

# CDH30D14DSHPHF-100MC Datasheet



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DiGi Electronics Part Number	CDH30D14DSHPHF-100MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDH30D14DSHPHF-100MC
Description	INDUCTOR
Detailed Description	10 $\mu$ H Unshielded Drum Core, Wirewound Inductor 560 mA 620mOhm Nonstandard



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## Purchase and inquiry

**Manufacturer Product Number:**

CDH30D14DSHPHF-100MC

**Series:**

CDH30D14D/SHP

**Type:**

Drum Core, Wirewound

**Inductance:**10  $\mu$ H**Current Rating (Amps):**

560 mA

**Shielding:**

Unshielded

**Q @ Freq:**

-

**Ratings:**

-

**Inductance Frequency - Test:**

100 kHz

**Mounting Type:**

Surface Mount

**Supplier Device Package:**

-

**Height - Seated (Max):**

0.063" (1.60mm)

**Manufacturer:**

Sumida America Components Inc.

**Product Status:**

Active

**Material - Core:**

Ferrite

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

720mA

**DC Resistance (DCR):**

620mOhm

**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

## CDH30D14D/SHP



RoHS

Halogen Free



### Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 1.5 mm Max.
- Product weight: 42mg(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.

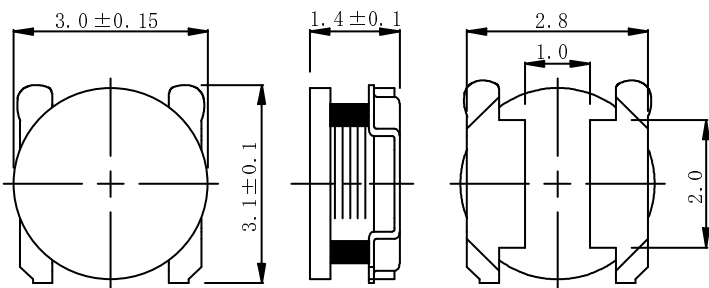
### Packaging

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

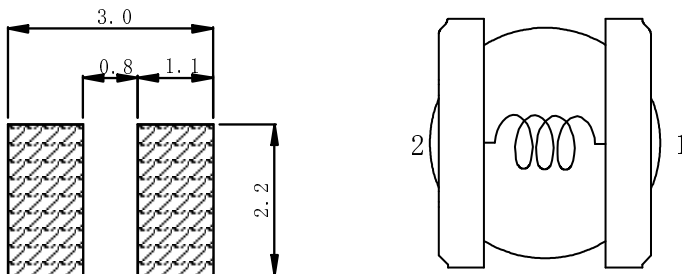
### Applications

- 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

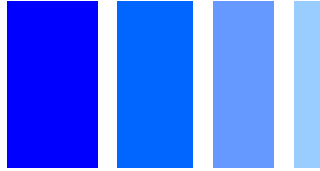
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Within] (at20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at105°C)	
CDH30D14DSHPHF-R68NC	L	0.68 ± 30%	35 ± 25%	3.60	2.84	2.80
CDH30D14DSHPHF-1R0NC	A	1.0 ± 30%	50 ± 25%	2.92	2.32	2.20
CDH30D14DSHPHF-1R5NC	B	1.5 ± 30%	75 ± 25%	2.44	2.00	1.80
CDH30D14DSHPHF-2R2NC	C	2.2 ± 30%	110 ± 20%	2.00	1.64	1.40
CDH30D14DSHPHF-3R3MC	D	3.3 ± 20%	155 ± 20%	1.64	1.36	1.22
CDH30D14DSHPHF-4R7MC	E	4.7 ± 20%	255 ± 20%	1.33	1.06	0.91
CDH30D14DSHPHF-6R8MC	F	6.8 ± 20%	400 ± 20%	1.14	0.90	0.70
CDH30D14DSHPHF-100MC	G	10 ± 20%	620 ± 20%	0.91	0.72	0.56

※1. Measuring condition: at 100kHz.

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

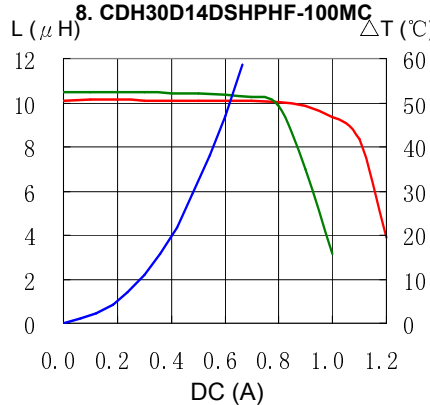
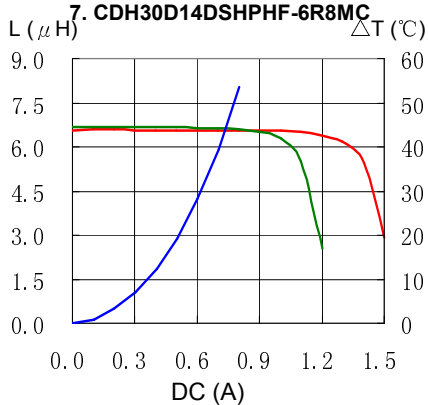
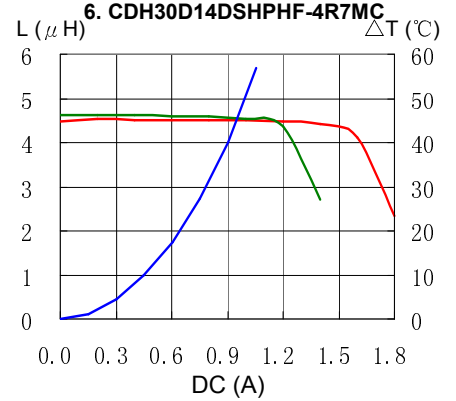
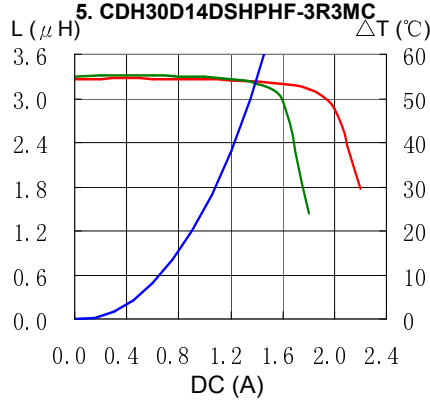
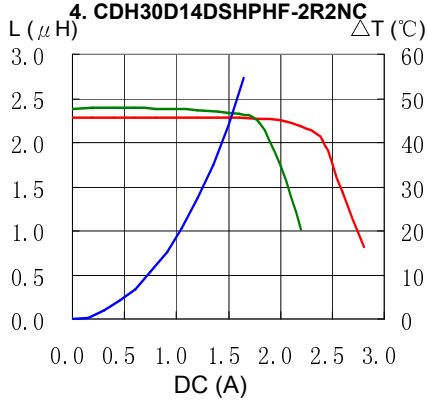
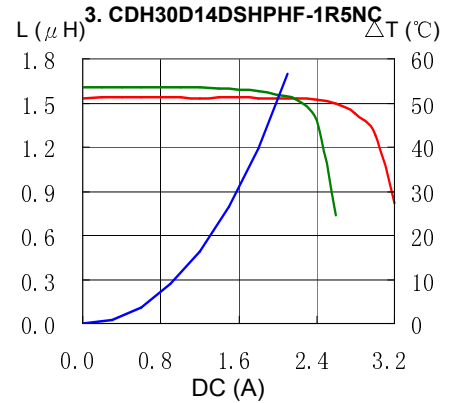
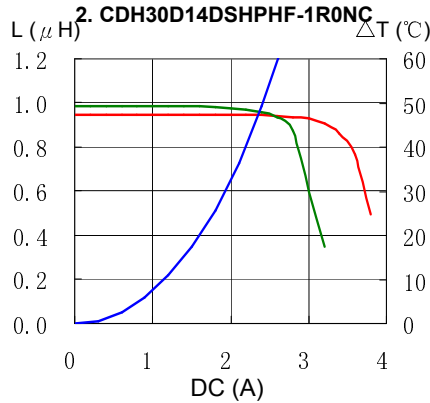
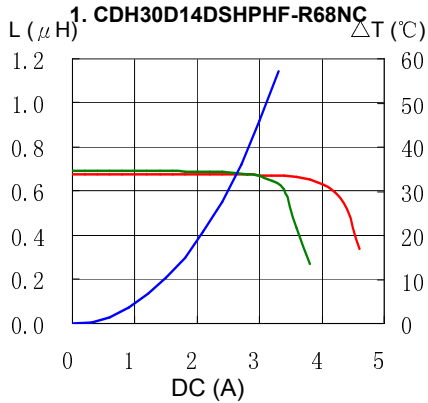
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

# SMD Power Inductor CDH30D14D/SHP



## Saturation Current & Temperature Rise Graph

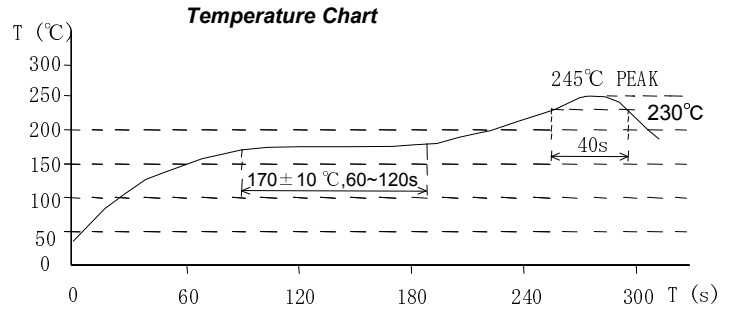
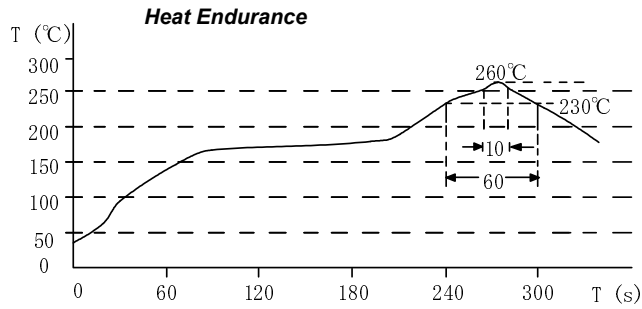
— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor CDH30D14D/SHP



## Solder Reflow Condition



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