



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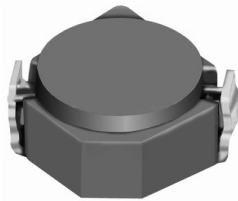
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor CDRH2D18/LD



Halogen Free



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.
- 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.

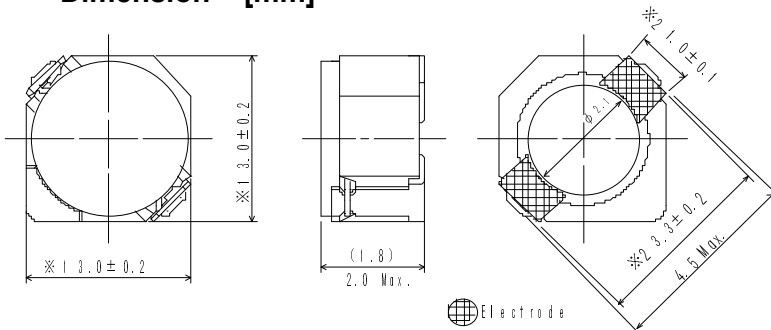
Packaging

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

Applications

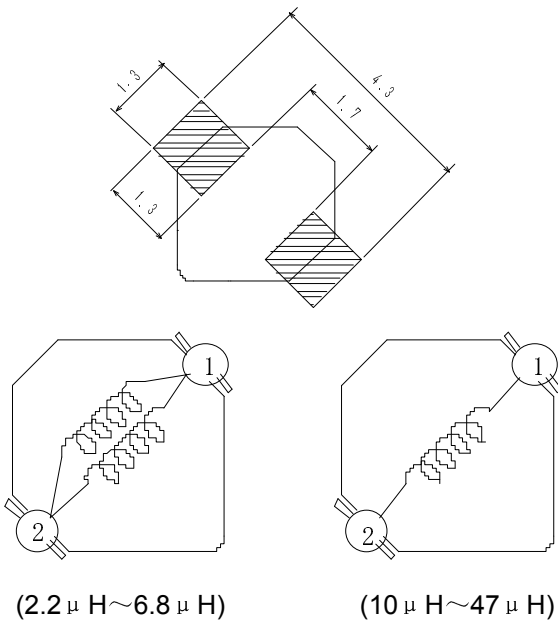
- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

Dimension - [mm]



Electrode

Land pattern and Schematics - [mm]



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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 20°C	at 100°C	
CDRH2D18/LDNP-2R2NC	C	2.2 \pm 30%	41(33)	0.85	0.67	2.30
CDRH2D18/LDNP-3R3NC	E	3.3 \pm 30%	54(43)	0.75	0.55	2.10
CDRH2D18/LDNP-4R7NC	G	4.7 \pm 30%	78(62)	0.63	0.47	1.65
CDRH2D18/LDNP-6R8NC	I	6.8 \pm 30%	106(85)	0.52	0.40	1.32
CDRH2D18/LDNP-100NC	K	10 \pm 30%	180(145)	0.43	0.33	1.00
CDRH2D18/LDNP-150NC	M	15 \pm 30%	220(175)	0.35	0.28	0.80
CDRH2D18/LDNP-220NC	O	22 \pm 30%	320(255)	0.30	0.22	0.68
CDRH2D18/LDNP-330NC	Q	33 \pm 30%	460(370)	0.24	0.18	0.56
CDRH2D18/LDNP-470NC	S	47 \pm 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 its nominal value.

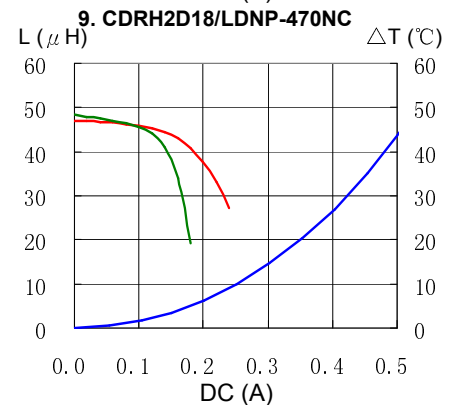
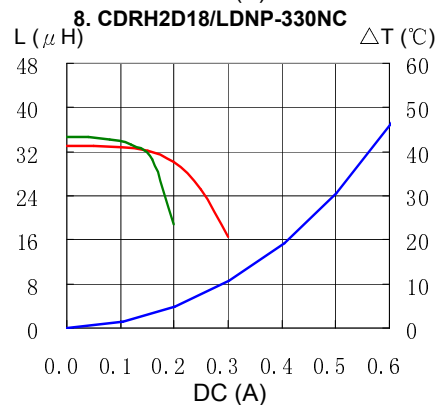
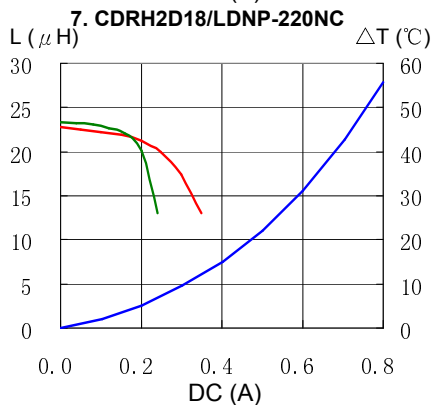
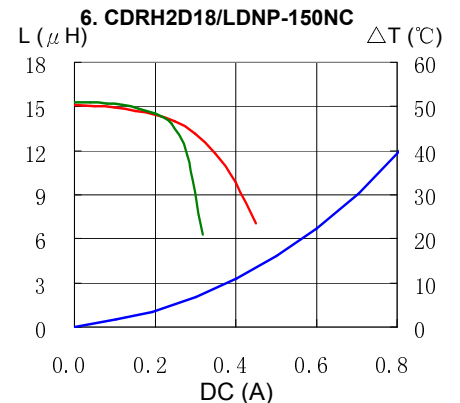
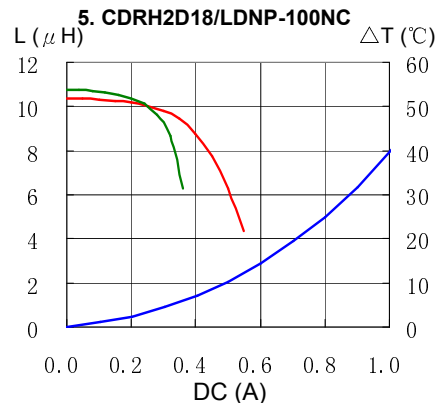
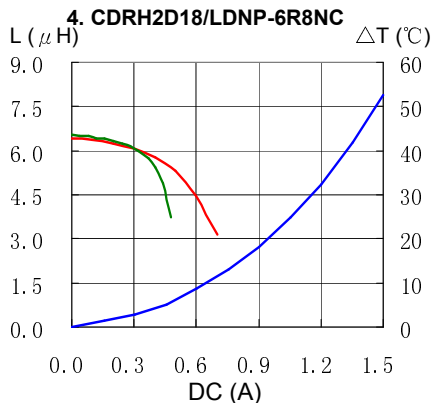
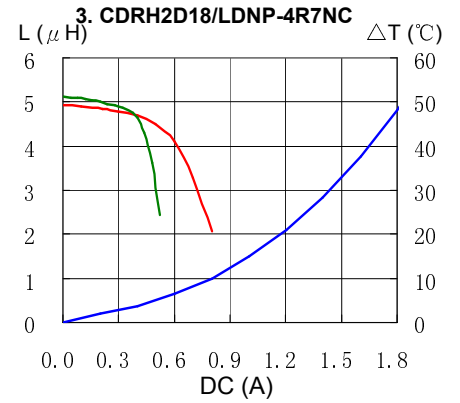
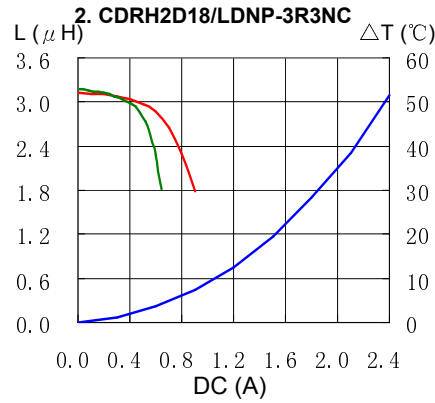
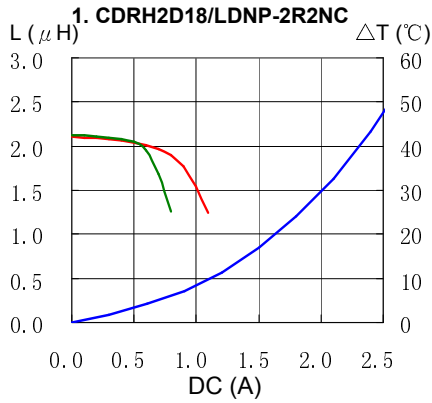
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

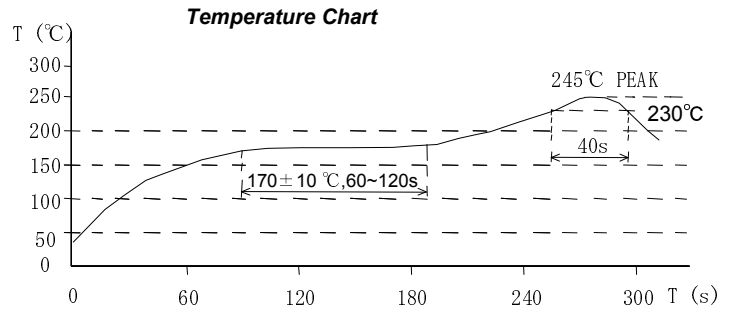
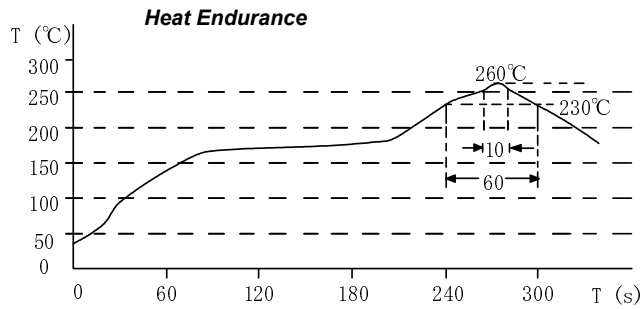
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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