

# SMD Power Inductor CDH30D11D/MB



Halogen Free



## Description

- Ferrite drum core construction.
- Semi-shielded with ferrite powder.
- L × W × H: 3.2 × 3.1 × 1.2 mm Max.
- Product weight: 38mg(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.

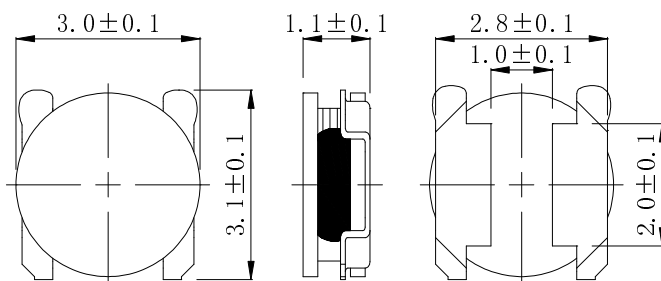
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 4000pcs per reel

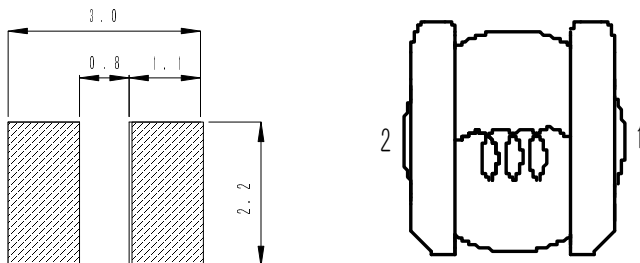
## Applications

- Ideally used in Mobile phone, PDA, MP3, DVC/DSC, HDD etc. as DC-DC converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R. (m $\Omega$ ) [within] (at 20°C)	Saturation current (A) (at 20°C) ※2	Temperature rise current (A) ※3
CDH30D11DMBHF-1R0NC	A	1.0 ± 30%	45 ± 25%	1.96	2.40
CDH30D11DMBHF-1R5NC	C	1.5 ± 30%	53 ± 25%	1.63	2.20
CDH30D11DMBHF-2R2MC	E	2.2 ± 20%	68 ± 25%	1.40	1.95
CDH30D11DMBHF-3R3MC	G	3.3 ± 20%	95 ± 25%	1.15	1.70
CDH30D11DMBHF-4R7MC	J	4.7 ± 20%	170 ± 20%	0.96	1.27
CDH30D11DMBHF-6R8MC	L	6.8 ± 20%	225 ± 20%	0.79	1.06
CDH30D11DMBHF-100MC	N	10 ± 20%	360 ± 20%	0.66	0.80
CDH30D11DMBHF-150MC	Q	15 ± 20%	560 ± 20%	0.53	0.67

※1. Inductance measuring condition: at 100kHz.

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

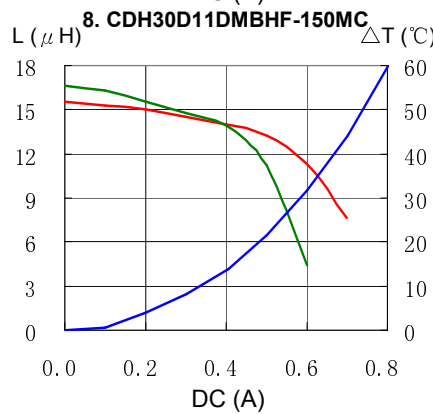
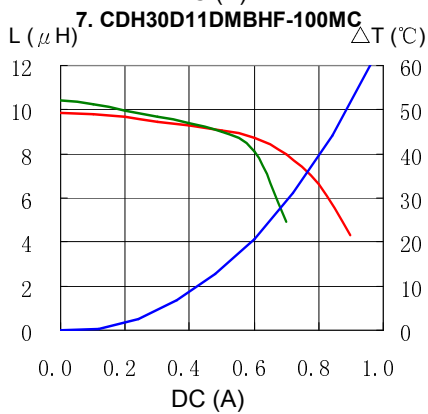
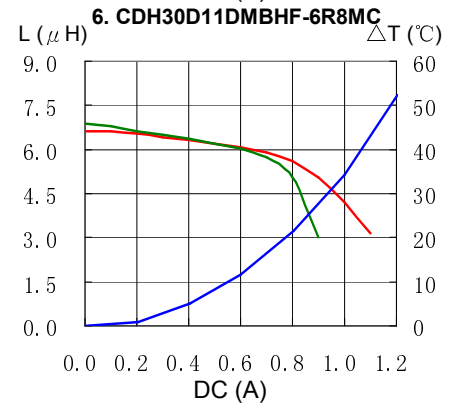
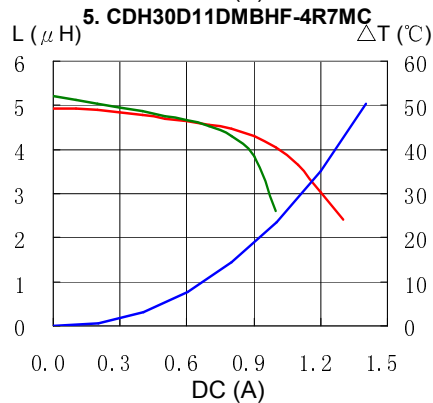
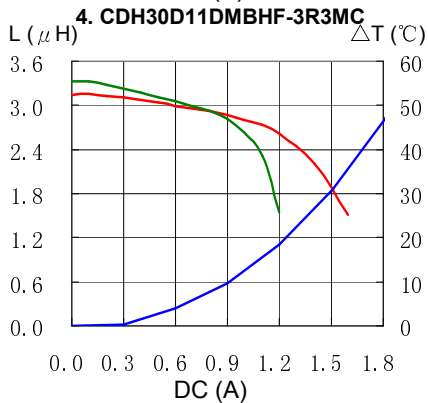
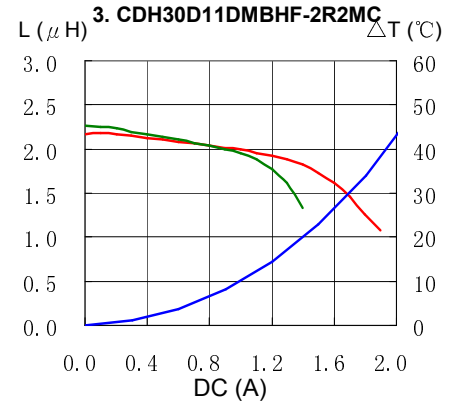
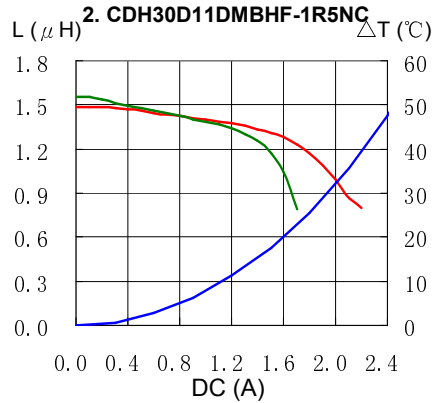
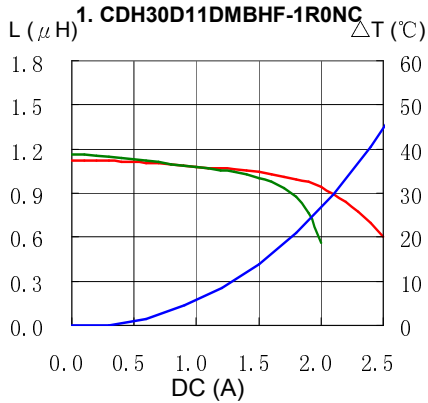
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

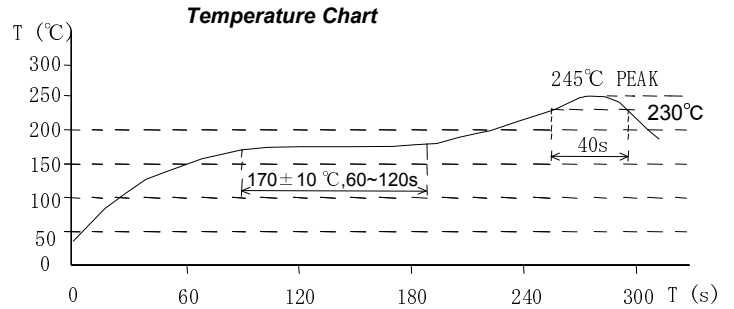
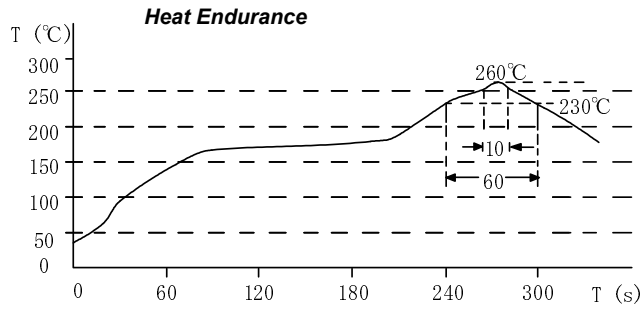
— L (20°C) — L (105°C) —  $\Delta T$



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## Solder Reflow Condition



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