



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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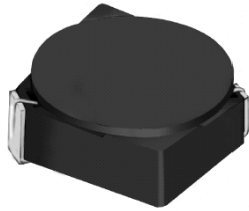
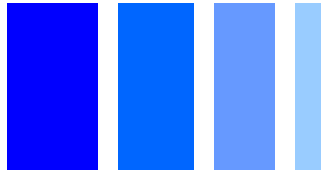
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# SMD Power Inductor CDRH3D16



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.8 mm Max.
- Product weight: 80mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

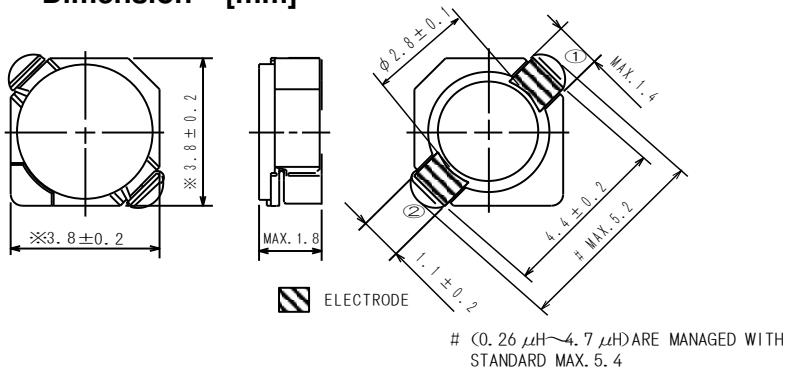
## Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

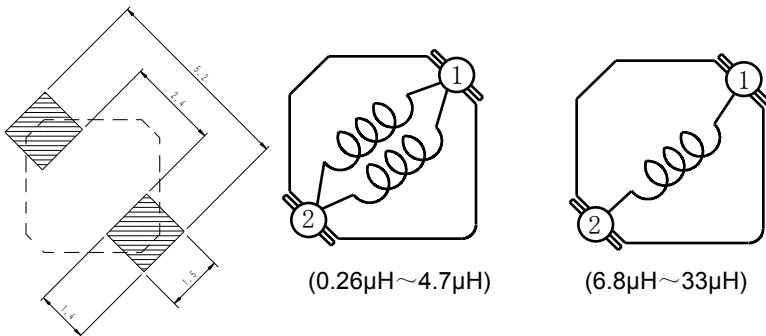
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]





### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH3D16NP-R26NC	R	0.26 $\pm$ 35%	27.5(21)	3.60
CDRH3D16NP-R47NC	S	0.47 $\pm$ 35%	35( 27)	2.75
CDRH3D16NP-0R7NC	T	0.7 $\pm$ 35%	43( 33)	2.25
CDRH3D16NP-1R1NC	U	1.1 $\pm$ 35%	50( 38)	1.90
CDRH3D16NP-1R5NC	A	1.5 $\pm$ 30%	52( 40)	1.55
CDRH3D16NP-2R2NC	C	2.2 $\pm$ 30%	72( 55)	1.20
CDRH3D16NP-3R3NC	E	3.3 $\pm$ 30%	85( 65)	1.10
CDRH3D16NP-4R7NC	G	4.7 $\pm$ 30%	105( 80)	0.90
CDRH3D16NP-6R8NC	I	6.8 $\pm$ 30%	170(130)	0.73
CDRH3D16NP-100NC	K	10 $\pm$ 30%	210(160)	0.55
CDRH3D16NP-150NC	M	15 $\pm$ 30%	295(225)	0.45
CDRH3D16NP-220NC	O	22 $\pm$ 30%	430(330)	0.40
CDRH3D16NP-330NC	Q	33 $\pm$ 30%	675(520)	0.32

※1. Inductance measuring condition: at 100kHz.

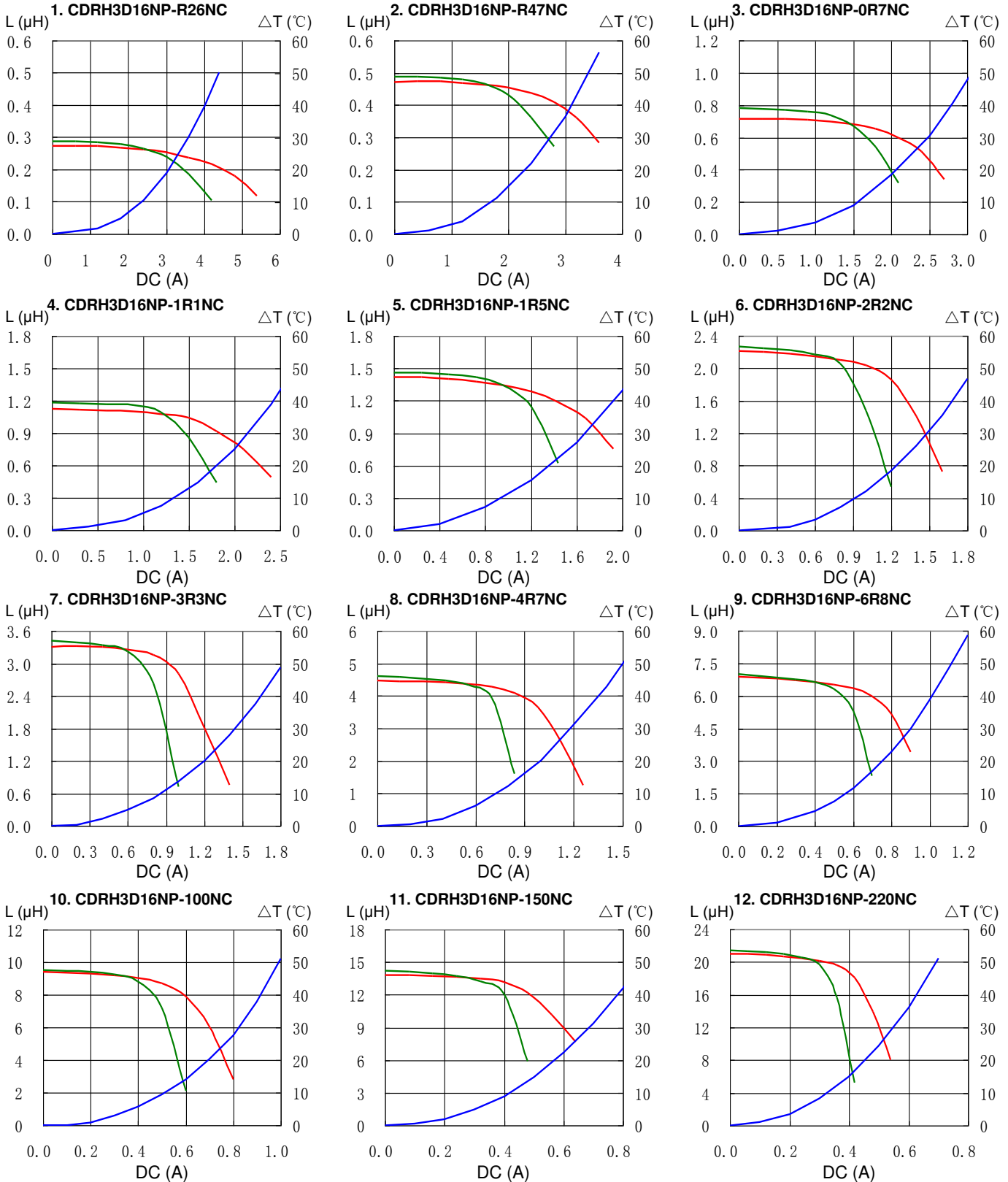
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=30^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH3D16



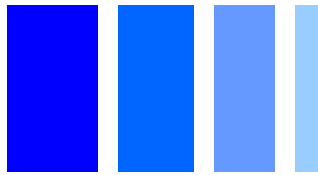
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

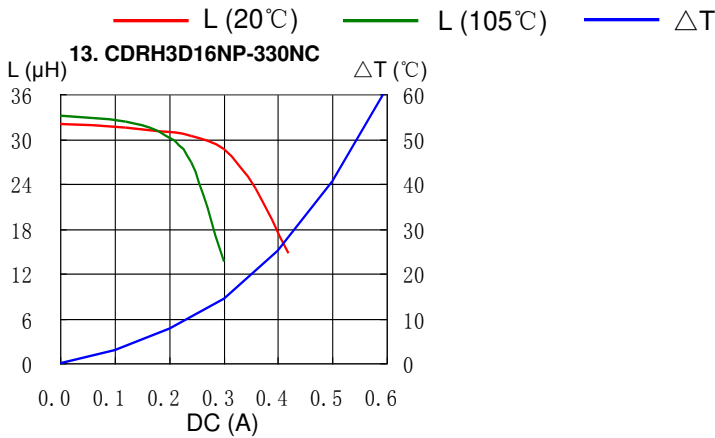




# SMD Power Inductor CDRH3D16

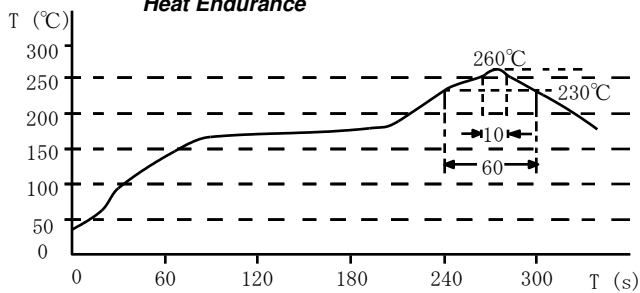


## Saturation Current & Temperature Rise Graph

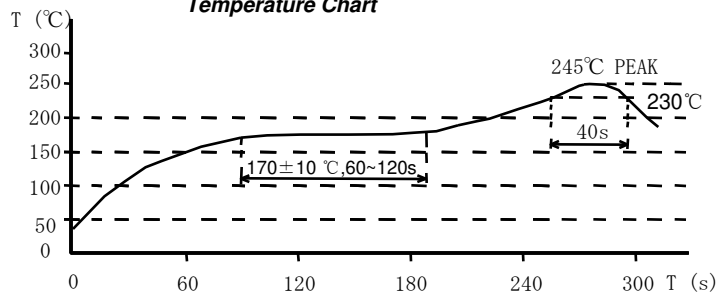


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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

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