



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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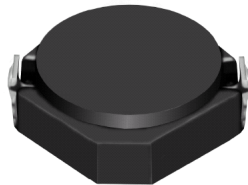
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor CDRH4D15/S



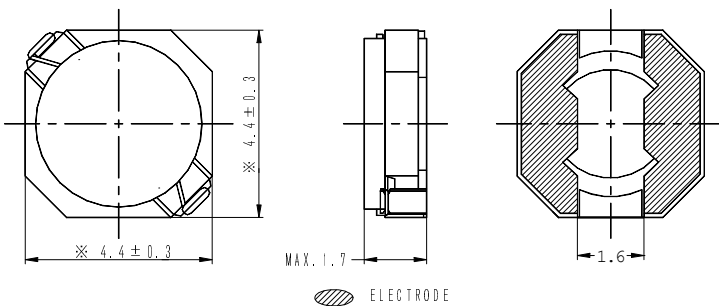
Halogen Free



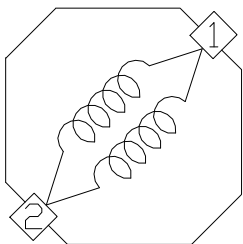
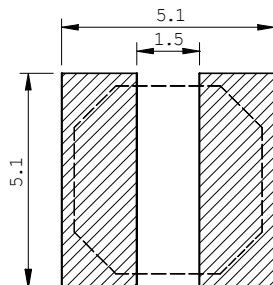
Description

- 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.

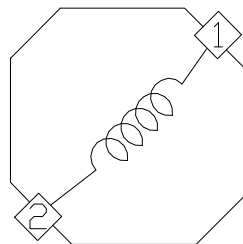
Dimension - [mm]



Land pattern and Schematics - [mm]



($1.5 \mu\text{H} \sim 5.6 \mu\text{H}$)



($6.8 \mu\text{H} \sim 33 \mu\text{H}$)

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- 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.

SMD Power Inductor

CDRH4D15/S



Electrical Characteristics

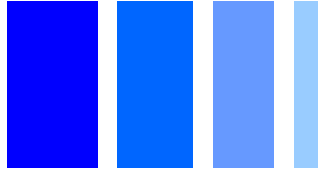
Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 25°C	at 105°C	
CDRH4D15/SNP-1R5NC	1R5	1.5 \pm 30%	41 (33)	2.30	1.90	3.40
CDRH4D15/SNP-2R2NC	2R2	2.2 \pm 30%	60 (48)	2.00	1.60	2.60
CDRH4D15/SNP-3R3NC	3R3	3.3 \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.

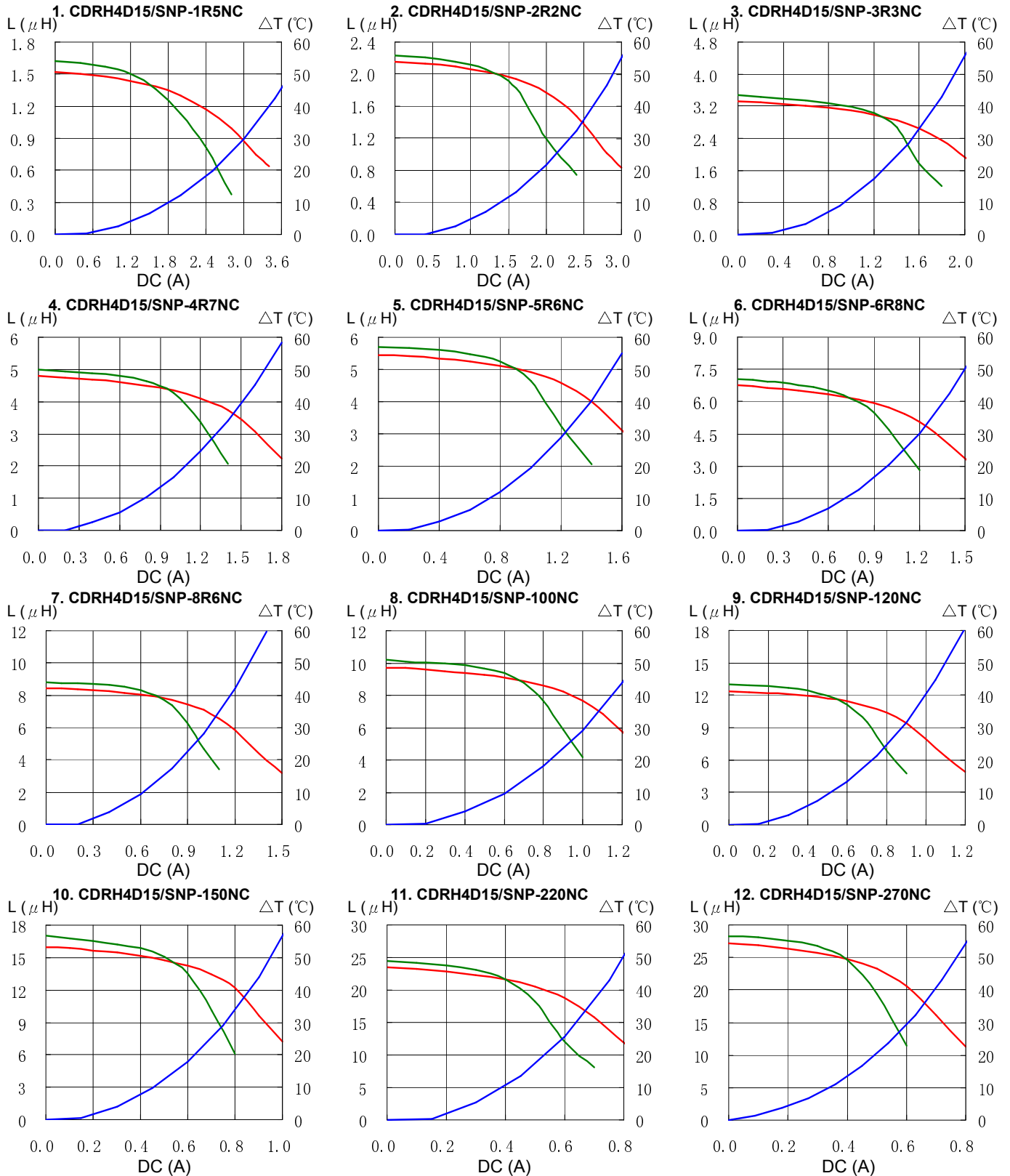
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRH4D15/S



Saturation Current & Temperature Rise Graph

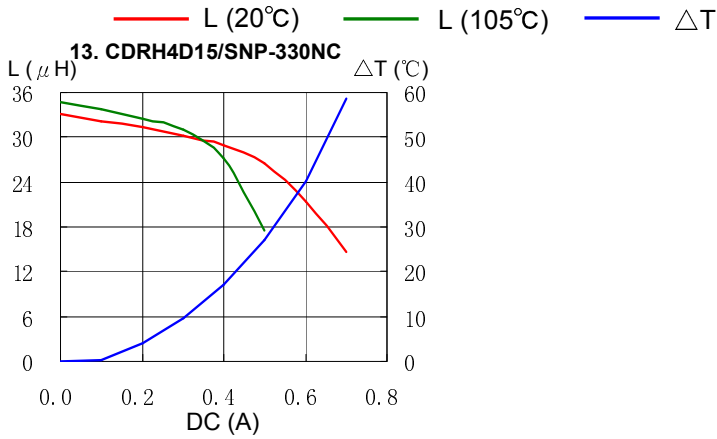
— L (20°C) — L (105°C) — ΔT



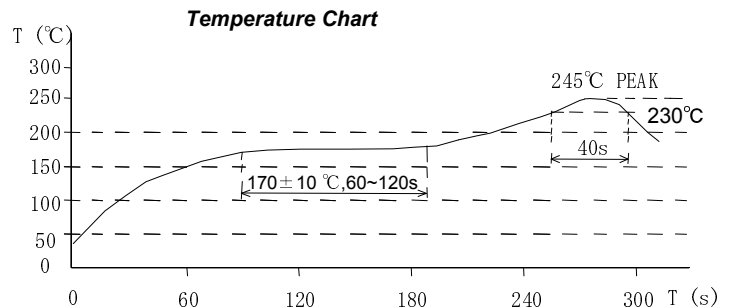
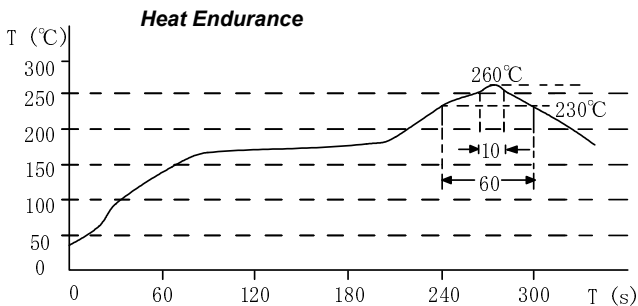
SMD Power Inductor CDRH4D15/S



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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