

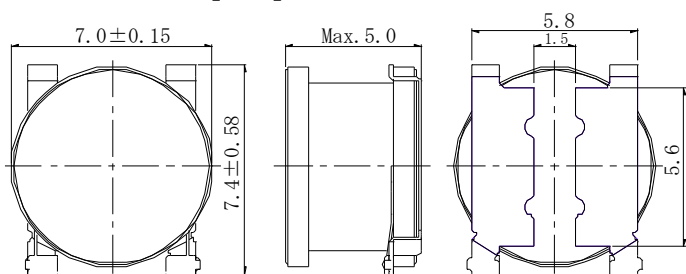
SMD Power Inductor CDH70D48



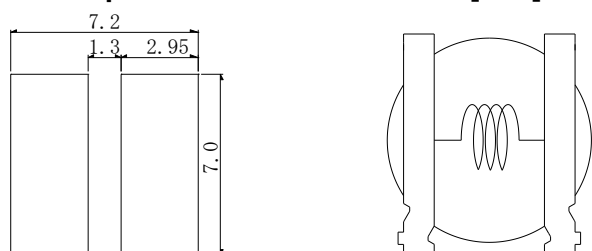
Description

- Ferrite drum core construction
- Magnetically unshielded
- L × W × H: 7.98 × 7.15 × 5.0 mm Max.
- Product weight: 0.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



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
- 13" diameter reel
- 1000pcs per reel

Applications

- Ideally used in input filter of LED lighting.

Electrical Characteristics

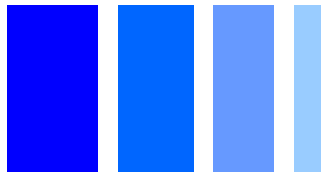
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (Ω) [Max.] (typ.) (at 20°C)	Saturation current (mA) ※2		Temperature rise current (mA) ※3
				at 20°C	at 105°C	
CDH70D48NP-101K	101	100±10%	0.38(0.30)	860	710	910
CDH70D48NP-151K	151	150±10%	0.54(0.43)	700	580	740
CDH70D48NP-221K	221	220±10%	0.83(0.66)	550	450	580
CDH70D48NP-331K	331	330±10%	1.18(0.94)	470	390	500
CDH70D48NP-471K	471	470±10%	1.63(1.36)	370	310	400
CDH70D48NP-681K	681	680±10%	2.30(1.92)	310	260	330
CDH70D48NP-102K	102	1000±10%	3.56(2.97)	250	210	260
CDH70D48NP-152K	152	1500±10%	6.02(5.02)	210	170	200
CDH70D48NP-222K	222	2200±10%	8.63(7.19)	175	140	165
CDH70D48NP-332K	332	3300±10%	13.6(11.3)	145	110	130
CDH70D48NP-472K	472	4700±10%	20.4(17.0)	120	95	105

※1. Measuring condition :at 100kHz

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

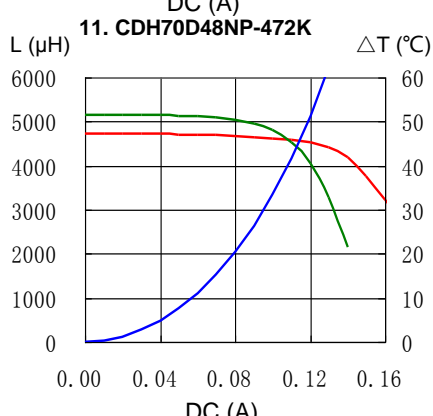
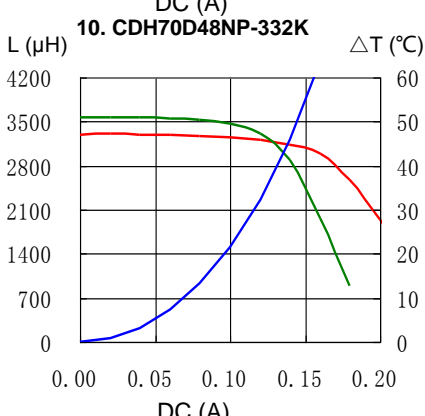
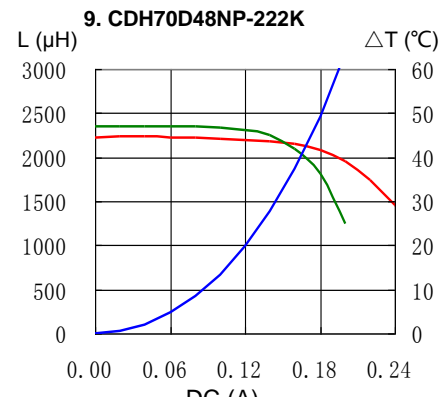
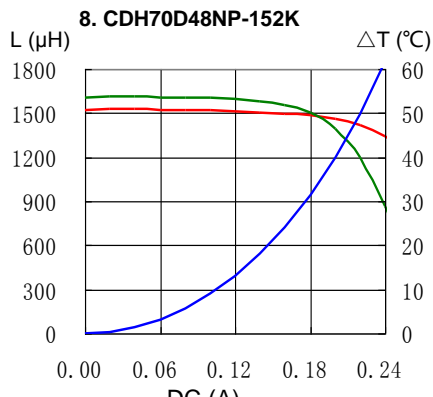
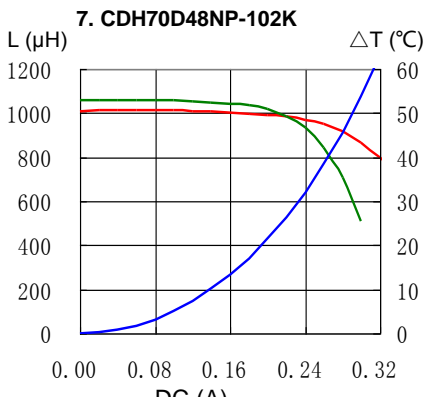
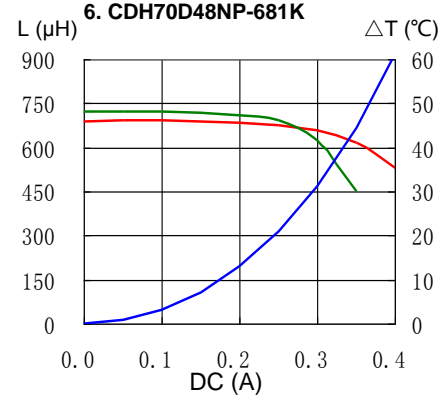
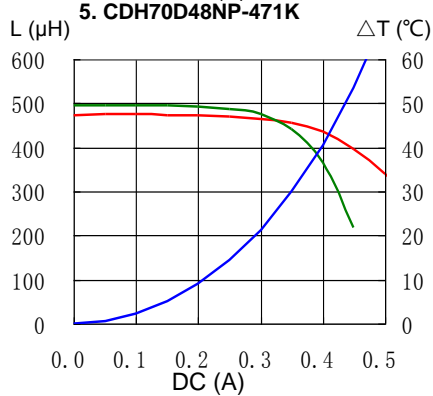
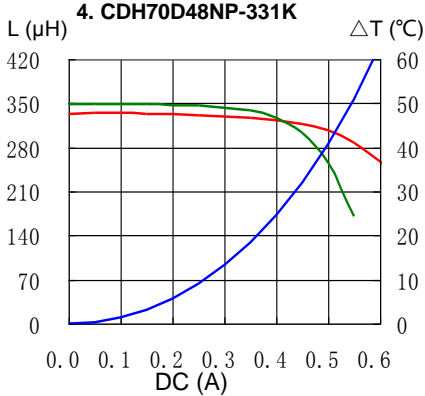
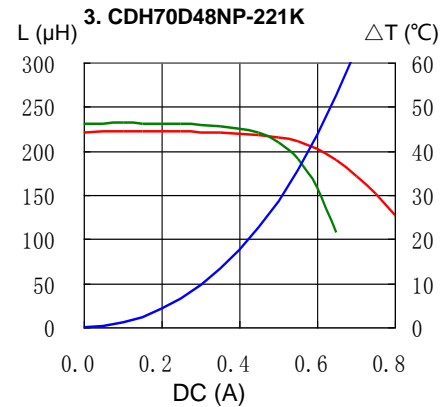
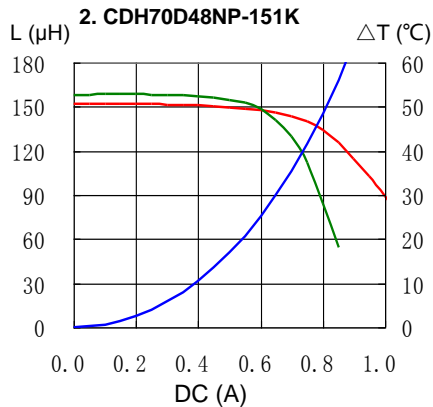
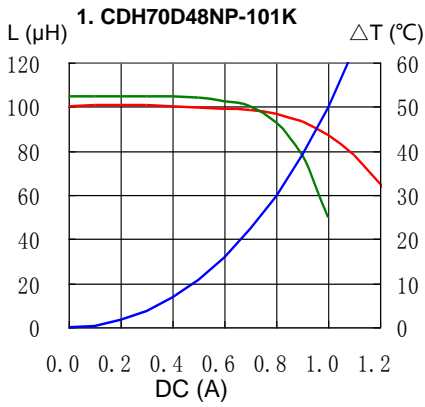
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

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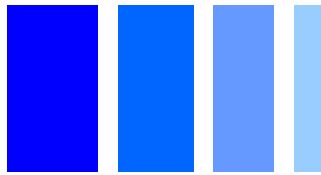


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

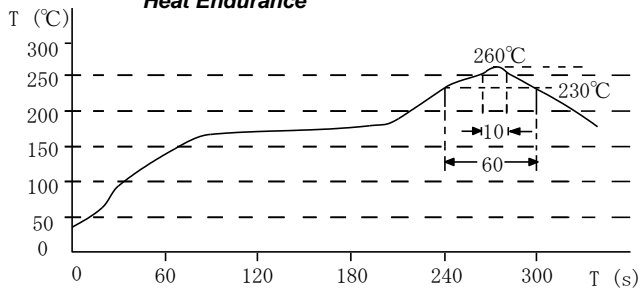


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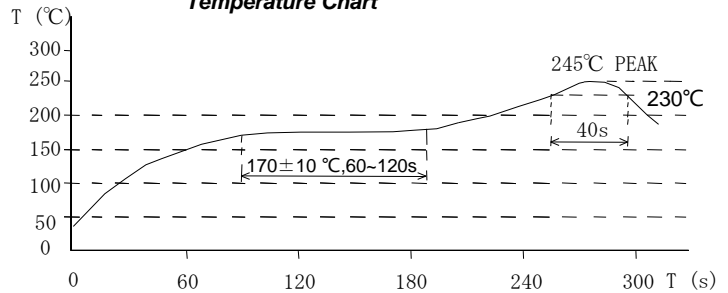


Solder Reflow Condition

Heat Endurance



Temperature Chart



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