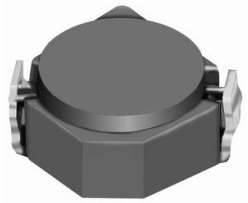
SMD Power Inductor

CDRH2D18/HP



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

Environmental Data

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

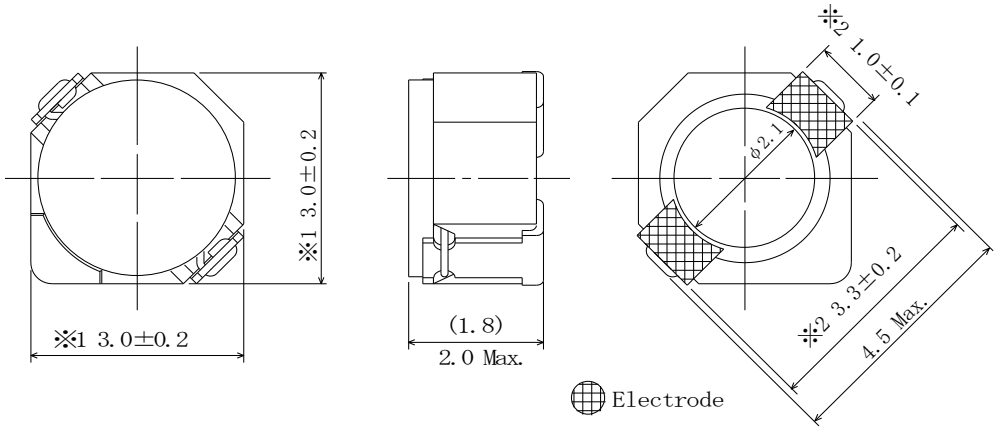
Packaging

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

Applications

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

Dimension - [mm]



※1 Not including terminal dimension.　　※2 Electrode dimension

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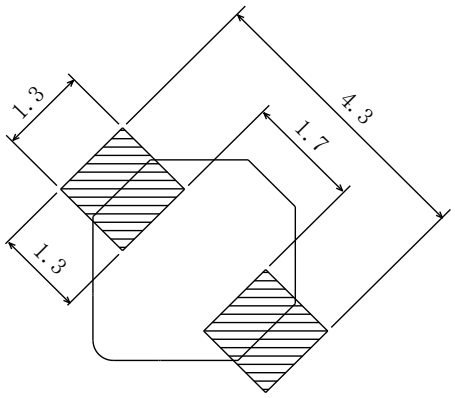
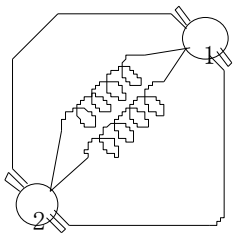
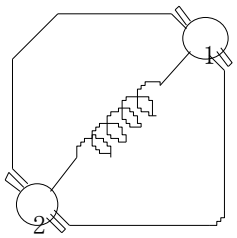
Reference Land pattern – [mm]



Connection



(0.20μH～3.3μH)



(4.7μH～15μH)

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Electrical Characteristics

Part No.	Stamp	Inductance [within] (μH) ※1	D.C.R. [Within] (mΩ) (at 20℃) Max. (Typ.)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) Max. (Typ.) ※3
				at 20℃	at 100℃	
CDRH2D18/HPNP-R20NC	N	0.20±35%	22 (17)	5.35	3.55	(4.70)
CDRH2D18/HPNP-R36NC	P	0.36±35%	29 (22)	4.62	3.00	(4.10)
CDRH2D18/HPNP-R56NC	Q	0.56±35%	33 (25)	3.75	2.76	(3.60)
CDRH2D18/HPNP-R82NC	R	0.82±35%	39 (30)	2.91	2.20	(3.30)
CDRH2D18/HPNP-1R1NC	S	1.10±35%	43 (33)	2.50	1.90	(2.90)
CDRH2D18/HPNP-1R7NC	A	1.70±30%	44 (35)	1.85	1.36	(2.20)
CDRH2D18/HPNP-2R2NC	C	2.20±30%	60 (48)	1.60	1.15	(1.90)
CDRH2D18/HPNP-3R3NC	E	3.30±30%	86 (69)	1.45	1.10	(1.55)
CDRH2D18/HPNP-4R7NC	G	4.70±30%	140 (110)	1.20	0.90	(1.20)
CDRH2D18/HPNP-6R3NC	I	6.30±30%	160 (128)	1.05	0.78	(1.15)
CDRH2D18/HPNP-100NC	K	10.0±30%	245 (195)	0.85	0.65	(0.90)
CDRH2D18/HPNP-150NC	M	15.0±30%	345 (275)	0.70	0.53	(0.64)

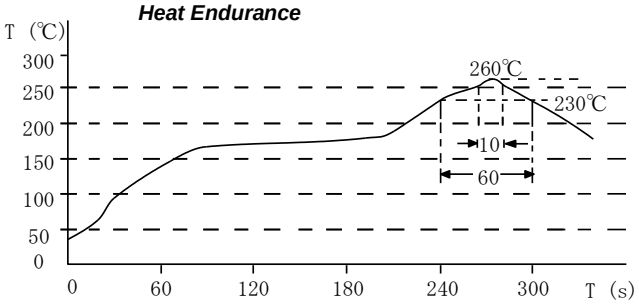
※1 Inductance measuring condition: 0.20μH～1.10μH at 7.96MHz; 1.70μH～15.0μH at 100kHz

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

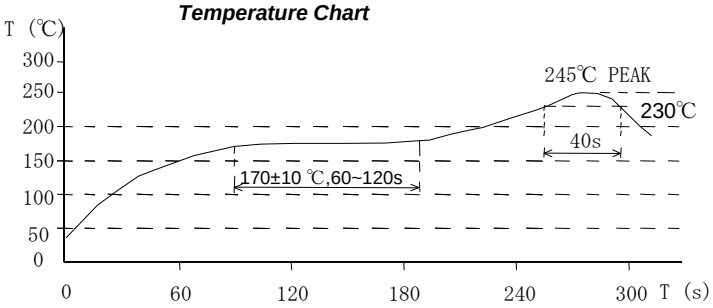
※3 Temperature rise current: The value of D.C. current when the temperature rise is △t＝40℃(Ta＝20℃).

Solder Reflow Condition

Heat Endurance



Temperature Chart



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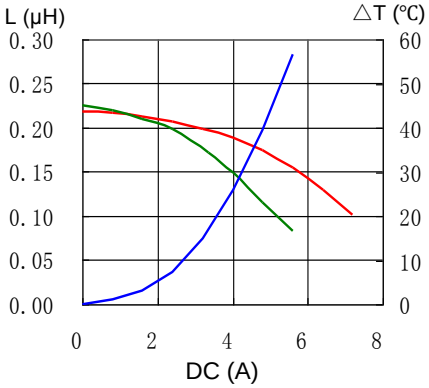
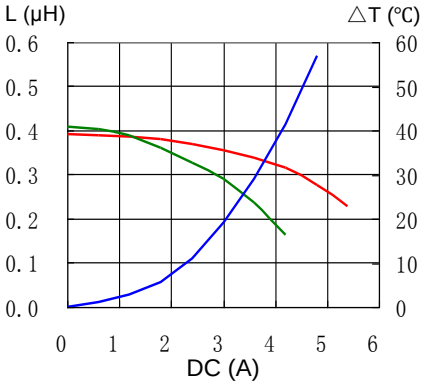
CDRH2D18/HP

Saturation Current & Temperature Rise Graph — L (20℃) — L (100℃) — ⊿T

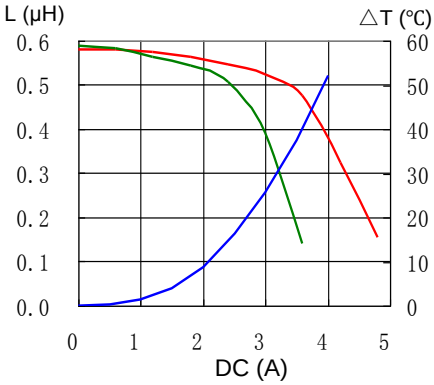
CDRH2D18/HPNP-R20NC



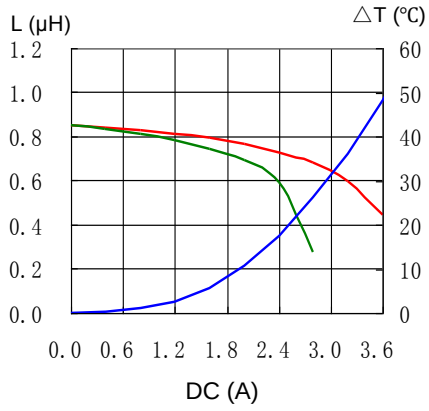
CDRH2D18/HPNP-R36NC



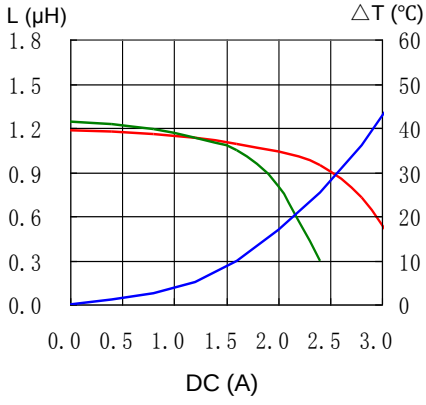
CDRH2D18/HPNP-R56NC



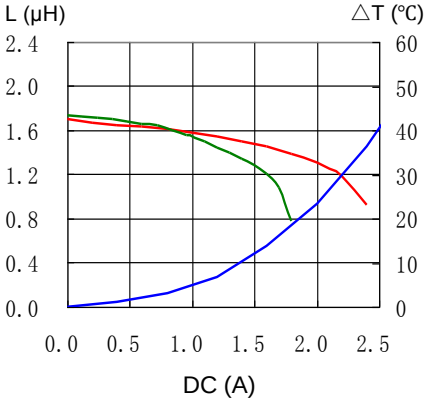
CDRH2D18/HPNP-R82NC



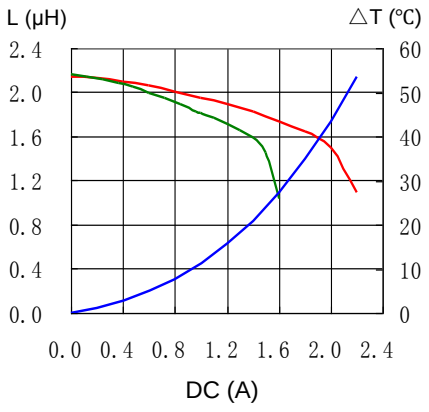
CDRH2D18/HPNP-1R1NC



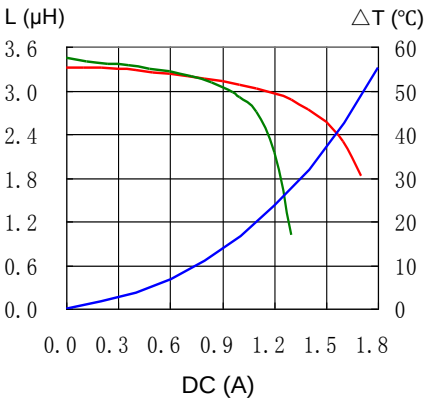
CDRH2D18/HPNP-1R7NC



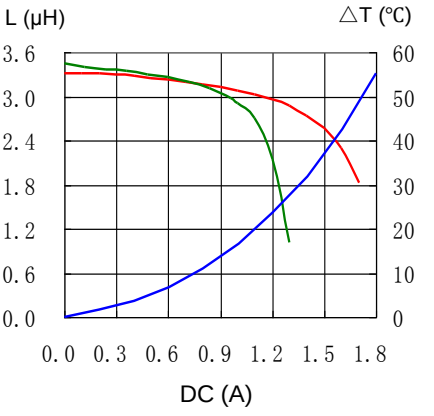
CDRH2D18/HPNP-2R2NC



CDRH2D18/HPNP-3R3NC



CDRH2D18/HPNP-4R7NC



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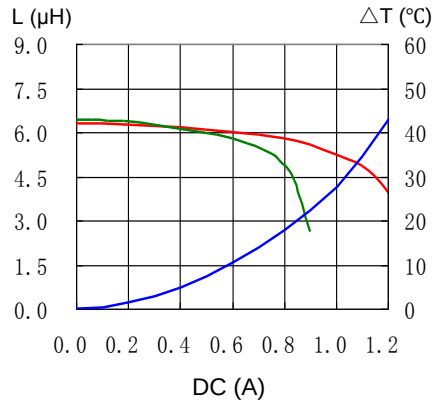
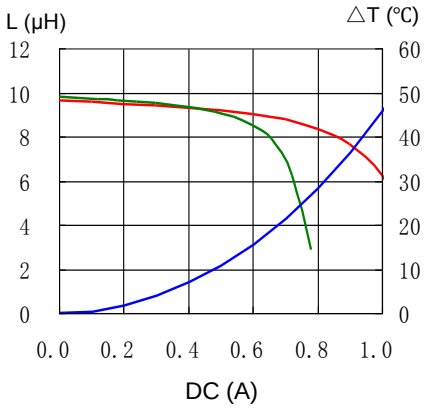
CDRH2D18/HP

Saturation Current & Temperature Rise Graph — L (20℃) — L (100℃) — ⊿T

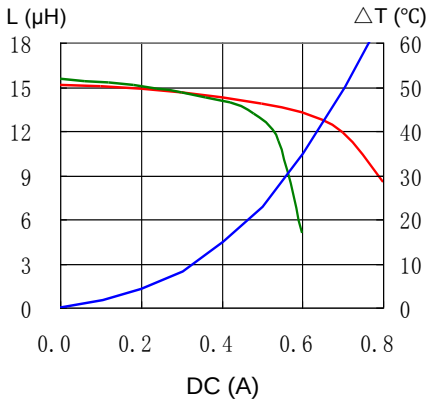
CDRH2D18/HPNP-6R3NC



CDRH2D18/HPNP-100NC



CDMC10D48L150NP-470MC



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