

SMD Power Inductor CDH80D48



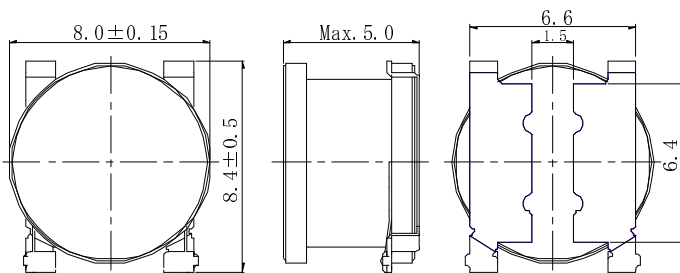
Halogen Free



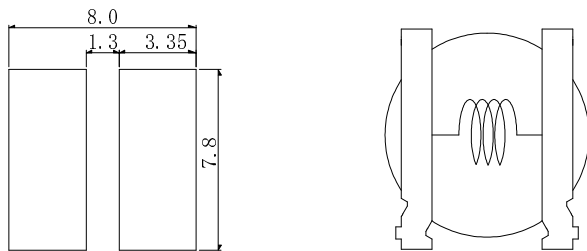
Description

- Ferrite drum core construction
- Magnetically unshielded
- L × W × H: 8.90 × 8.15 × 5.0 mm Max.
- Product weight: 1.0g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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
- 500pcs per reel

Applications

- Ideally used in input filter of LED lighting.

Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [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	
CDH80D48NP-101K	101	100 ± 10%	0.33(0.26)	1020	840	1030
CDH80D48NP-151K	151	150 ± 10%	0.48(0.38)	830	690	830
CDH80D48NP-221K	221	220 ± 10%	0.75(0.60)	680	560	650
CDH80D48NP-331K	331	330 ± 10%	1.00(0.80)	580	480	570
CDH80D48NP-471K	471	470 ± 10%	1.42(1.18)	470	390	450
CDH80D48NP-681K	681	680 ± 10%	2.06(1.72)	390	330	370
CDH80D48NP-102K	102	1000 ± 10%	2.94(2.45)	320	270	310
CDH80D48NP-152K	152	1500 ± 10%	4.69(3.91)	260	220	250
CDH80D48NP-222K	222	2200 ± 10%	6.54(5.45)	220	180	210
CDH80D48NP-332K	332	3300 ± 10%	11.2(9.32)	180	145	160
CDH80D48NP-472K	472	4700 ± 10%	17.2(14.3)	155	120	125

※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.

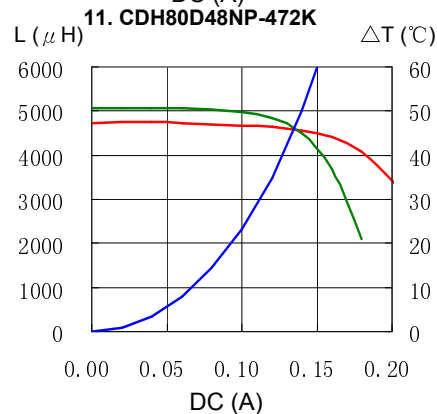
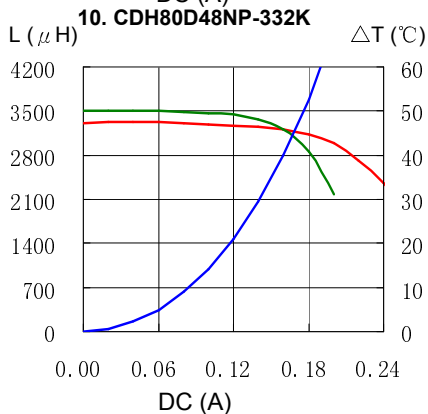
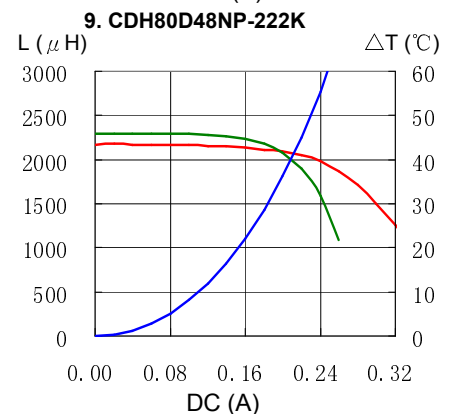
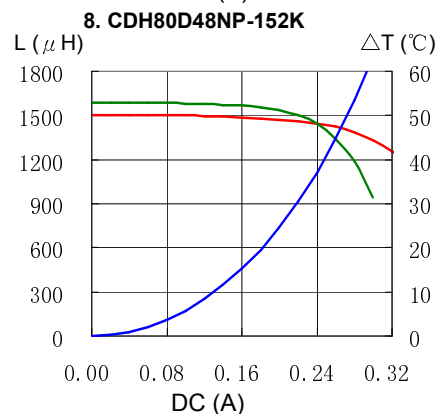
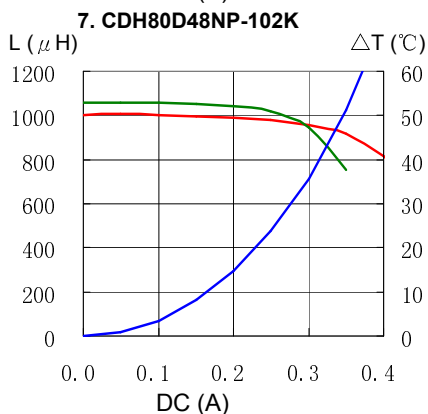
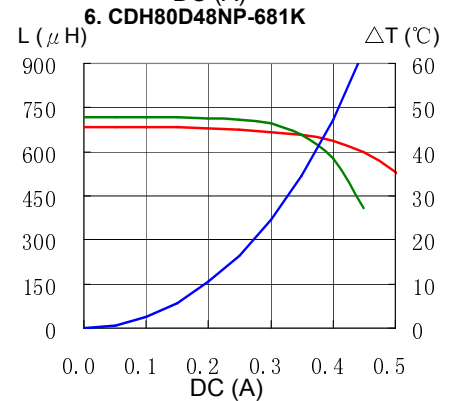
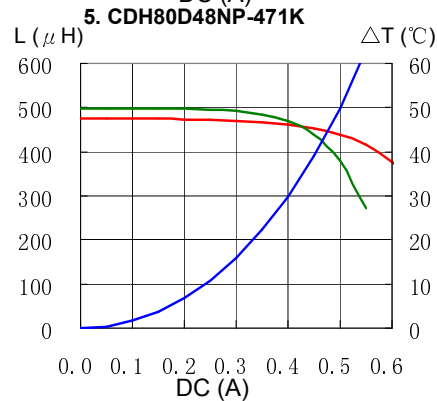
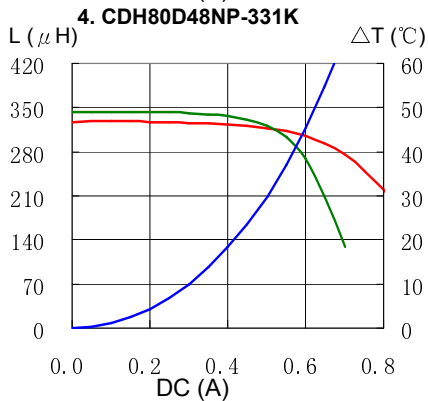
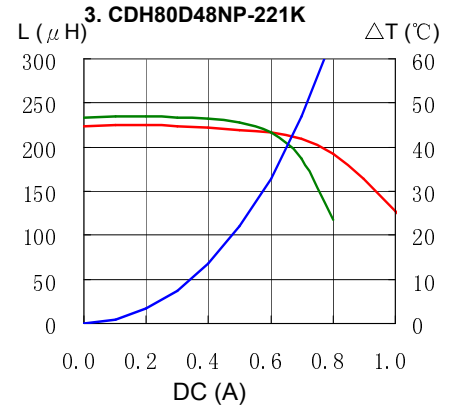
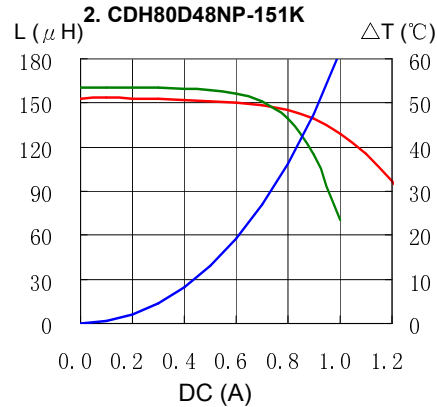
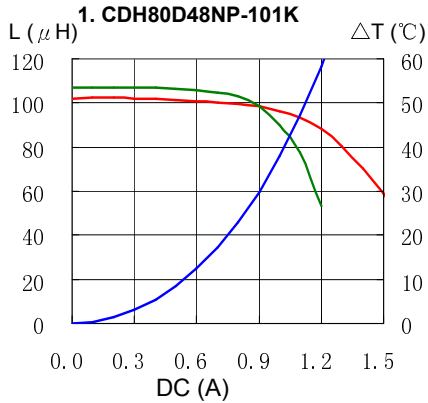
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

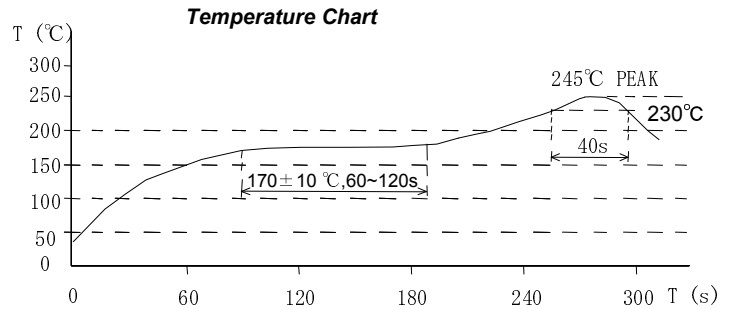
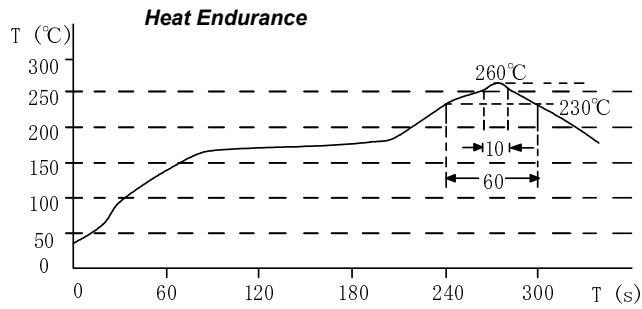
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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