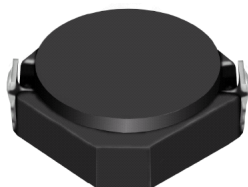


SMD Power Inductor CDRH4D15/S



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.7 × 4.7 × 1.7 mm Max.
- Product weight: 107mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

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

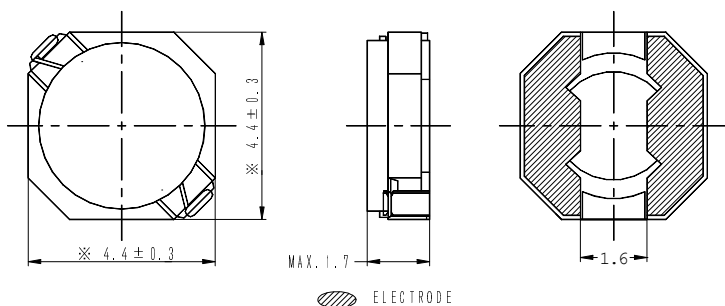
Packaging

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

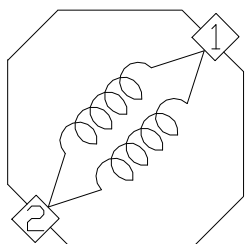
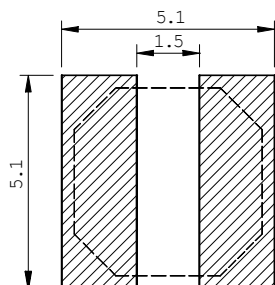
Applications

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

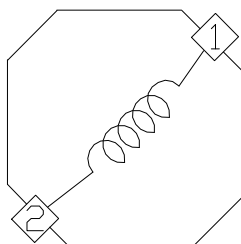
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.5 μ H ~ 5.6 μ H)



(6.8 μ H ~ 33 μ H)

SMD Power Inductor CDRH4D15/S



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 25°C	at 105°C	
CDRH4D15/SNP-1R5NC	1R5	1.5 $\pm$ 30%	41 (33)	2.30	1.90	3.40
CDRH4D15/SNP-2R2NC	2R2	2.2 $\pm$ 30%	60 (48)	2.00	1.60	2.60
CDRH4D15/SNP-3R3NC	3R3	3.3 $\pm$ 30%	89 (71)	1.60	1.30	1.70
CDRH4D15/SNP-4R7NC	4R7	4.7 $\pm$ 30%	129 (103)	1.40	1.10	1.50
CDRH4D15/SNP-5R6NC	5R6	5.6 $\pm$ 30%	141 (113)	1.20	1.00	1.40
CDRH4D15/SNP-6R8NC	6R8	6.8 $\pm$ 30%	154 (123)	1.10	0.90	1.35
CDRH4D15/SNP-8R6NC	8R6	8.6 $\pm$ 30%	203 (162)	1.05	0.85	1.15
CDRH4D15/SNP-100NC	100	10 $\pm$ 30%	215 (172)	0.90	0.75	1.10
CDRH4D15/SNP-120NC	120	12 $\pm$ 30%	279 (223)	0.85	0.65	1.00
CDRH4D15/SNP-150NC	150	15 $\pm$ 30%	391 (313)	0.80	0.60	0.85
CDRH4D15/SNP-220NC	220	22 $\pm$ 30%	559 (447)	0.60	0.50	0.75
CDRH4D15/SNP-270NC	270	27 $\pm$ 30%	600 (480)	0.55	0.45	0.70
CDRH4D15/SNP-330NC	330	33 $\pm$ 30%	777 (622)	0.50	0.40	0.60

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

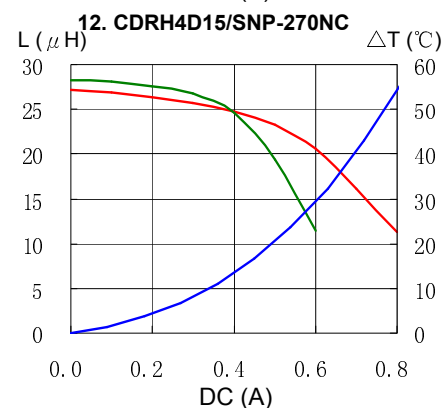
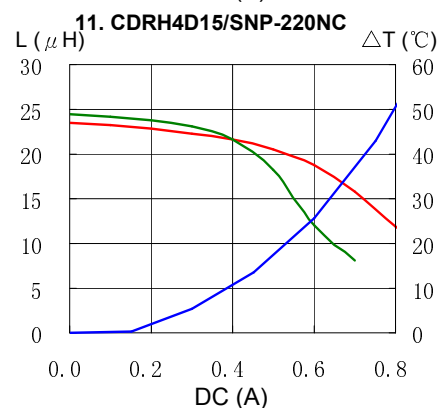
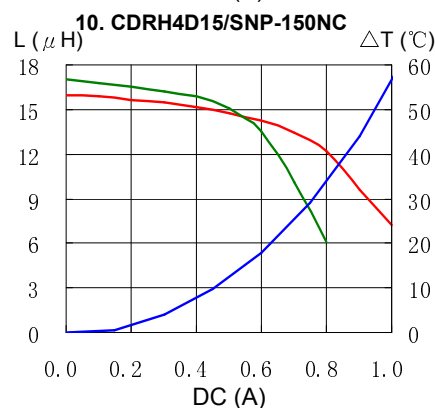
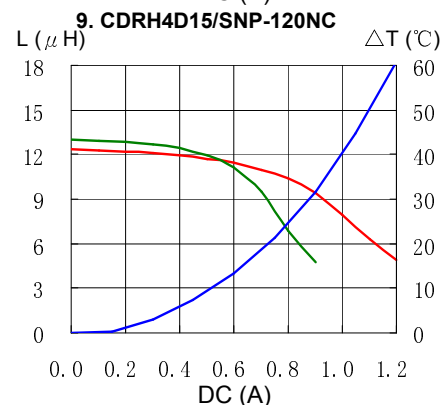
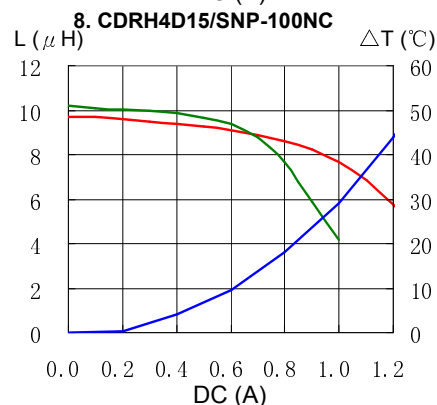
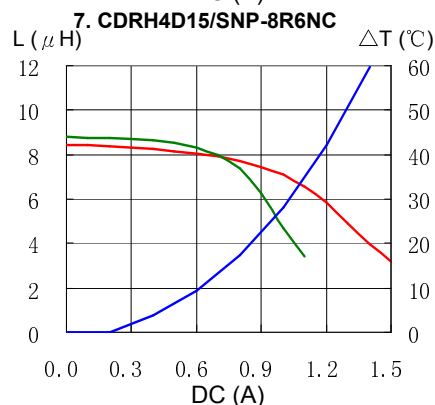
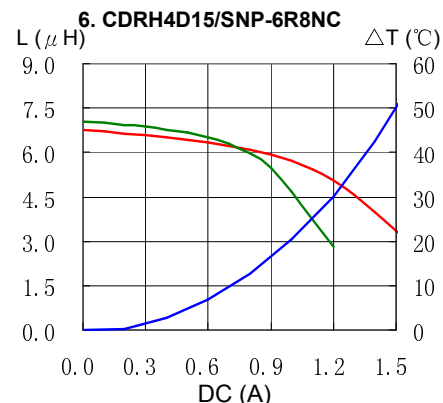
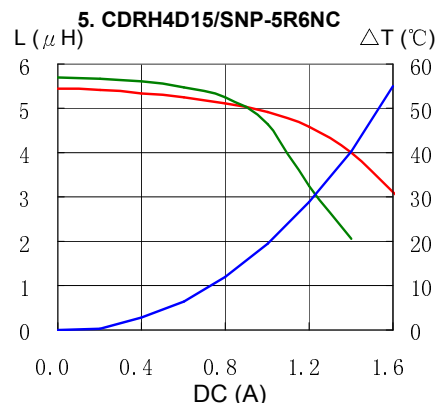
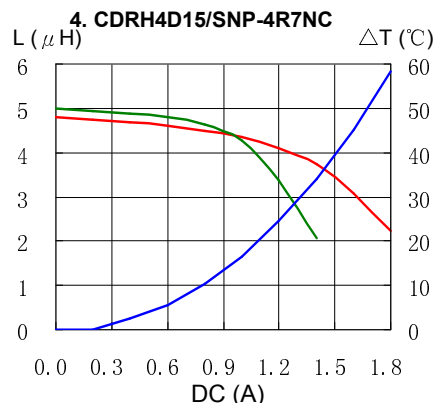
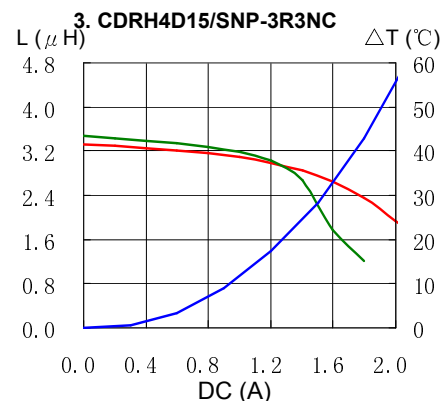
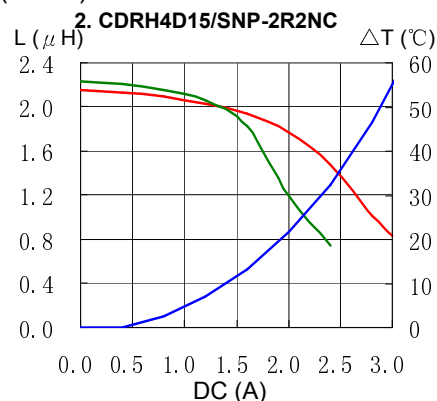
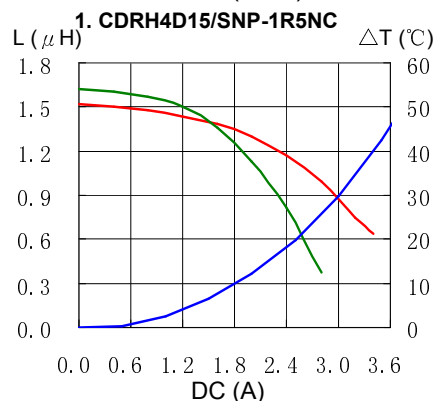
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRH4D15/S



Saturation Current & Temperature Rise Graph

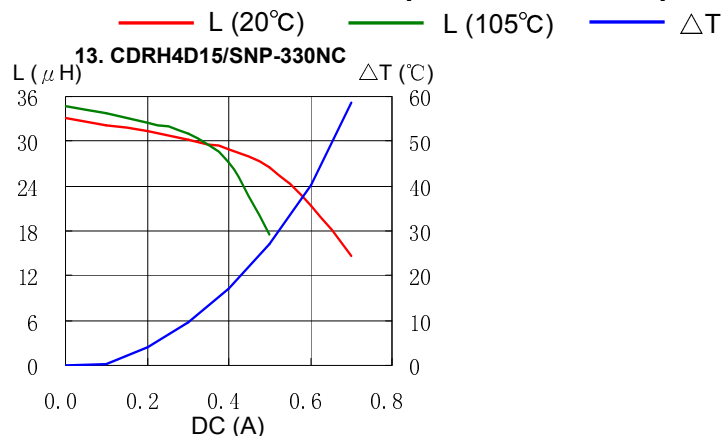
— L (20°C) — L (105°C) — ΔT



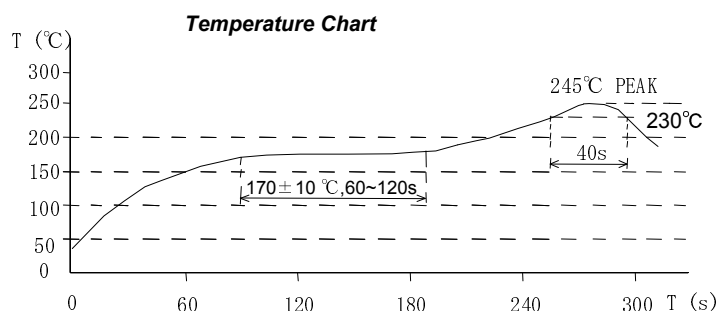
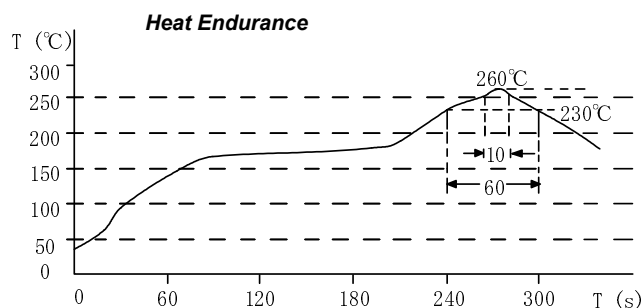
SMD Power Inductor CDRH4D15/S



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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