

SMD Power Inductor CDRH40D18R



Under Development



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.2 × 4.2 × 2.0mm Max.
- Product weight: 110mg (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.

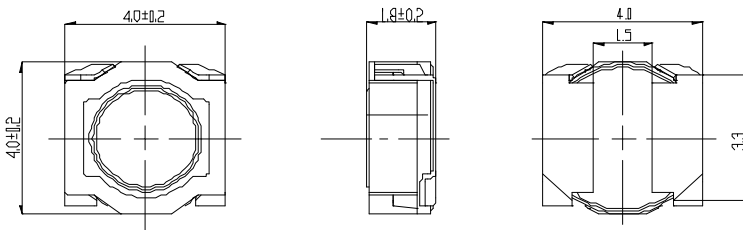
Packaging

- Carrier tape and reel packaging

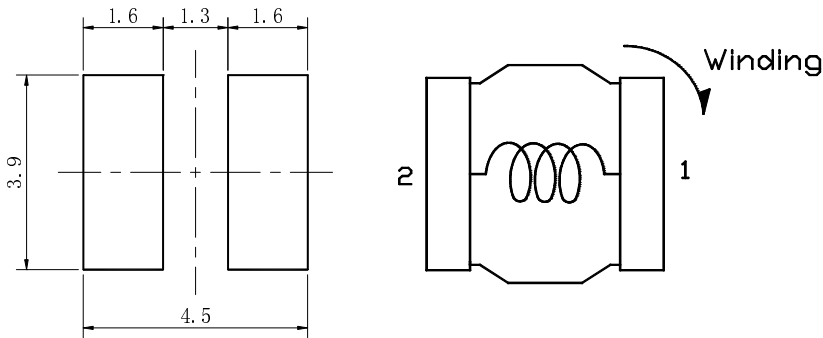
Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part name	Stamp	Inductance [μ H] ※1 [Within]	D.C.R. (m Ω) [Max.] (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				(at 20°C)	(at 105°C)	
CDRH40D18RNP-1R8NC	D	1.8 \pm 30%	48.4(38.7)	2.10	1.80	2.60
CDRH40D18RNP-2R2NC	E	2.2 \pm 30%	55.4(44.3)	1.80	1.50	2.40
CDRH40D18RNP-3R3NC	G	3.3 \pm 30%	79.5(63.6)	1.45	1.25	2.00
CDRH40D18RNP-4R7NC	J	4.7 \pm 30%	99.5(79.6)	1.25	1.00	1.70
CDRH40D18RNP-6R8NC	L	6.8 \pm 30%	144(120)	1.00	0.85	1.35
CDRH40D18RNP-100MC	N	10 \pm 20%	185(154)	0.85	0.70	1.25
CDRH40D18RNP-150MC	Q	15 \pm 20%	306(255)	0.70	0.60	0.90
CDRH40D18RNP-220MC	S	22 \pm 20%	443(369)	0.60	0.50	0.73
CDRH40D18RNP-270MC	T	27 \pm 20%	588(490)	0.50	0.43	0.62
CDRH40D18RNP-330MC	U	33 \pm 20%	671(559)	0.45	0.40	0.55

※1 Inductance measuring condition at 100kHz .

※2 Saturation current: The value of DC current when the inductance decreases to 70% of its nominal.

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

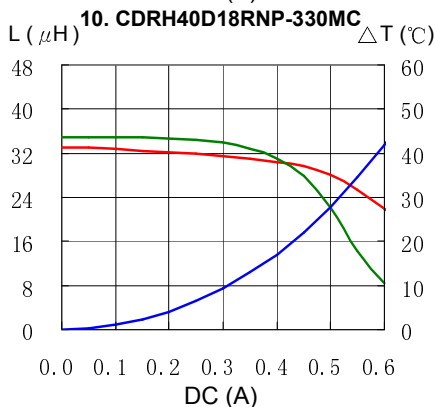
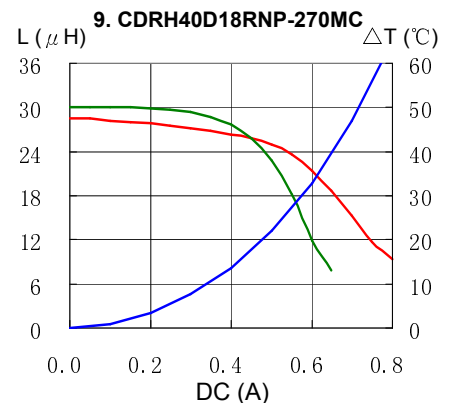
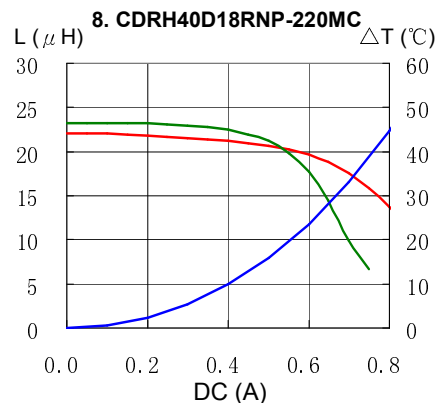
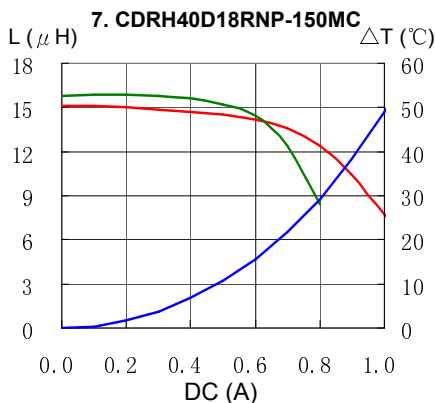
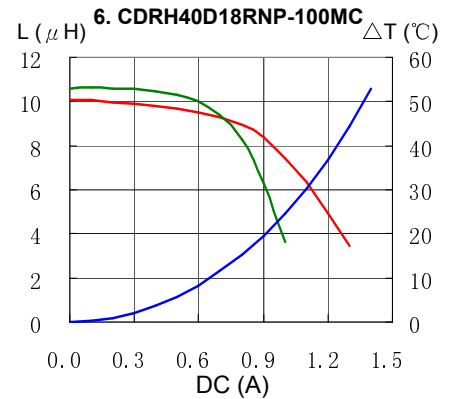
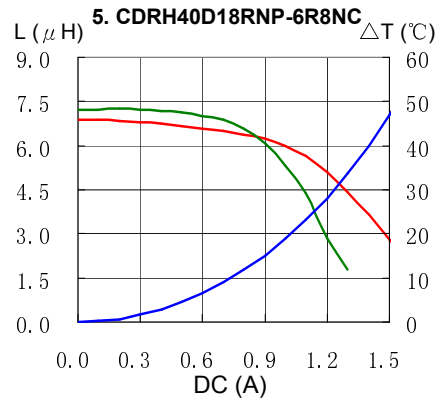
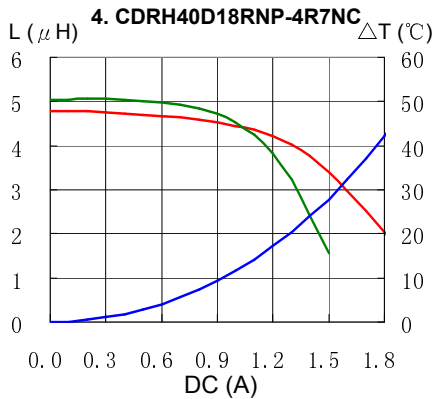
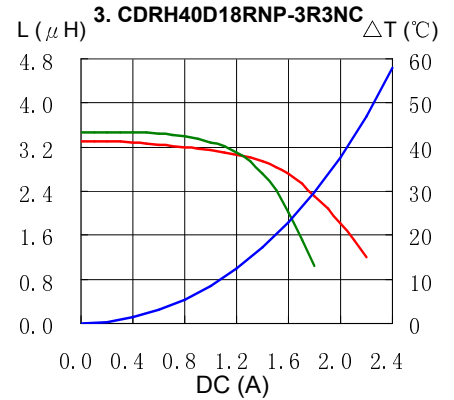
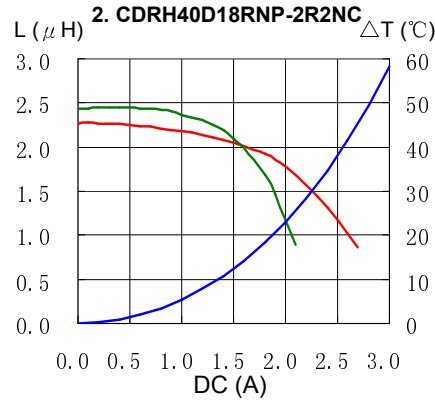
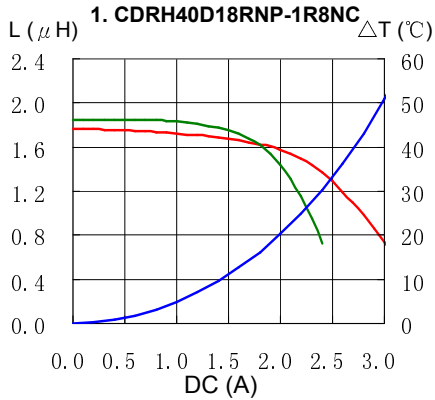
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



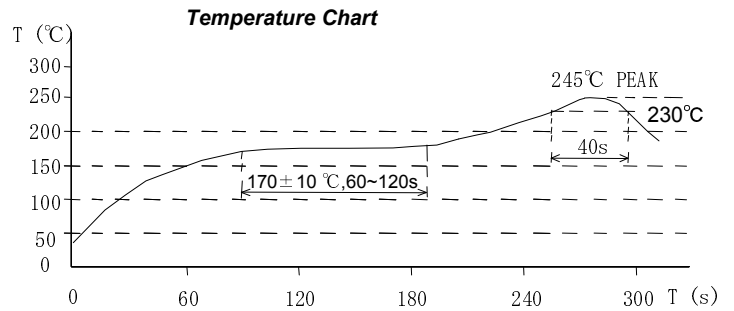
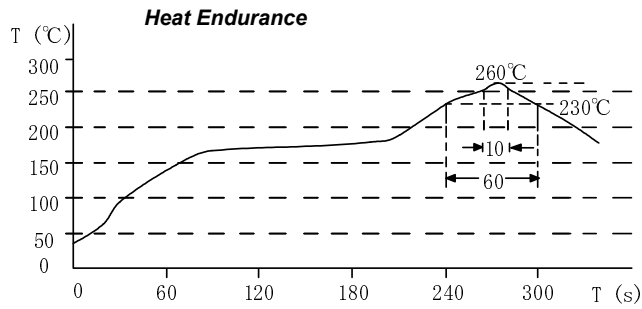
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Solder Reflow Condition



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