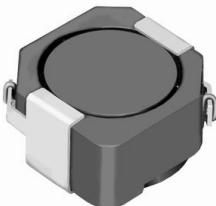
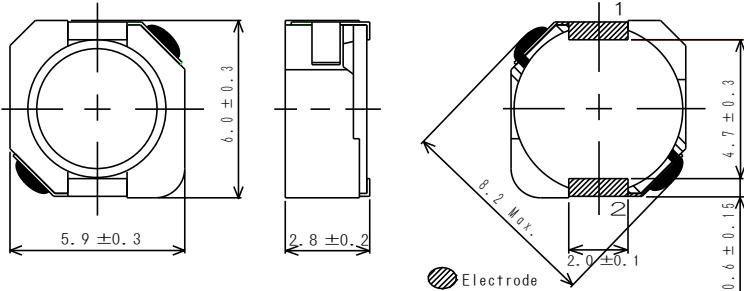


# SMD Power Inductor

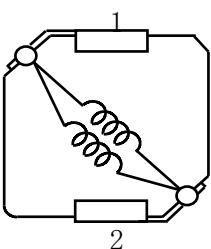
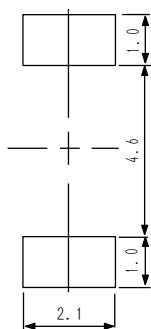
## CDRH5D28R/HP



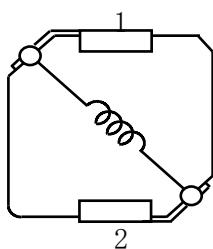
Dimension - [mm]



Land pattern and Schematics - [mm]



(2.2 $\mu$ H~10 $\mu$ H)



(12 $\mu$ H~47 $\mu$ H)

### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### 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

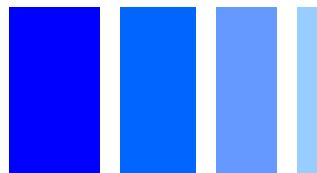
- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

### Applications

- Ideally used in Notebook PC,HDD,DSC/DVC, LCD TV ,Game machine etc. as DC-DC converter inductors.

# SMD Power Inductor

## CDRH5D28R/HP



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] $\approx$ 1	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Saturation Current (A) $\approx$ 2		Temperature Rise Current (A) $\approx$ 3
				at 20°C	at 105°C	
CDRH5D28RHPNP-2R2NC	2R2	2.2 $\pm$ 25%	24.8(19.8)	5.50	4.50	3.80
CDRH5D28RHPNP-3R0NC	3R0	3.0 $\pm$ 25%	31.8(25.4)	4.70	3.90	3.35
CDRH5D28RHPNP-4R7NC	4R7	4.7 $\pm$ 25%	43.1(34.5)	3.70	3.05	2.80
CDRH5D28RHPNP-5R6NC	5R6	5.6 $\pm$ 25%	47.9(38.3)	3.30	2.65	2.70
CDRH5D28RHPNP-6R8NC	6R8	6.8 $\pm$ 25%	61.3(49.0)	3.10	2.55	2.50
CDRH5D28RHPNP-8R2NC	8R2	8.2 $\pm$ 25%	88.4(70.7)	2.70	2.30	1.90
CDRH5D28RHPNP-100MC	100	10.0 $\pm$ 20%	93.0(74.4)	2.45	2.05	1.85
CDRH5D28RHPNP-120MC	120	12.0 $\pm$ 20%	115(92.1)	2.30	2.00	1.60
CDRH5D28RHPNP-150MC	150	15.0 $\pm$ 20%	144(115)	2.05	1.65	1.40
CDRH5D28RHPNP-180MC	180	18.0 $\pm$ 20%	161(128)	1.90	1.55	1.35
CDRH5D28RHPNP-220MC	220	22.0 $\pm$ 20%	213(171)	1.75	1.42	1.20
CDRH5D28RHPNP-270MC	270	27.0 $\pm$ 20%	277(221)	1.60	1.30	1.00
CDRH5D28RHPNP-330MC	330	33.0 $\pm$ 20%	314(251)	1.35	1.10	0.90
CDRH5D28RHPNP-470MC	470	47.0 $\pm$ 20%	379(303)	1.20	1.00	0.85

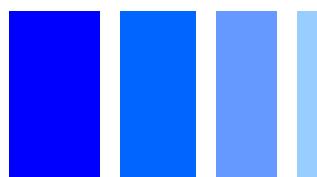
※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

# SMD Power Inductor

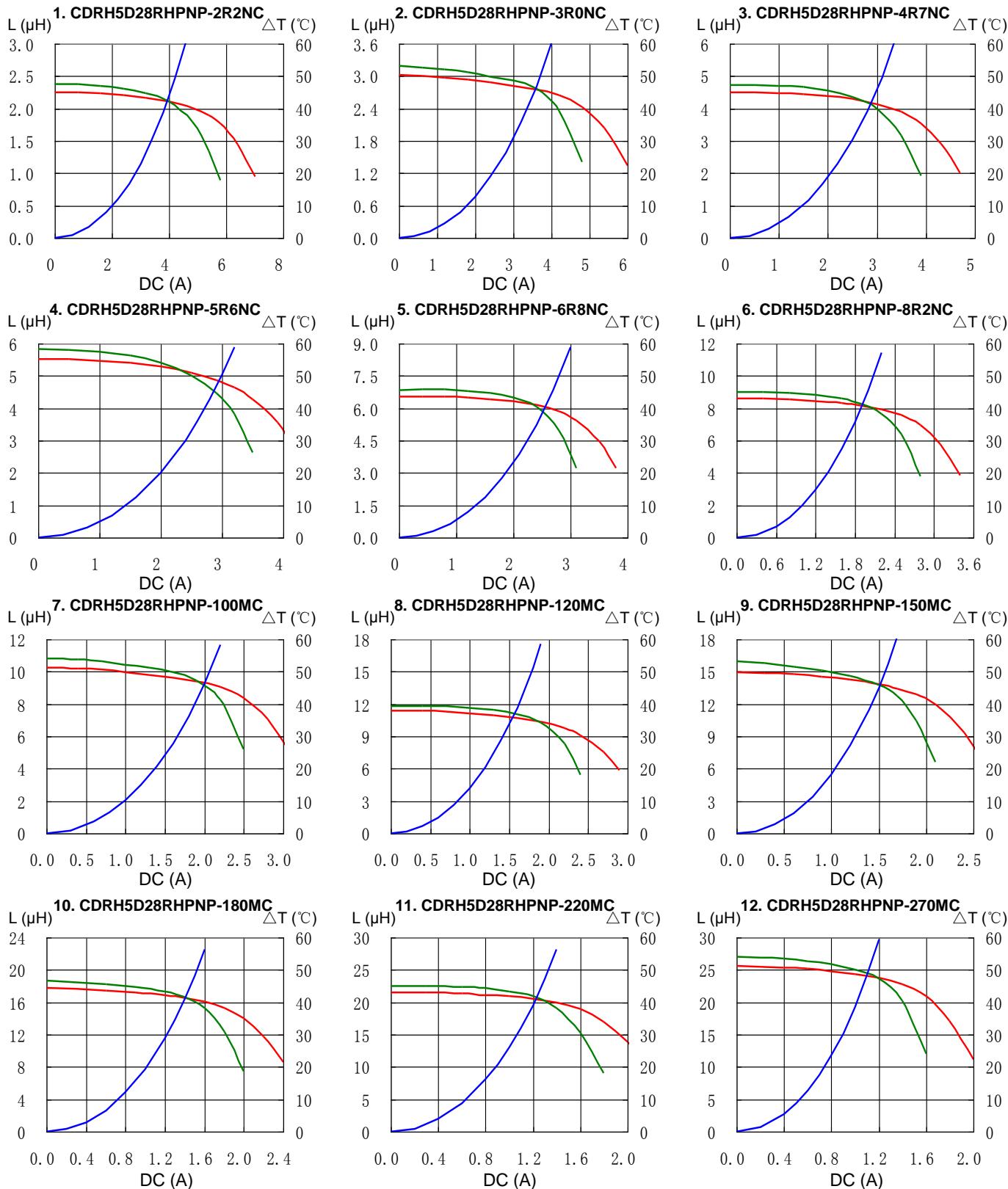
## CDRH5D28R/HP



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### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

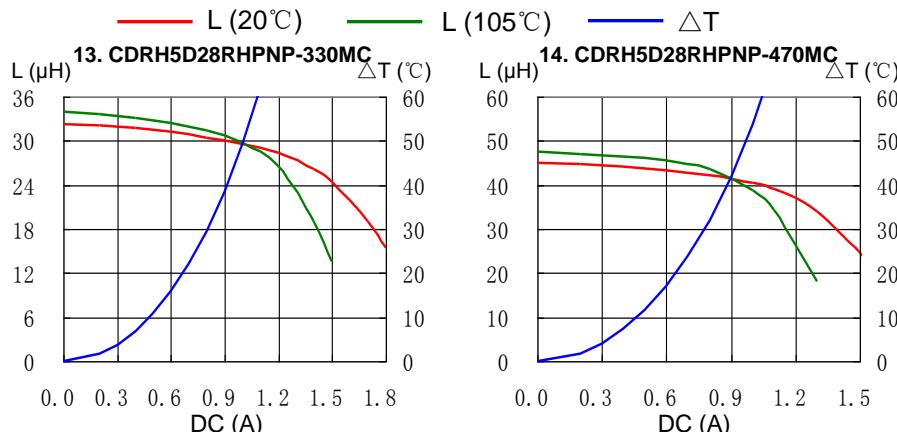


# SMD Power Inductor

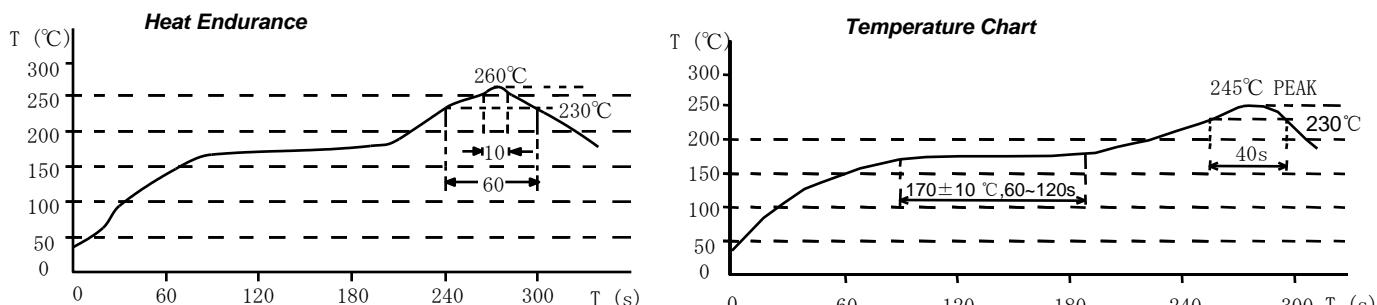
## CDRH5D28R/HP



### Saturation Current & Temperature Rise Graph



### Solder Reflow Condition



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#### 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)

#### Obernzell

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)