

# SMD Power Inductor CDH25D11D



*Under Development*



Halogen Free



### Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 2.6 × 2.1 × 1.2 mm Max.
- Product weight: 20 mg(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.

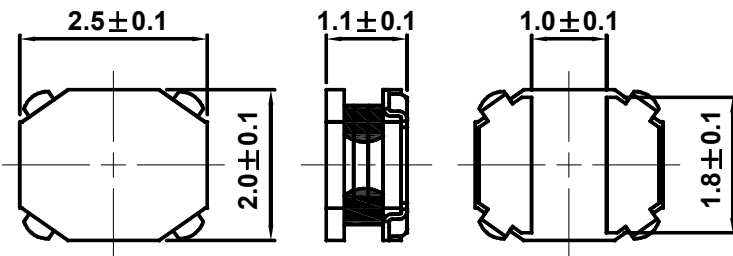
### Packaging

- Carrier tape and reel packaging.

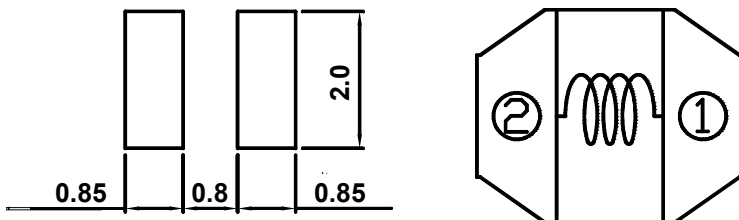
### Applications

- Ideally used in HDD, cell phone, PDA, DVC and DSC.

### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

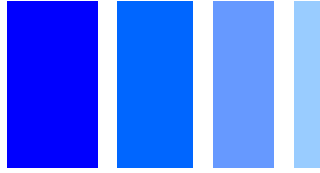
PART NAME	STAMP	INDUCTANCE (uH) [WITHIN] ※1	D.C.R. (mΩ) [WITHIN] (at 20°C)	SATURATION CURRENT (A) (at 20°C) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDH25D11DHF-1R0NC-H	A	1.0±30%	79±25%	2.16	1.52
CDH25D11DHF-1R5NC-H	B	1.5±30%	118±25%	1.89	1.25
CDH25D11DHF-2R2MC-H	C	2.2±20%	167±25%	1.50	1.02
CDH25D11DHF-3R3MC-H	D	3.3±20%	215±25%	1.30	0.96
CDH25D11DHF-4R7MC-H	E	4.7±20%	318±20%	1.11	0.76
CDH25D11DHF-6R8MC-H	F	6.8±20%	495±20%	0.84	0.58
CDH25D11DHF-100MC-H	G	10±20%	755±20%	0.71	0.44

※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 Δt=40°C (Ta=20°C).

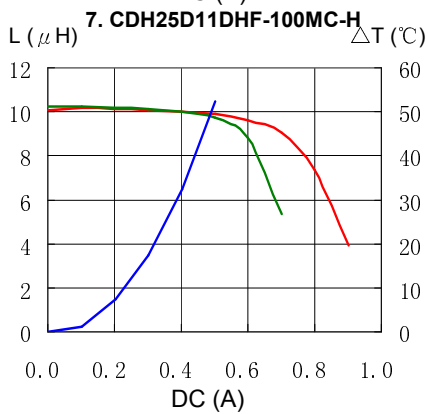
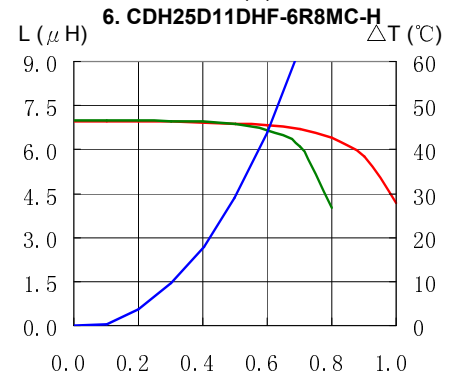
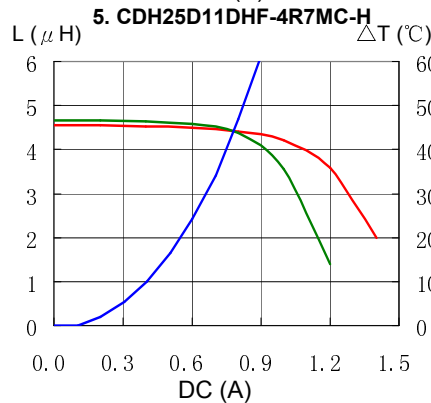
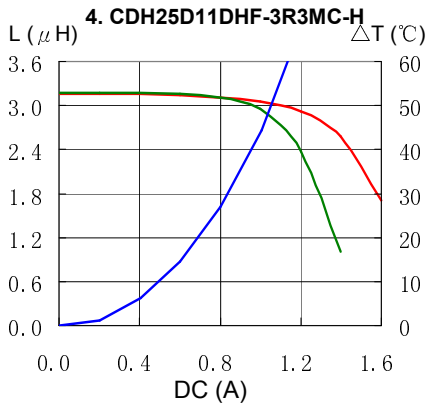
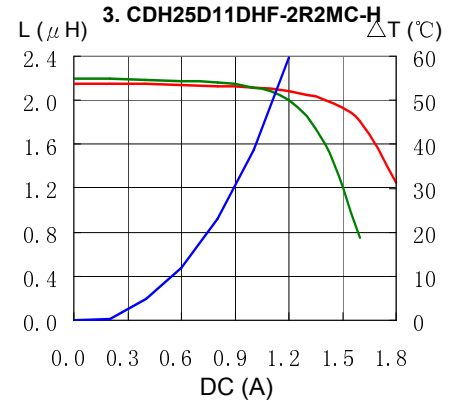
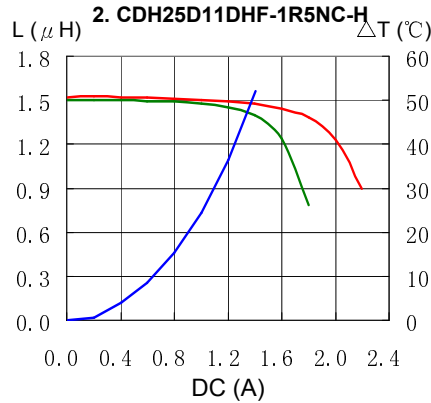
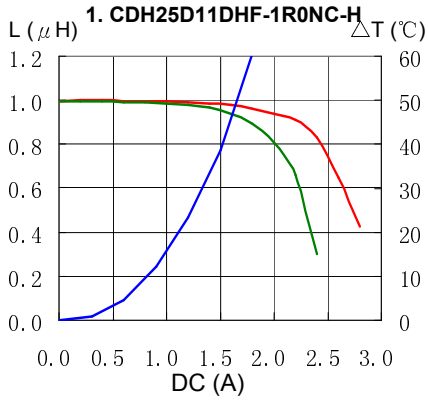
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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



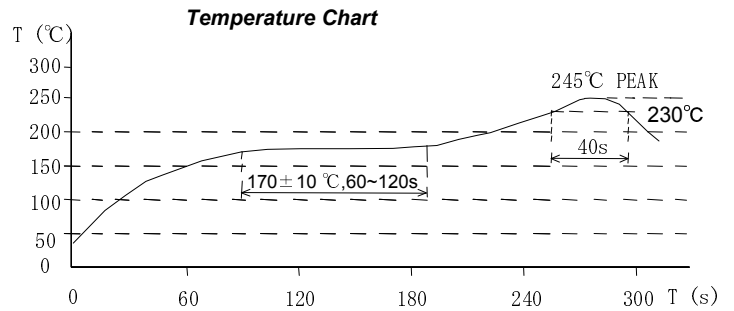
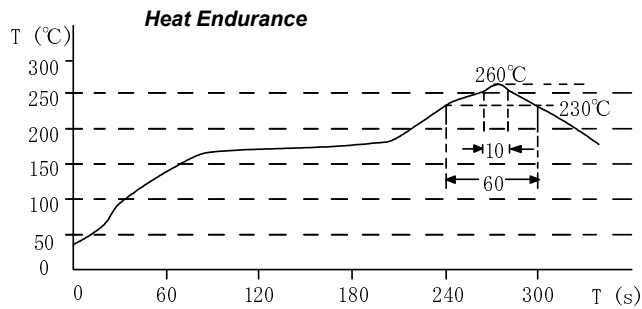
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 **sumida**

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## Solder Reflow Condition



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