

SMD Power Inductor CDRH70D43DMN



Under Development



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.3 × 7.3 × 4.5 mm Max.
- Product weight: 0.75g(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.

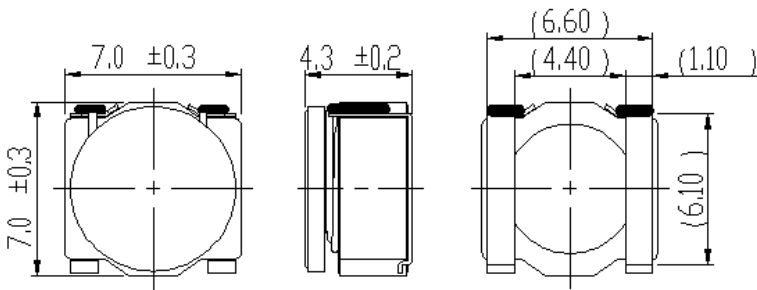
Packaging

- Carrier tape and reel packaging

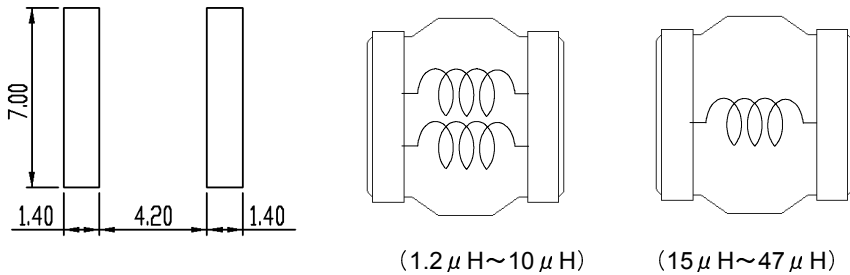
Applications

- Ideally used in Hard disk-related, power supply for TV and game machine etc.

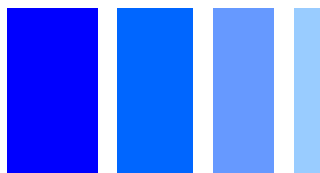
Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

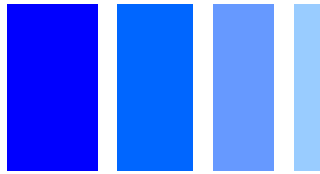
Part Name	Stamp	Inductance [within] ※ 1	D.C.R. (mΩ) [Max.] (Typ.)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				at 20°C	at 105°C	
CDRH70D43DMNNP-1R2PC	1R2	1.2 μH ±25%	13.7(11)	11.40	9.00	7.80
CDRH70D43DMNNP-2R4PC	2R4	2.4 μH ±25%	15.6(12.5)	8.30	6.60	6.50
CDRH70D43DMNNP-3R3PC	3R3	3.3 μH ±25%	19.4(15.5)	7.20	5.80	5.60
CDRH70D43DMNNP-4R3PC	4R3	4.3 μH ±25%	23.8(19)	6.40	5.00	4.70
CDRH70D43DMNNP-6R2MC	6R2	6.2 μH ±20%	35.0(28)	5.10	4.20	3.80
CDRH70D43DMNNP-100MC	100	10.0 μH ±20%	52.5(42)	4.00	3.10	2.80
CDRH70D43DMNNP-150MC	150	15.0 μH ±20%	72.5(58)	3.30	2.70	2.30
CDRH70D43DMNNP-220MC	220	22.0 μH ±20%	106(85)	2.70	2.20	1.80
CDRH70D43DMNNP-330MC	330	33.0 μH ±20%	137(110)	2.20	1.70	1.60
CDRH70D43DMNNP-470MC	470	47.0 μH ±20%	200(160)	1.85	1.50	1.30

※1. Inductance Measuring condition: at 100kHz.

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

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

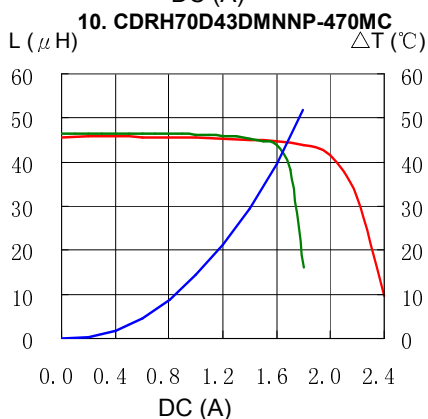
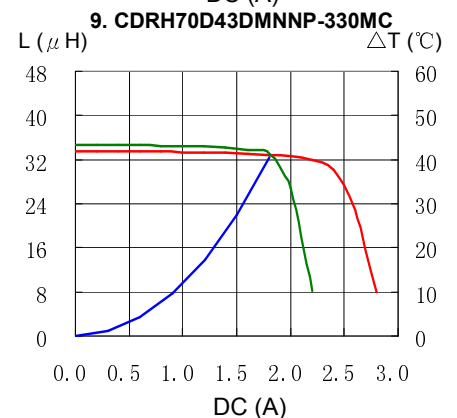
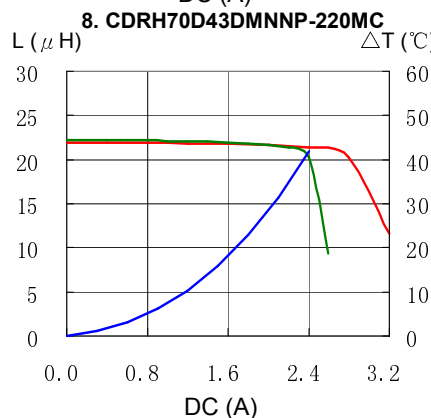
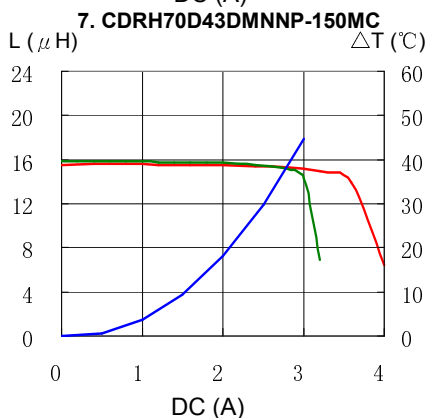
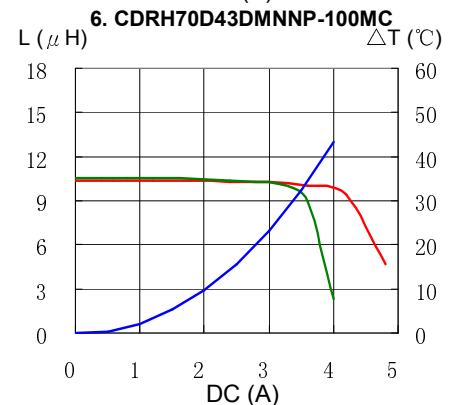
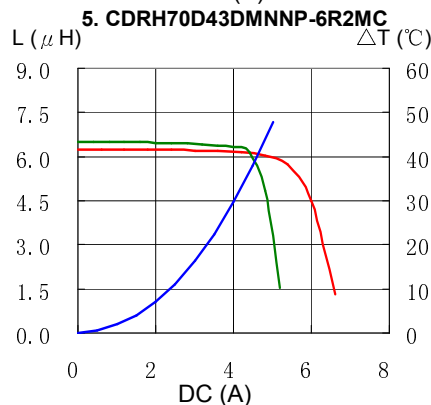
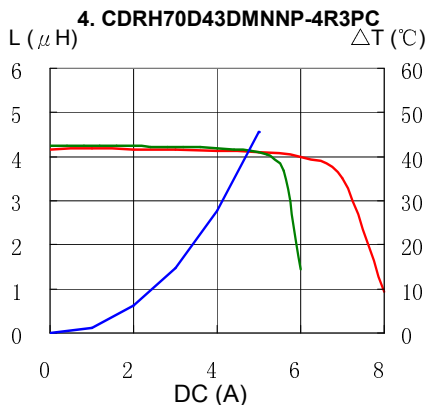
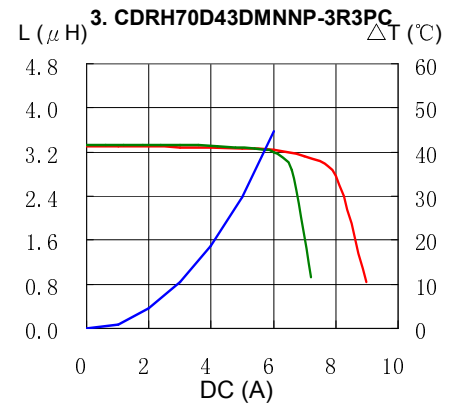
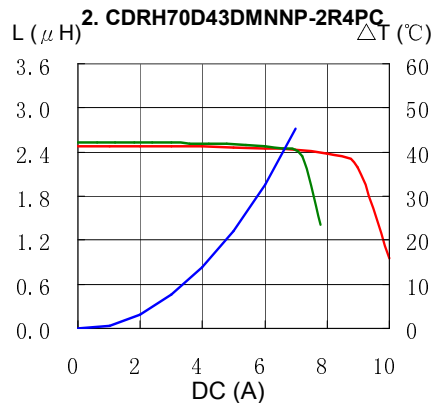
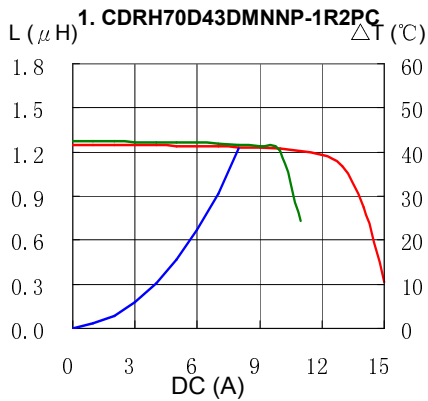
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



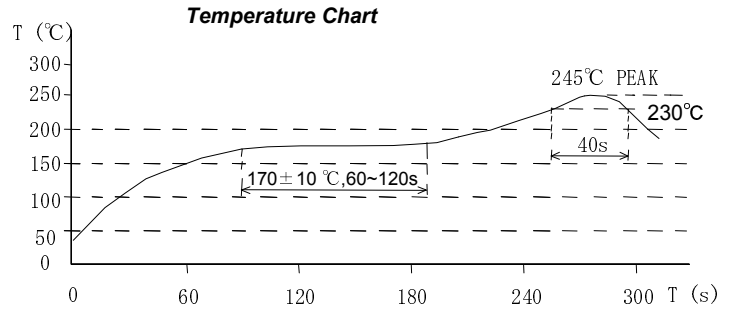
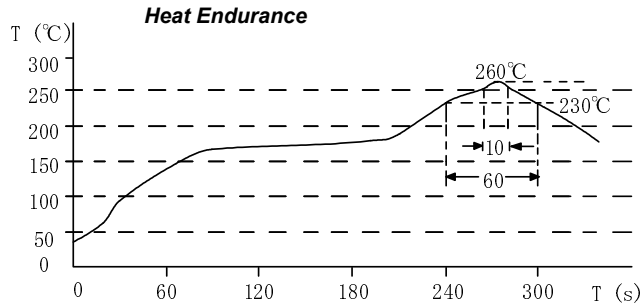
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Solder Reflow Condition



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