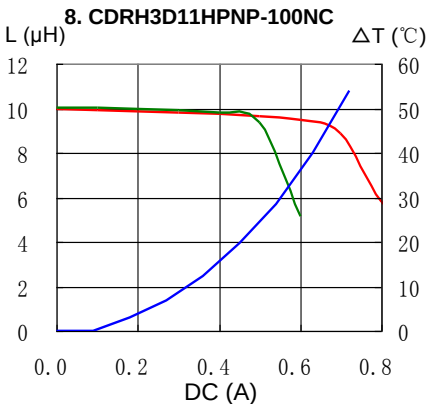
6. CDRH3D11HPNP-4R7NC



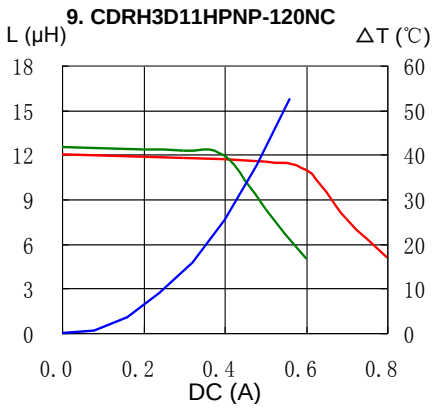
7. CDRH3D11HPNP-6R8NC



8. CDRH3D11HPNP-100NC



9. CDRH3D11HPNP-120NC



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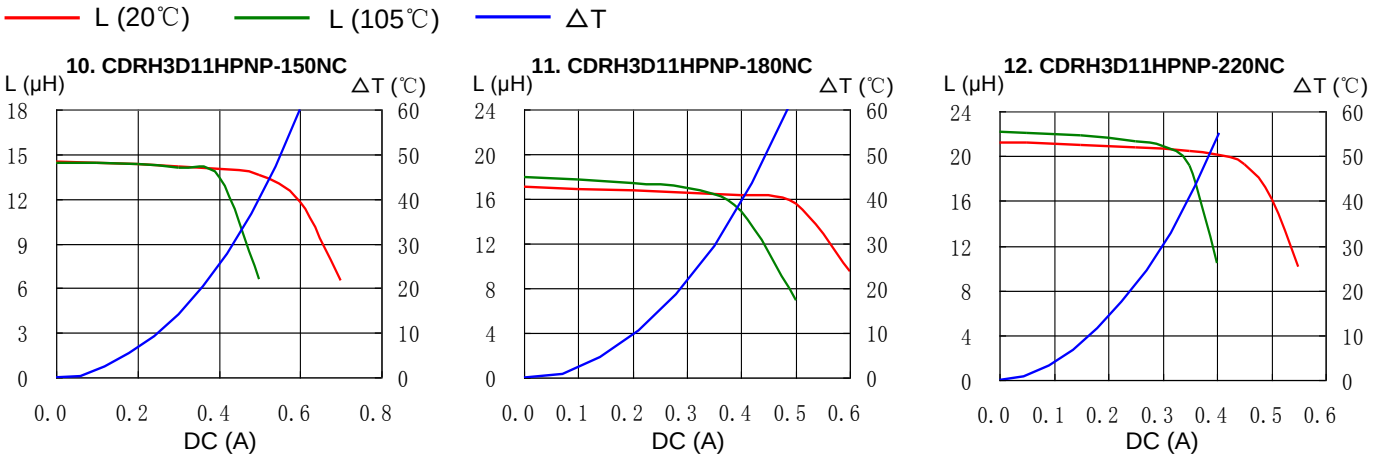
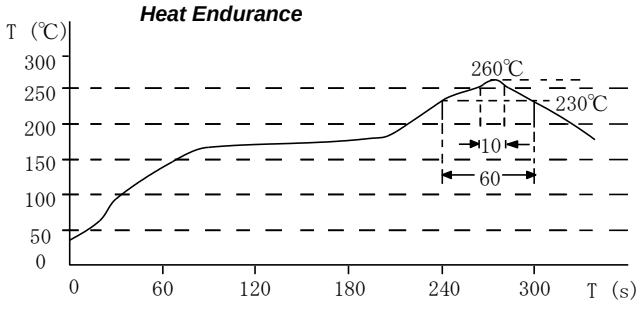
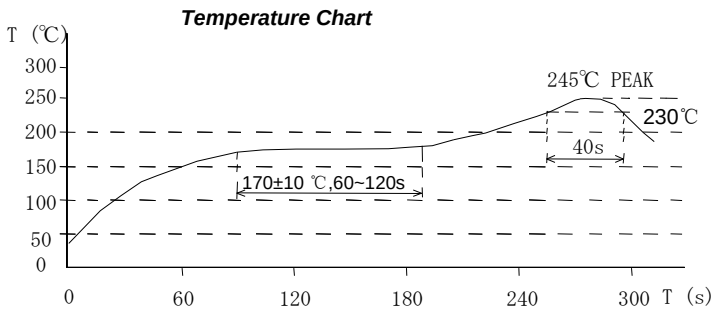
Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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- Shortage Management
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