

# CDH30D11DMBHF-2R2MC Datasheet



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DiGi Electronics Part Number	CDH30D11DMBHF-2R2MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDH30D11DMBHF-2R2MC
Description	INDUCTOR
Detailed Description	220 $\mu$ H Unshielded Drum Core, Wirewound Inductor 1.95 A 68mOhm Nonstandard



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## Purchase and inquiry

**Manufacturer Product Number:**

CDH30D11DMBHF-2R2MC

**Series:**

CDH30D11D

**Type:**

Drum Core, Wirewound

**Inductance:**220  $\mu$ H**Current Rating (Amps):**

1.95 A

**Shielding:**

Unshielded

**Q @ Freq:**

-

**Ratings:**

-

**Inductance Frequency - Test:**

100 kHz

**Mounting Type:**

Surface Mount

**Supplier Device Package:**

-

**Height - Seated (Max):**

0.047" (1.20mm)

**Manufacturer:**

Sumida America Components Inc.

**Product Status:**

Active

**Material - Core:**

Ferrite

**Tolerance:** $\pm$ 20%**Current - Saturation (Isat):**

1.4A

**DC Resistance (DCR):**

68mOhm

**Frequency - Self Resonant:**

-

**Operating Temperature:**

-40°C ~ 105°C

**Features:**

-

**Package / Case:**

Nonstandard

**Size / Dimension:**

0.122" L x 0.118" W (3.10mm x 3.00mm)

## Environmental & Export classification

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)



# SMD Power Inductor

## CDH30D11D/MB



RoHS

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.

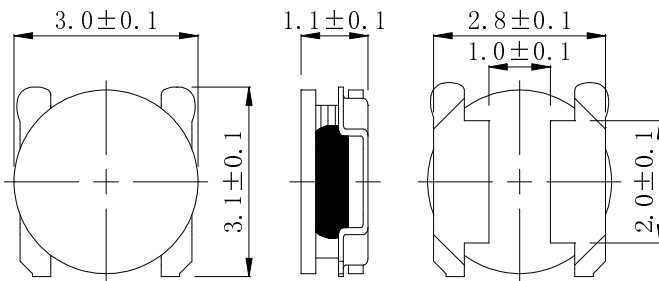
### Packaging

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

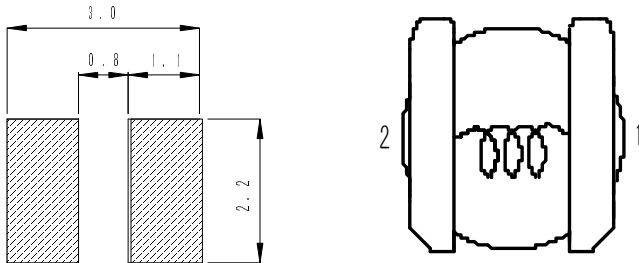
### Applications

- 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.

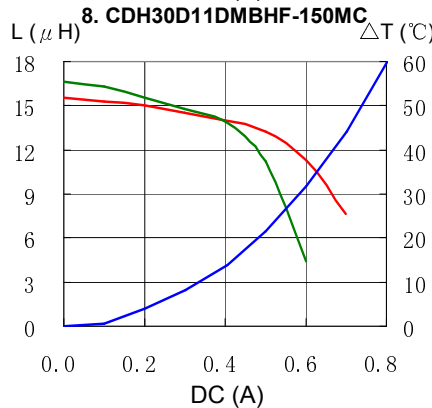
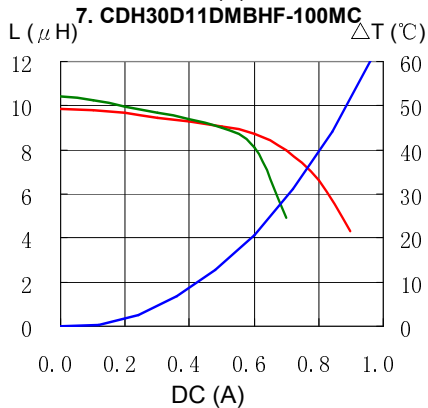
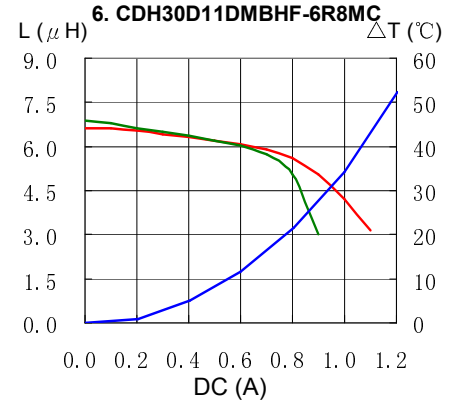
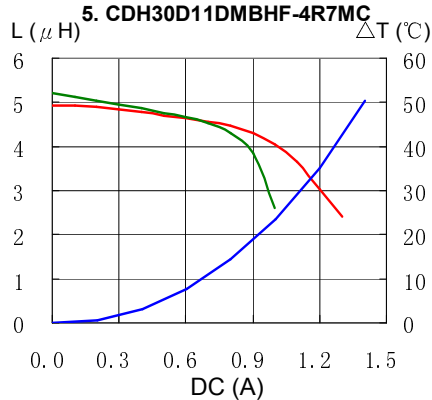
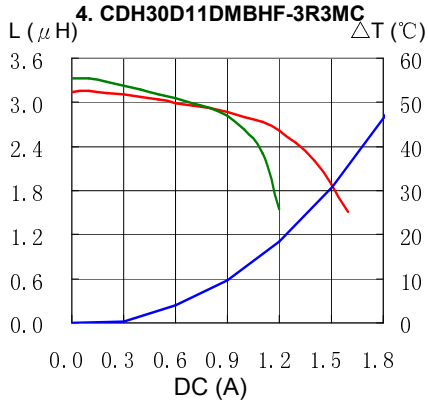
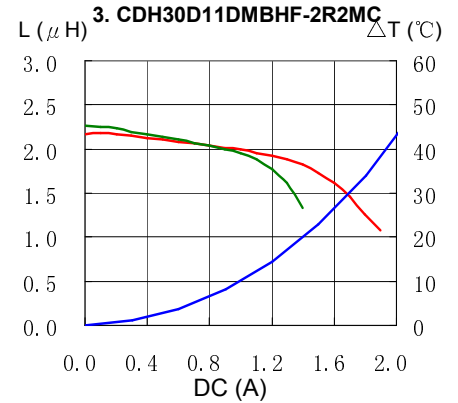
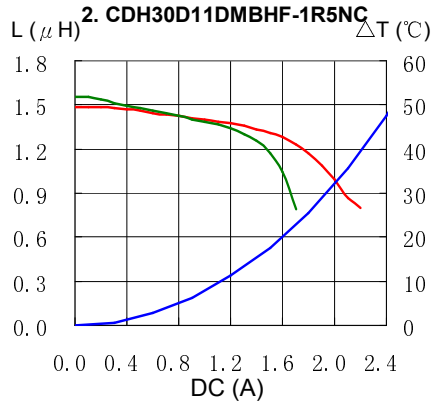
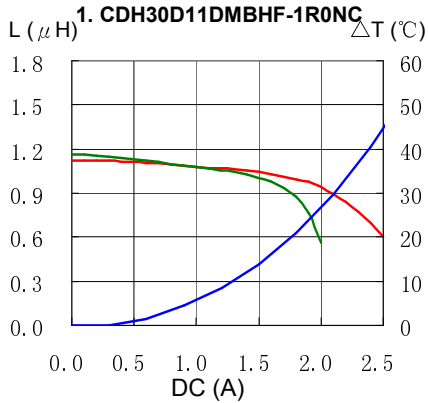
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

# SMD Power Inductor CDH30D11D/MB



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

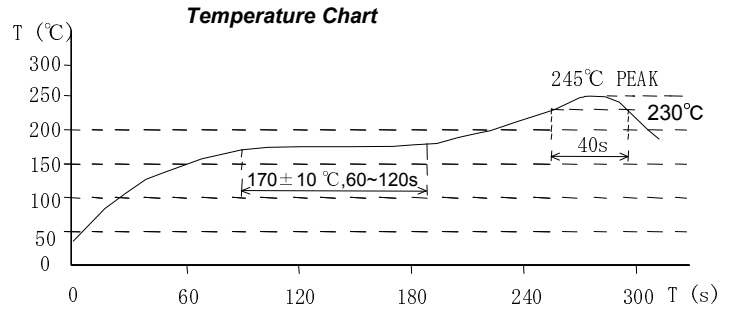
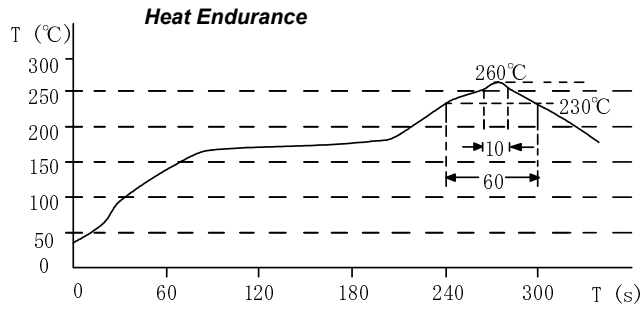


# SMD Power Inductor

## CDH30D11D/MB



### Solder Reflow Condition



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