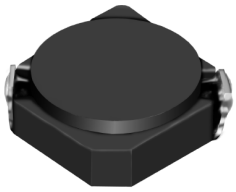
THE DATASHEET OF

CDRH5D16NP-6R8NC

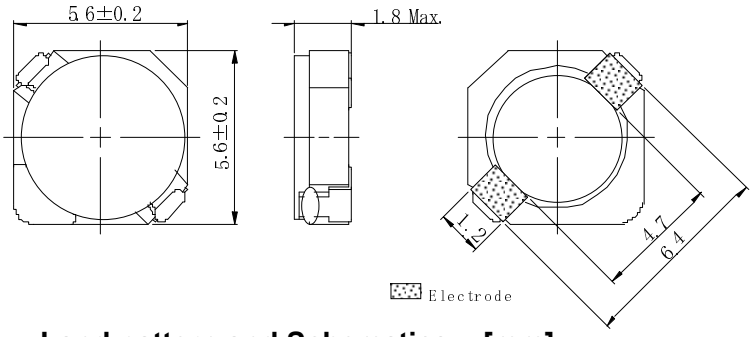
SMD Power Inductor
CDRH5D16

RoHS

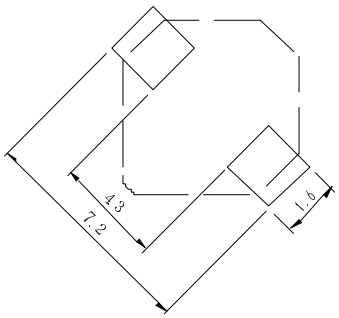
Halogen Free

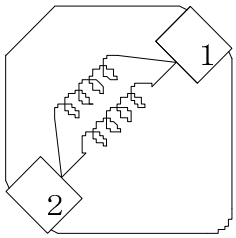


Dimension - [mm]

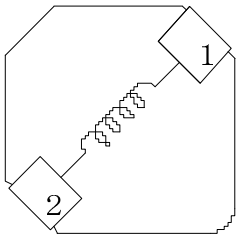


Land pattern and Schematics - [mm]





(0.90μH～10.0μH)



(15.0μH～100μH)

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H:5.8×5.8×1.8 mm Max.
- Product weight: 1.88mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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, Notebook PC, MP3,PDA,HDD,DSC/DVC,Game machine, etc. as DC-DC converter inductors.

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) [Max.] (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 105℃	
CDRH5D16NP-0R9NC	0R9	0.90±25%	14.6mΩ(11.7mΩ)	4.70	3.90	4.70
CDRH5D16NP-2R2NC	2R2	2.2±25%	35.9mΩ(28.7mΩ)	3.00	2.45	2.90
CDRH5D16NP-3R3NC	3R3	3.3±25%	44.5mΩ(35.6mΩ)	2.60	2.15	2.40
CDRH5D16NP-4R7NC	4R7	4.7±25%	64.1mΩ(51.3mΩ)	2.15	1.75	2.10
CDRH5D16NP-6R8NC	6R8	6.8±25%	84.3mΩ(67.4mΩ)	1.80	1.45	1.70
CDRH5D16NP-8R2NC	8R2	8.2±25%	0.11(89.7mΩ)	1.55	1.25	1.50
CDRH5D16NP-100MC	100	10.0±20%	0.14(0.11)	1.45	1.15	1.30
CDRH5D16NP-150MC	150	15.0±20%	0.20(0.16)	1.15	0.95	1.10
CDRH5D16NP-220MC	220	22.0±20%	0.32(0.25)	0.95	0.80	0.80
CDRH5D16NP-330MC	330	33.0±20%	0.44(0.35)	0.80	0.65	0.70
CDRH5D16NP-470MC	470	47.0±20%	0.58(0.46)	0.68	0.52	0.60
CDRH5D16NP-680MC	680	68.0±20%	0.86(0.69)	0.55	0.44	0.50
CDRH5D16NP-820MC	820	82.0±20%	1.06(0.85)	0.50	0.40	0.42
CDRH5D16NP-101MC	101	100±20%	1.41(1.13)	0.45	0.35	0.35

※1. Inductance measuring condition: at 100kHz.

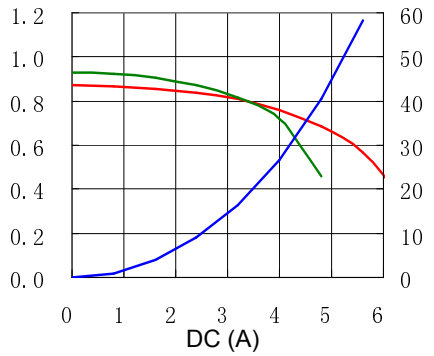
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

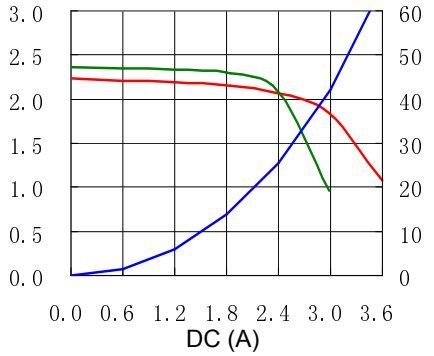
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

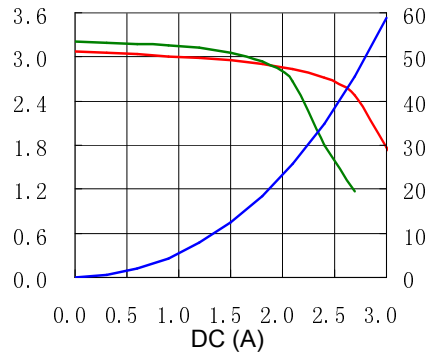
1. CDRH5D16NP-0R9NC



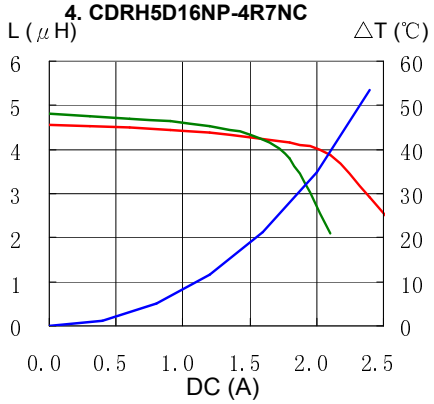
2. CDRH5D16NP-2R2NC



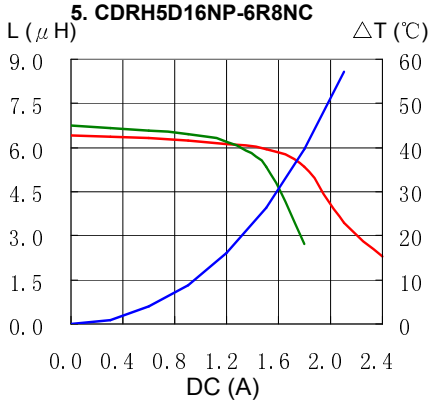
3. CDRH5D16NP-3R3NC



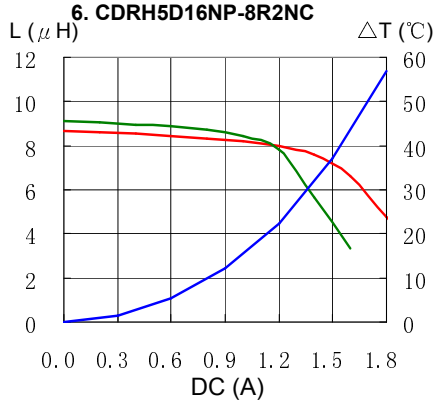
4. CDRH5D16NP-4R7NC



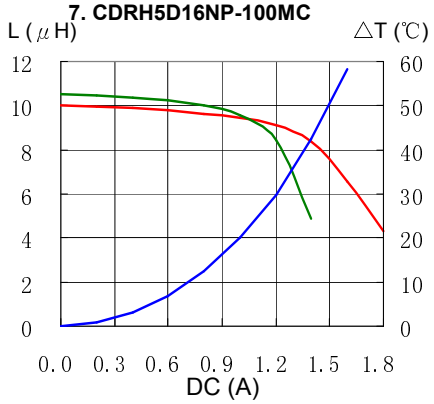
5. CDRH5D16NP-6R8NC



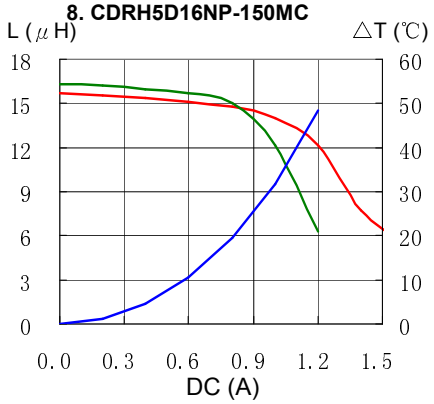
6. CDRH5D16NP-8R2NC



7. CDRH5D16NP-100MC



8. CDRH5D16NP-150MC



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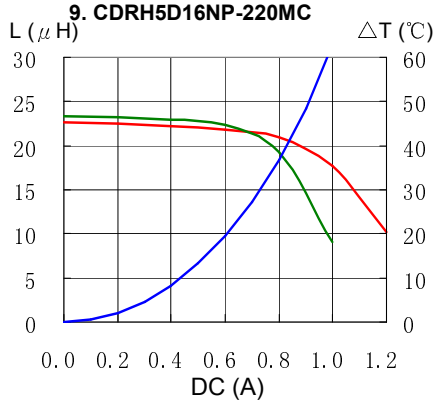

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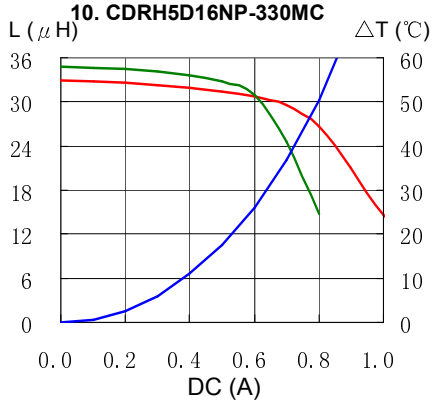
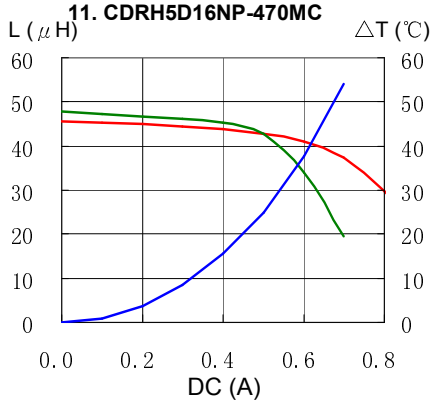
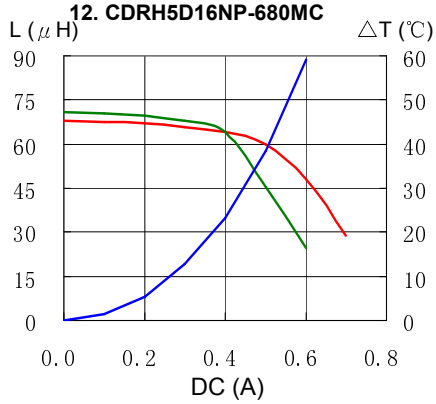


11. CDRH5D16NP-470MC

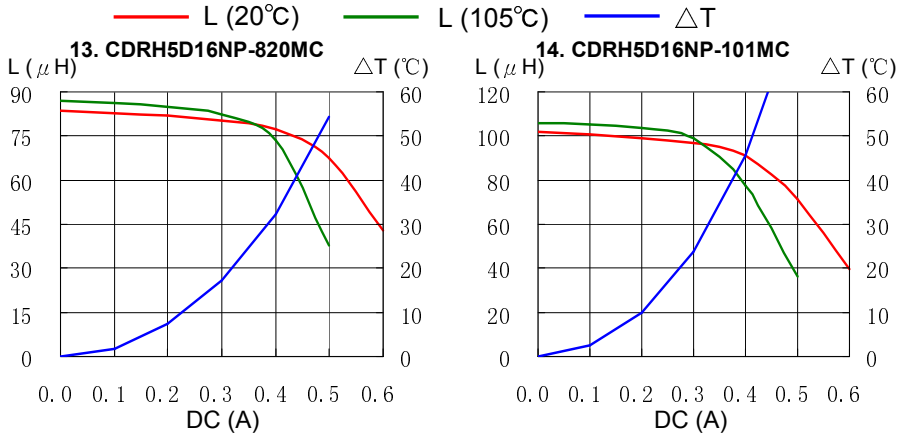


12. CDRH5D16NP-680MC

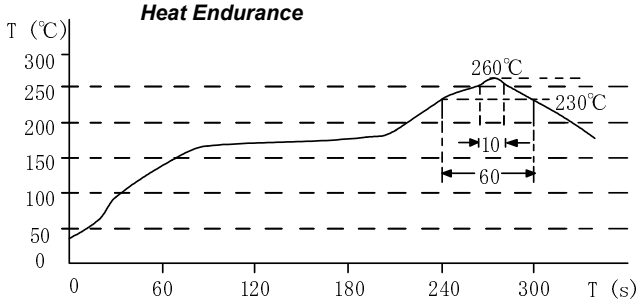


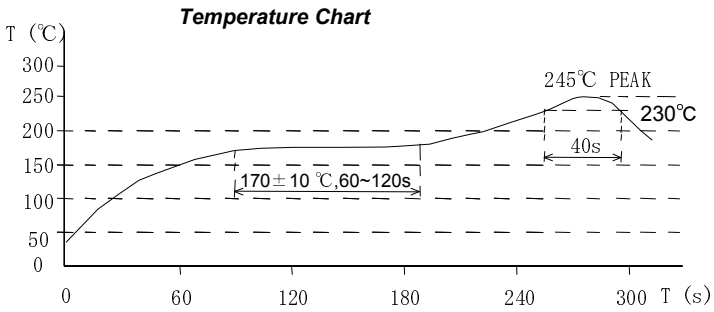
SMD Power Inductor
CDRH5D16

Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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