

SMD Power Inductor CDRH70D43D



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Under Development



**Halogen
Free**



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.
- 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.

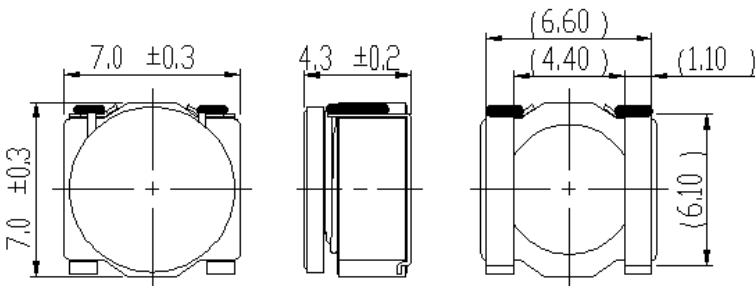
Packaging

- Carrier tape and reel packaging

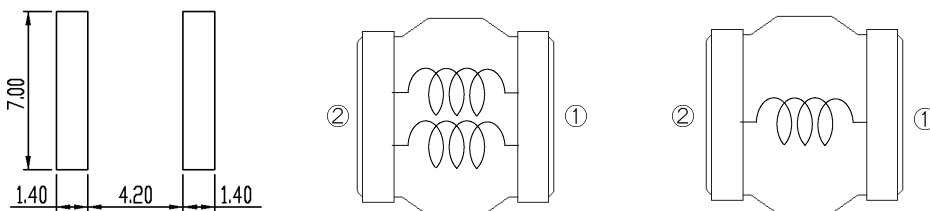
Applications

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

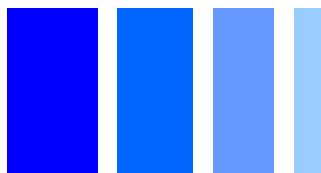
Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

Part Name	Stamp	Inductance (uH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				at 20°C	at 105°C	
CDRH70D43DNP-2R0PC	2R0	2.0 μH ±25%	14.4(11.5)	6.60	5.50	7.60
CDRH70D43DNP-3R6PC	3R6	3.6 μH ±25%	19.4(15.5)	4.80	4.00	6.00
CDRH70D43DNP-4R7PC	4R7	4.7 μH ±25%	23.8(19)	4.20	3.30	5.20
CDRH70D43DNP-7R5MC	7R5	7.5 μH ±20%	35.0(28)	3.50	2.80	4.00
CDRH70D43DNP-100MC	100	10.0 μH ±20%	42.5(34)	2.90	2.40	3.60
CDRH70D43DNP-150MC	150	15.0 μH ±20%	63.1(50.5)	2.40	2.00	2.70
CDRH70D43DNP-220MC	220	22.0 μH ±20%	85(68)	2.00	1.65	2.25
CDRH70D43DNP-330MC	330	33.0 μH ±20%	105(84)	1.60	1.35	2.15
CDRH70D43DNP-470MC	470	47.0 μH ±20%	155(124)	1.30	1.10	1.65
CDRH70D43DNP-680MC	680	68.0 μH ±20%	241(193)	1.10	0.90	1.30
CDRH70D43DNP-101MC	101	100.0 μH ±20%	362(290)	0.90	0.78	1.02

※1. Measuring condition: at 100kHz.

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

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

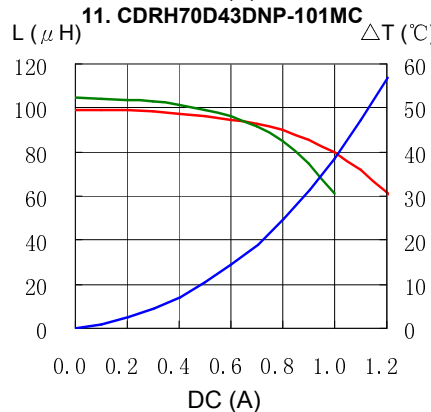
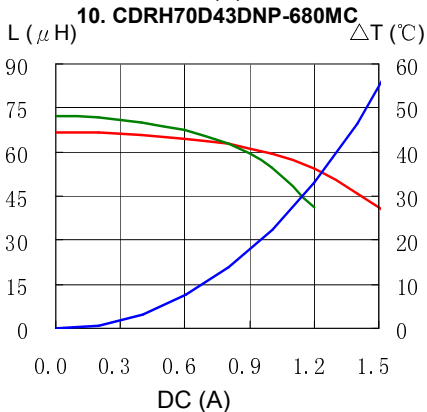
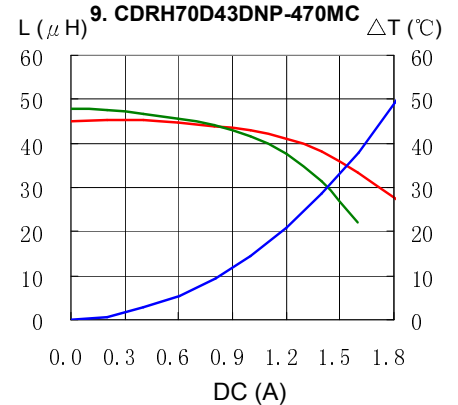
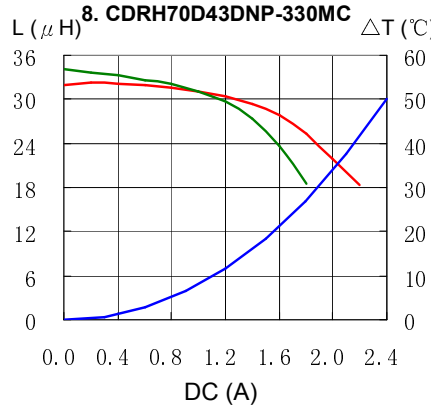
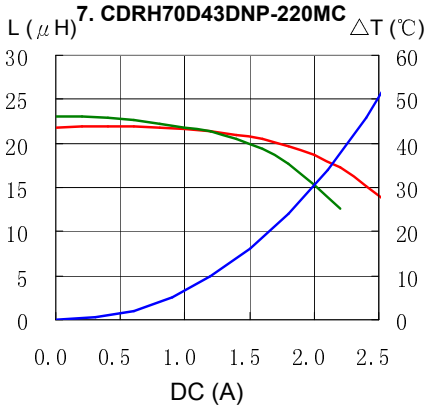
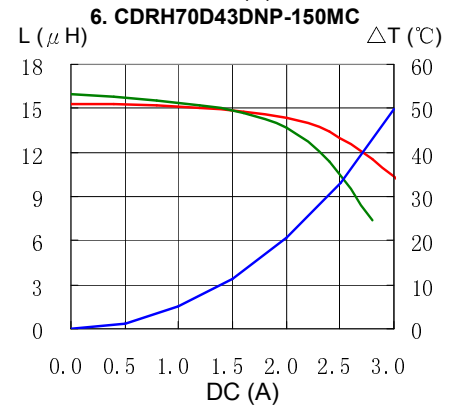
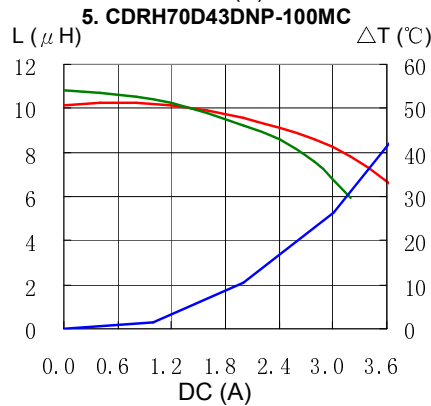
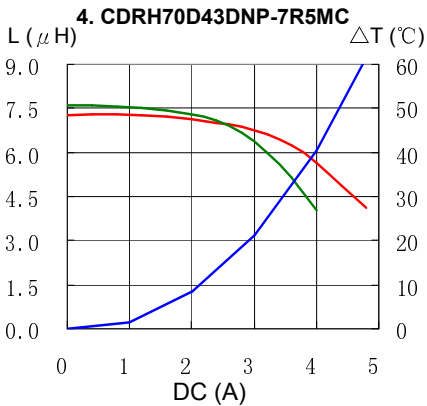
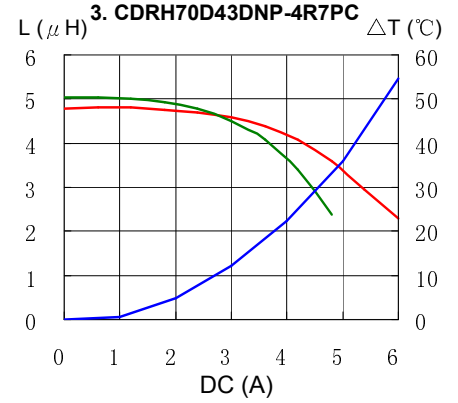
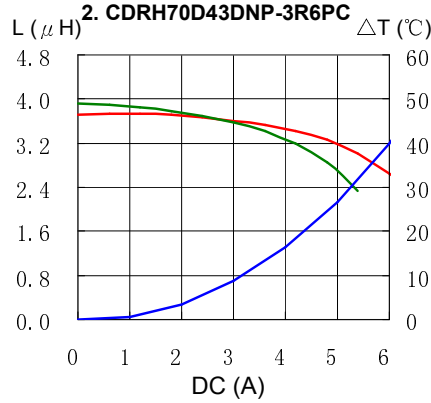
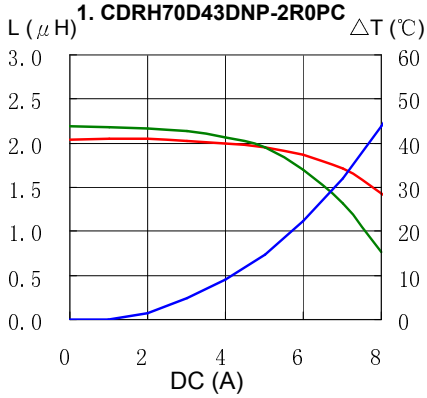
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



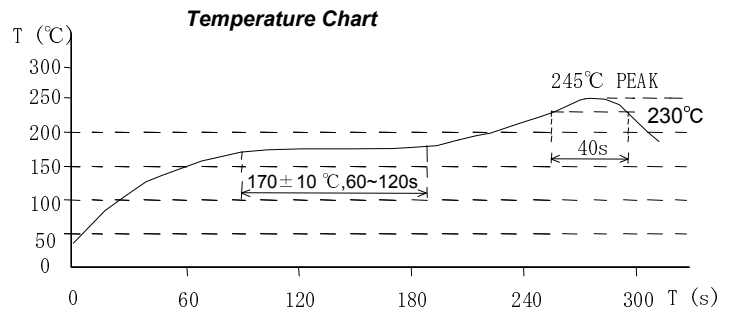
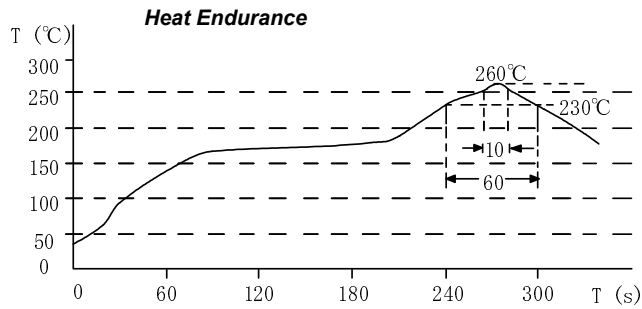
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Solder Reflow Condition



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