

SMD Power Inductor CDRH40D26R



Under Development



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.2 × 4.2 × 2.8mm Max.
- Product weight: 150mg (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.

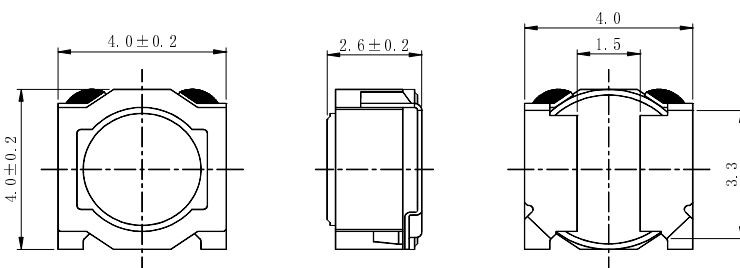
Packaging

- Carrier tape and reel packaging

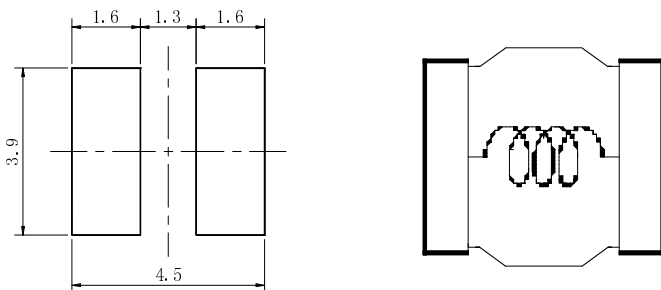
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part name	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 105°C)	
CDRH40D26RNP-1R8NC	1.8 \pm 30%	42.1(33.7)	2.35	1.95	2.90
CDRH40D26RNP-2R4NC	2.4 \pm 30%	46.1(36.9)	2.20	1.85	2.60
CDRH40D26RNP-3R3NC	3.3 \pm 30%	57.5(46.0)	1.85	1.55	2.50
CDRH40D26RNP-3R9NC	3.9 \pm 30%	83.3(66.6)	1.70	1.45	1.80
CDRH40D26RNP-4R7NC	4.7 \pm 30%	91.4(73.1)	1.55	1.25	1.75
CDRH40D26RNP-6R8NC	6.8 \pm 30%	119(95.0)	1.30	1.10	1.60
CDRH40D26RNP-100MC	10 \pm 20%	166(138)	1.05	0.85	1.35
CDRH40D26RNP-150MC	15 \pm 20%	260(217)	0.85	0.69	1.05
CDRH40D26RNP-220MC	22 \pm 20%	320(267)	0.70	0.60	0.95
CDRH40D26RNP-330MC	33 \pm 20%	524(437)	0.55	0.45	0.65
CDRH40D26RNP-470MC	47 \pm 20%	764(637)	0.50	0.40	0.55

※1 Inductance measuring condition at 100kHz .

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

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

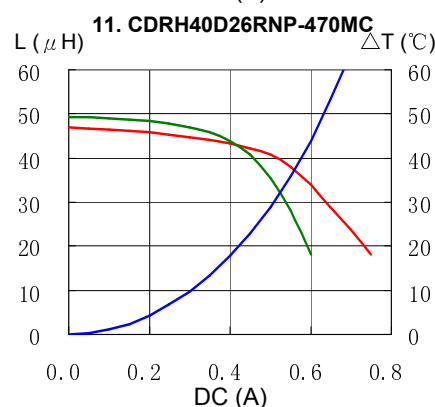
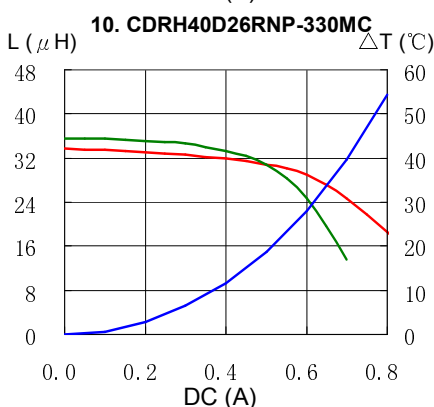
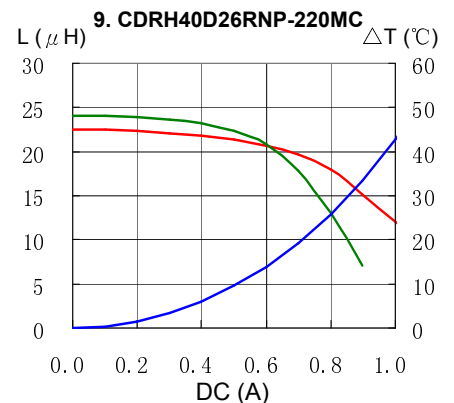
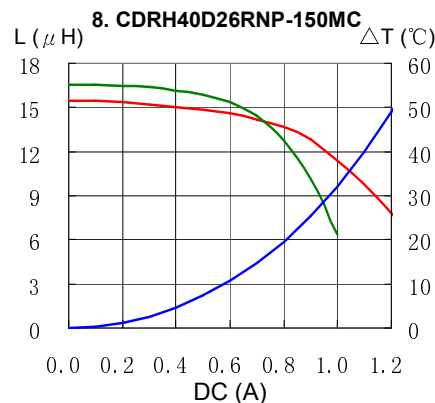
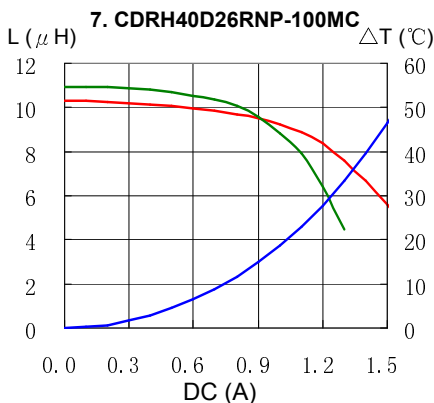
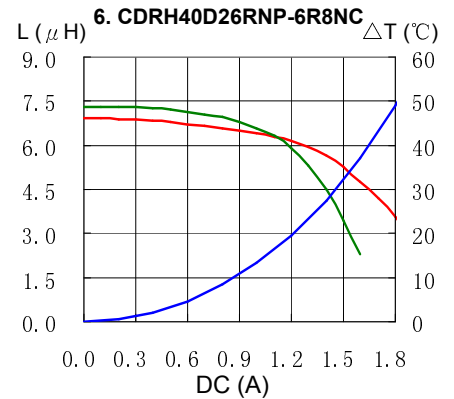
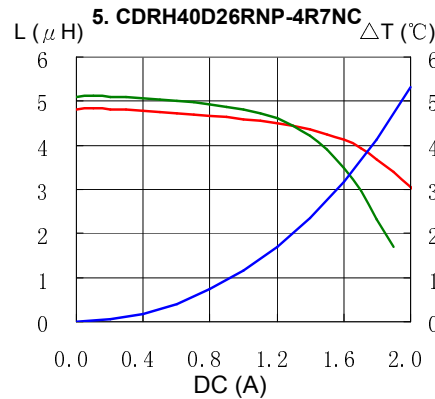
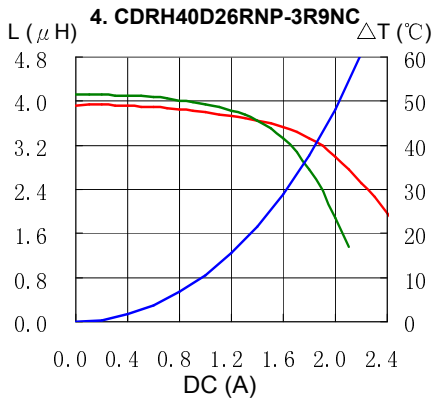
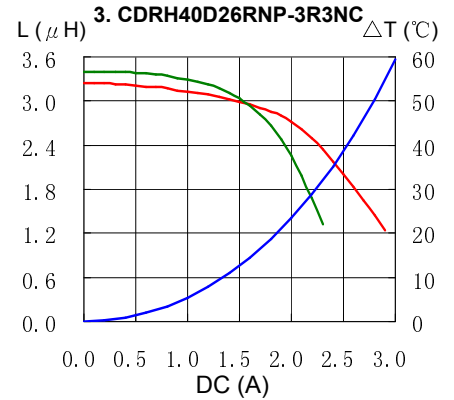
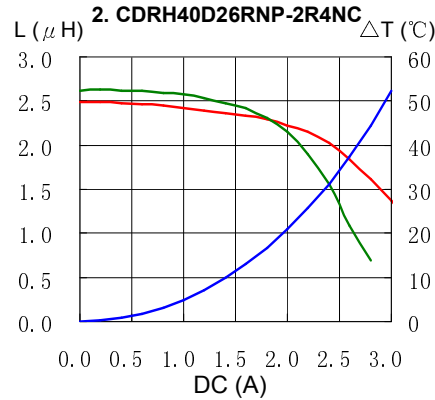
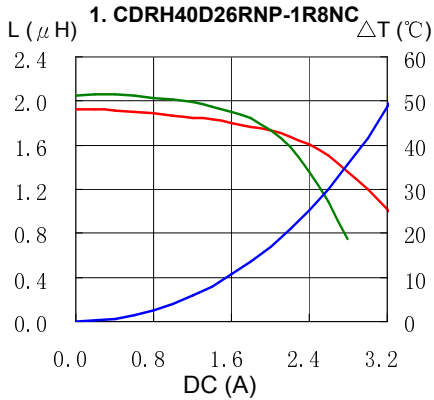
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



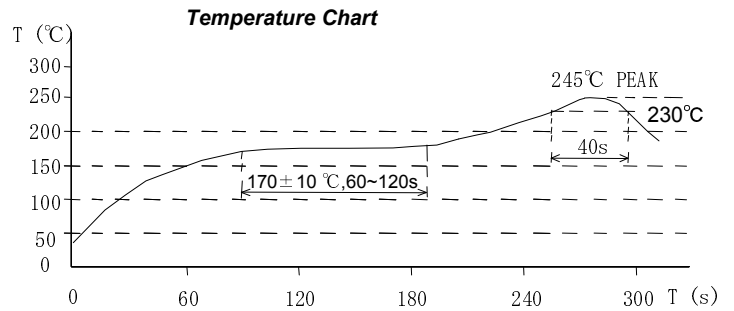
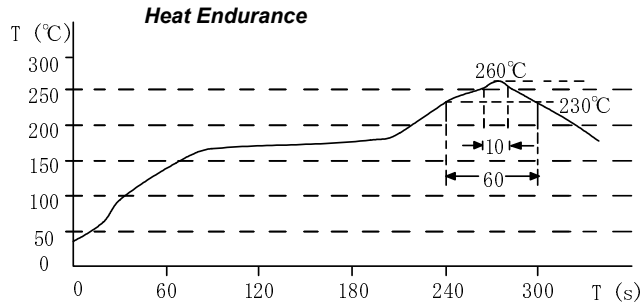
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Solder Reflow Condition



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