

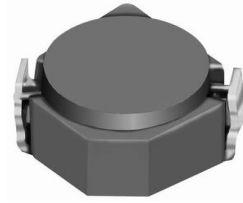
SMD Power Inductor

CDRH2D18/LD



Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 3.2 × 3.2 × 2.0 mm Max.
- Product weight: 65mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



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

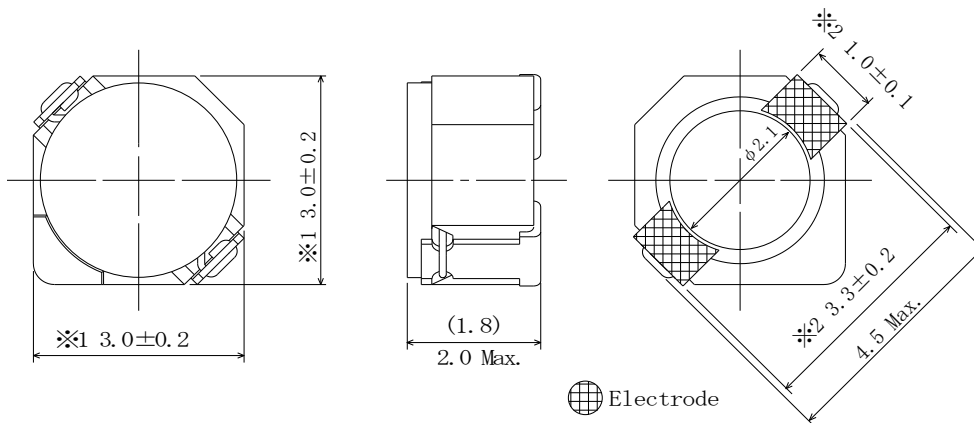
Packaging

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

Applications

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

Dimension - [mm]



※1 Not including terminal dimension.

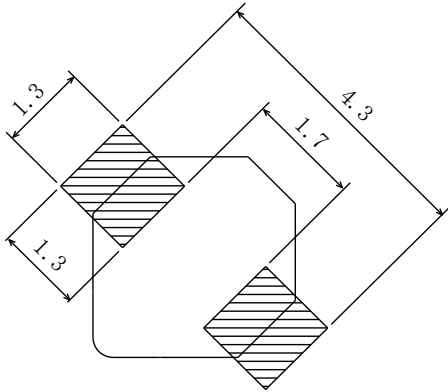
※2 Electrode dimension

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

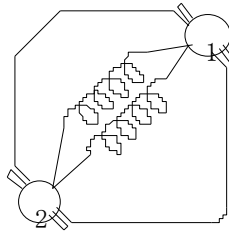
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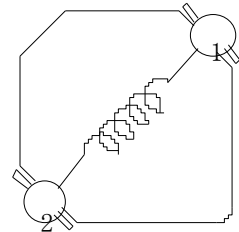
Reference Land pattern – [mm]



Connection



(2.2 μ H~6.8 μ H)



(10 μ H~47 μ H)

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Electrical Characteristics

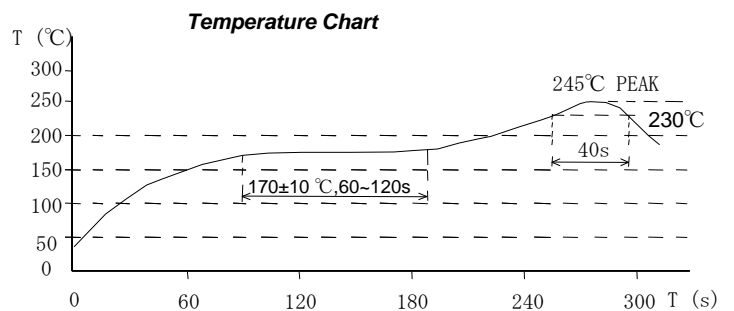
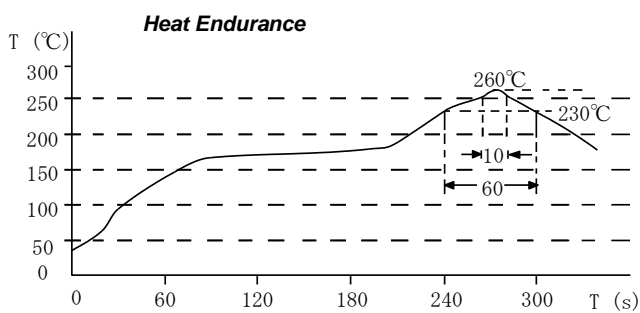
Part No.	Stamp	Inductance [within] (μ H) ※1	D.C.R. [Within] (m Ω) (at 20°C) Max. (Typ.)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) Max. (Typ.) ※3
				at 20°C	at 100°C	
CDRH2D18/LDNP-2R2NC	C	2.2 \pm 30%	41 (33)	0.85	0.67	(2.30)
CDRH2D18/LDNP-3R3NC	E	3.3 \pm 30%	54 (43)	0.75	0.55	(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 100 kHz.

※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 $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition

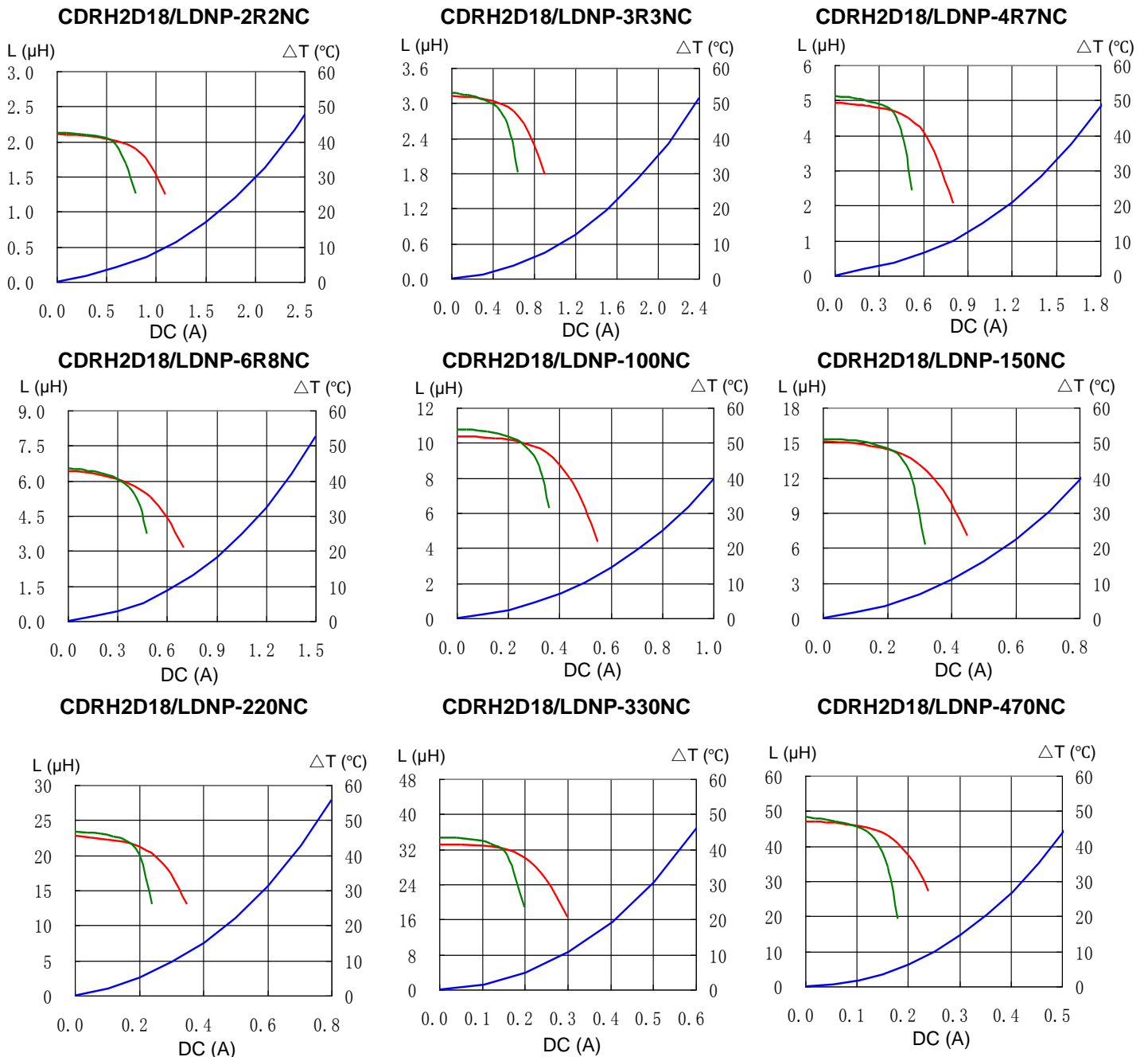


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Saturation Current & Temperature Rise Graph — L (20°C) — L (100°C) — ΔT



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