

# CDH30D14DSHPHF-6R8MC Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	CDH30D14DSHPHF-6R8MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDH30D14DSHPHF-6R8MC
Description	INDUCTOR
Detailed Description	6.8 $\mu$ H Unshielded Drum Core, Wirewound Inductor 700 mA 400mOhm Nonstandard



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

CDH30D14DSHPHF-6R8MC

Series:

CDH30D14D/SHP

Type:

Drum Core, Wirewound

Inductance:

6.8  $\mu$ H

Current Rating (Amps):

700 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):

900mA

DC Resistance (DCR):

400mOhm

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.

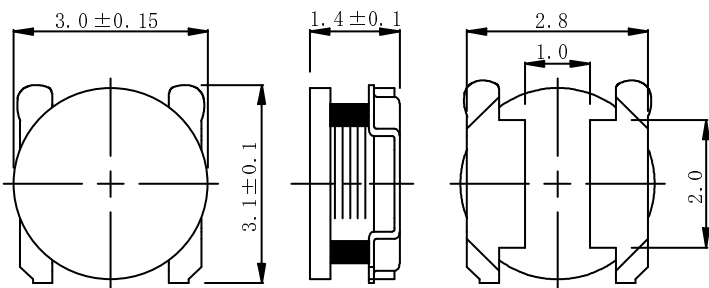
### Packaging

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

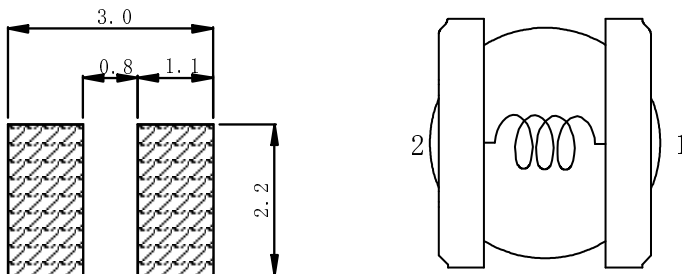
### Applications

- 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

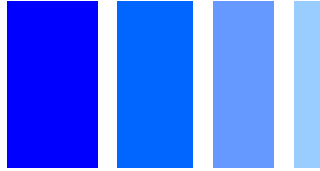
Part No.	Stamp	Inductance ( $\mu$ H) [Within] ※1	D.C.R. (m $\Omega$ ) [Within] (at20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at105°C)	
CDH30D14DSHPHF-R68NC	L	0.68 ± 30%	35 ± 25%	3.60	2.84	2.80
CDH30D14DSHPHF-1R0NC	A	1.0 ± 30%	50 ± 25%	2.92	2.32	2.20
CDH30D14DSHPHF-1R5NC	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 it's nominal value.

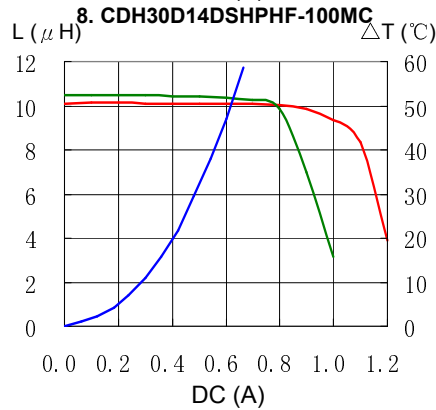
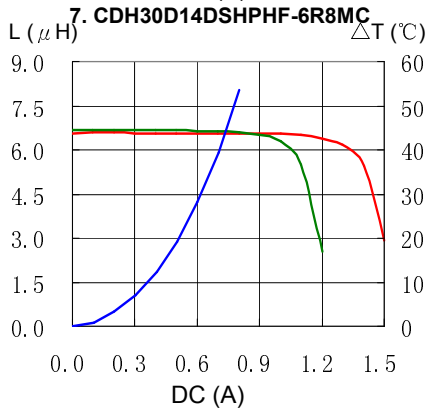
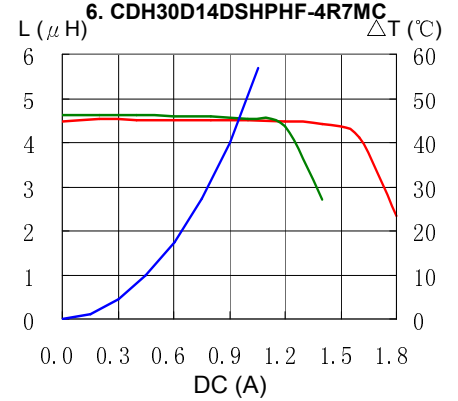
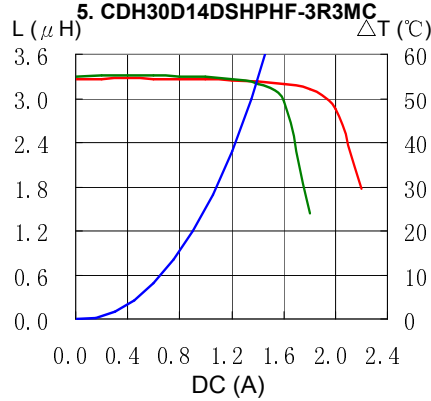
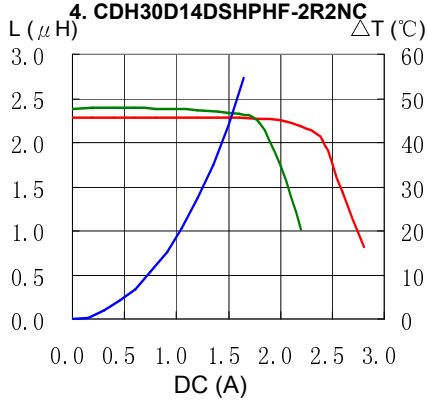
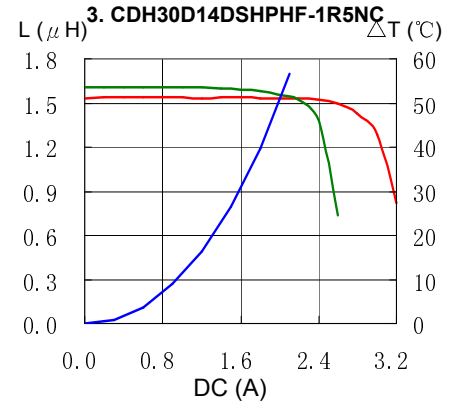
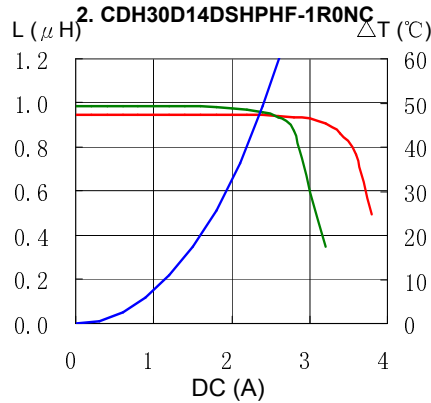
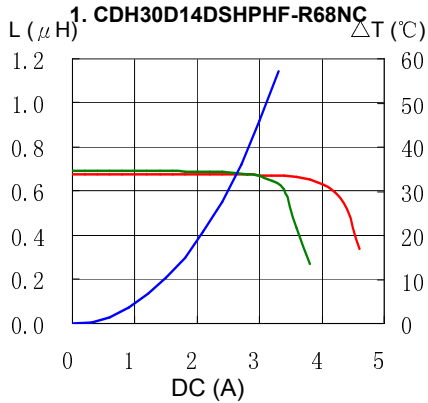
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDH30D14D/SHP



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

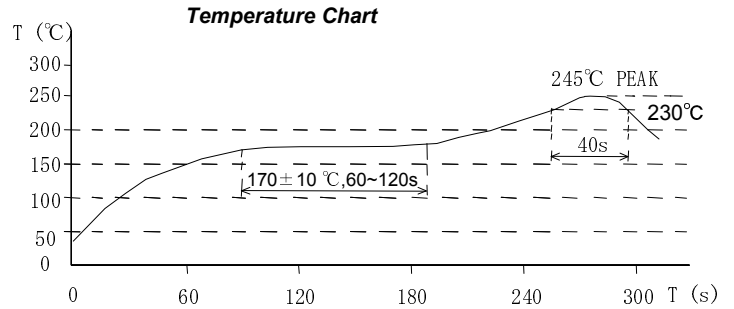
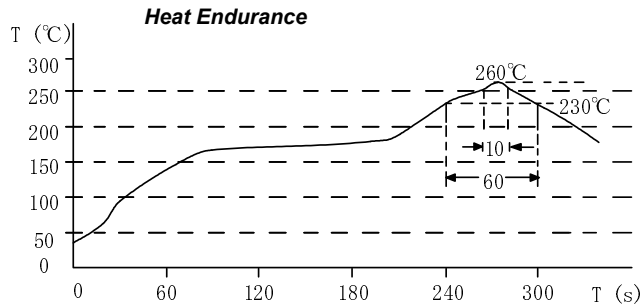


# SMD Power Inductor

## CDH30D14D/SHP



### Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

#### Hong Kong

Tel.+852-2880-6781  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

#### Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

#### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

#### Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

#### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

#### Oberzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

#### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

#### Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

#### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

#### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

#### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.