

SMD Power Inductor CDH8D14

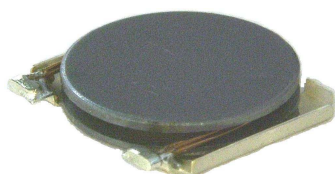


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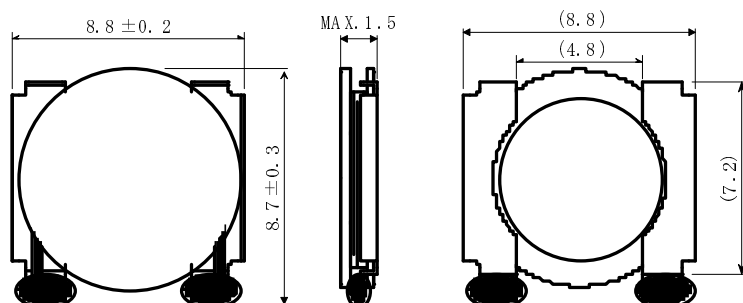
**Halogen
Free**



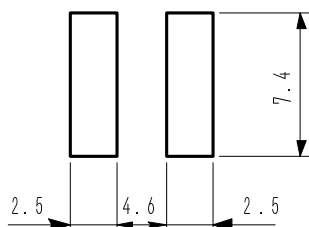
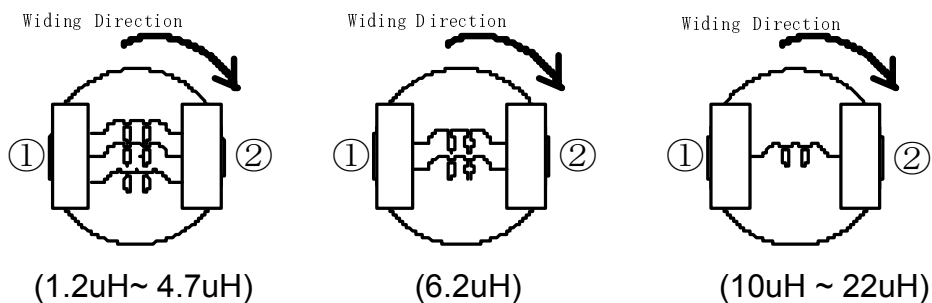
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 9.0 × 9.0 × 1.5 mm Max.
- Product weight: 0.4g(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.

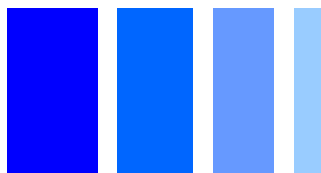
Packaging

- Carrier tape and reel packaging

Applications

- Ideally used in Notebook PC and other slim electronic devices.

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Electrical Characteristics

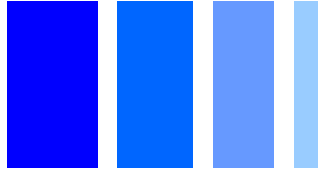
PART NO.	Stamp	Inductance [Within] (μ H) ※1	D.C.R. (m Ω) [Max.] (typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at100°C)	
CDH8D14NP-1R2MC	1R2	1.2 μ H $\pm$ 20%	25(20)	5.5	4.7	5.5
CDH8D14NP-1R8MC	1R8	1.8 μ H $\pm$ 20%	36(28)	4.3	3.6	4.0
CDH8D14NP-2R4MC	2R4	2.4 μ H $\pm$ 20%	43(34)	3.8	3.2	3.4
CDH8D14NP-3R6MC	3R6	3.6 μ H $\pm$ 20%	59(47)	3.2	2.7	2.7
CDH8D14NP-4R7MC	4R7	4.7 μ H $\pm$ 20%	72(57)	2.8	2.3	2.5
CDH8D14NP-6R2MC	6R2	6.2 μ H $\pm$ 20%	86(69)	2.4	2.0	2.3
CDH8D14NP-100MC	100	10.0 μ H $\pm$ 20%	130(103)	1.90	1.60	1.80
CDH8D14NP-150MC	150	15.0 μ H $\pm$ 20%	204(162)	1.55	1.30	1.35
CDH8D14NP-220MC	220	22.0 μ H $\pm$ 20%	284(226)	1.25	1.05	1.15

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases 65% 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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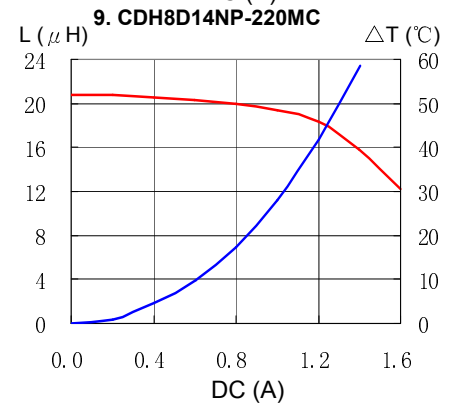
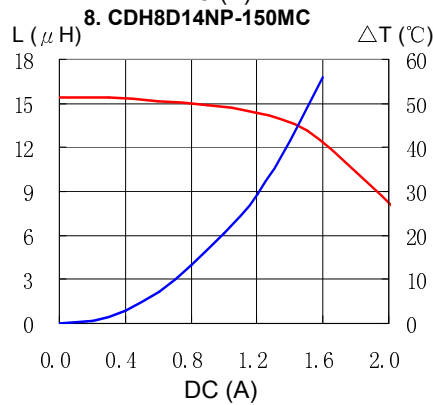
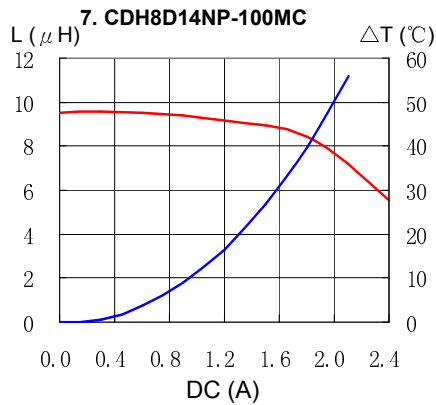
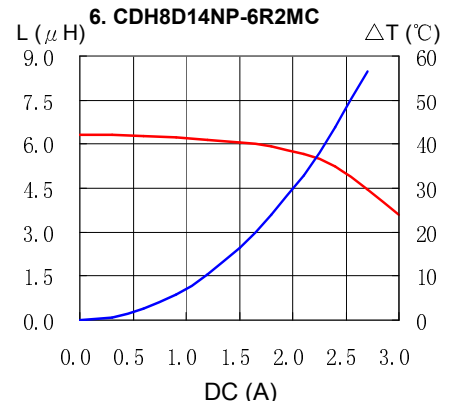
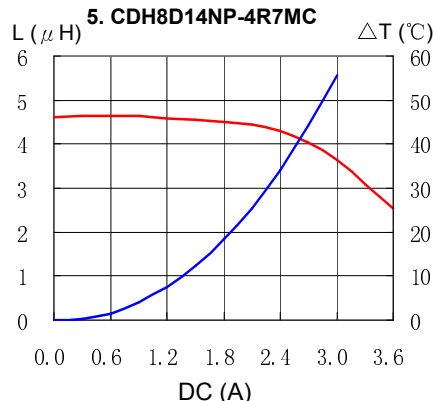
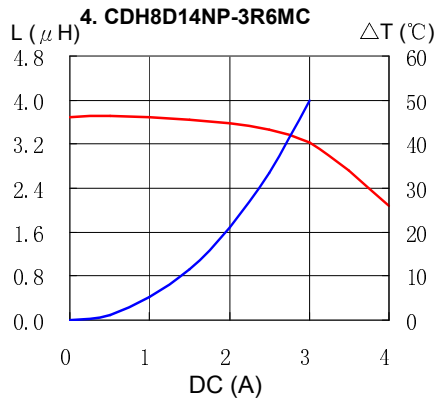
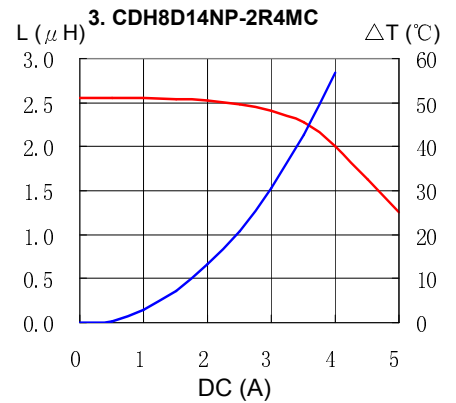
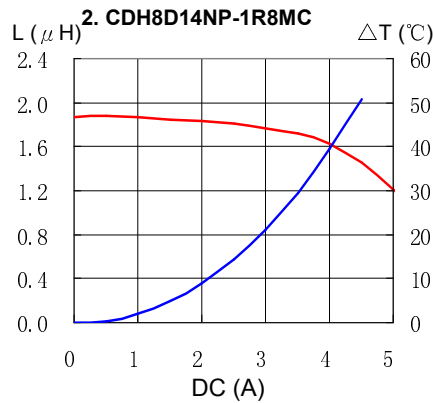
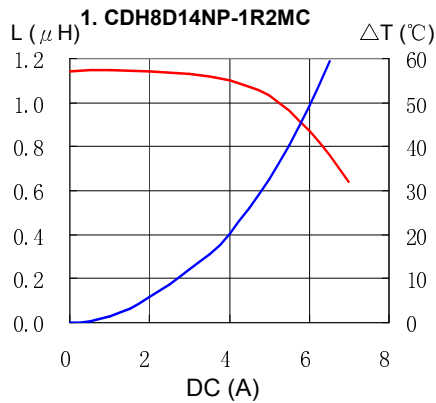


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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

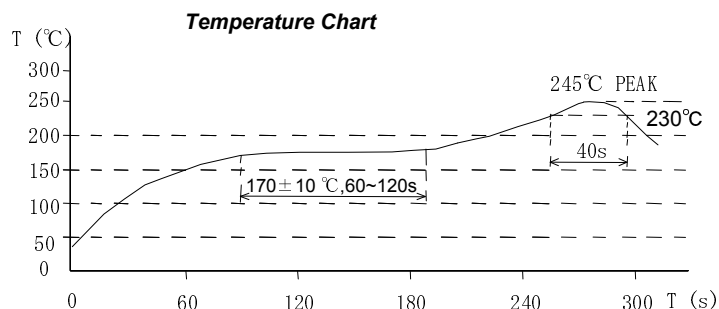
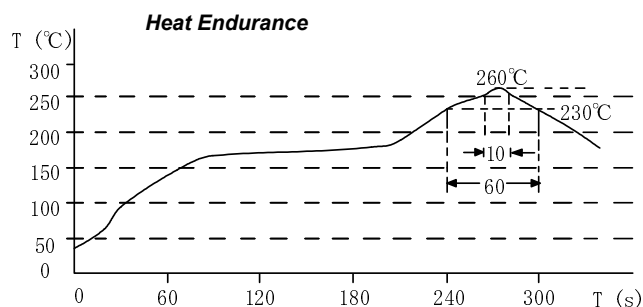


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Solder Reflow Condition



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