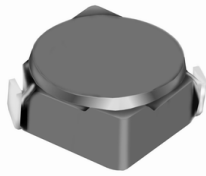


# SMD Power Inductor CDRH4D22/HP



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.0 × 5.0 × 2.4 mm Max.
- Product weight: 0.2g(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.

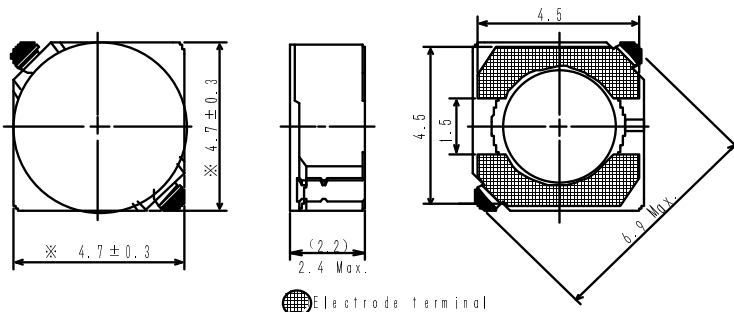
## Packaging

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

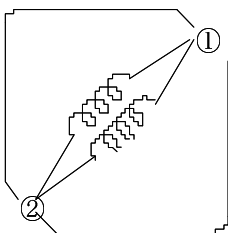
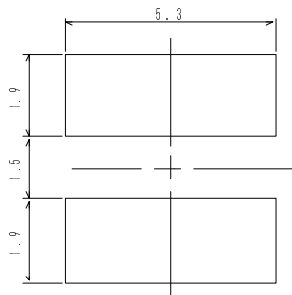
## Applications

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

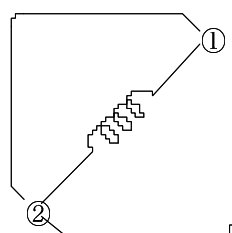
## Dimension - [mm]



## Land pattern and Schematics - [mm]



(1.2 μH ~ 5.2 μH)



(6.3 μH ~ 100 μH)

# SMD Power Inductor CDRH4D22/HP



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current ( A ) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH4D22HPNP-1R2NC	1R2	1.2 $\pm$ 25%	26.5(21.2)	4.20	3.40	3.20
CDRH4D22HPNP-1R5NC	1R5	1.5 $\pm$ 25%	31.3(25.0)	3.90	3.20	3.00
CDRH4D22HPNP-2R2NC	2R2	2.2 $\pm$ 25%	44.3(35.4)	3.20	2.50	2.40
CDRH4D22HPNP-2R7NC	2R7	2.7 $\pm$ 25%	57.8(46.3)	2.80	2.35	2.20
CDRH4D22HPNP-3R5NC	3R5	3.5 $\pm$ 25%	65.1(52.0)	2.50	2.10	2.00
CDRH4D22HPNP-4R7NC	4R7	4.7 $\pm$ 25%	82.6(66.0)	2.20	1.80	1.80
CDRH4D22HPNP-5R2NC	5R2	5.2 $\pm$ 25%	92.8(74.3)	2.00	1.65	1.70
CDRH4D22HPNP-6R3NC	6R3	6.3 $\pm$ 25%	110.0(87.9)	1.85	1.50	1.40
CDRH4D22HPNP-8R2NC	8R2	8.2 $\pm$ 25%	128.3(102.6)	1.65	1.40	1.35
CDRH4D22HPNP-100MC	100	10 $\pm$ 20%	143.8(115.0)	1.50	1.20	1.30
CDRH4D22HPNP-120MC	120	12 $\pm$ 20%	187.2(150.0)	1.30	1.10	1.10
CDRH4D22HPNP-150MC	150	15 $\pm$ 20%	212.9(170.3)	1.20	1.00	0.85
CDRH4D22HPNP-180MC	180	18 $\pm$ 20%	238.7(191.0)	1.10	0.90	0.80
CDRH4D22HPNP-220MC	220	22 $\pm$ 20%	267.0(213.6)	1.05	0.85	0.90
CDRH4D22HPNP-270MC	270	27 $\pm$ 20%	393.9(315.0)	0.90	0.75	0.70
CDRH4D22HPNP-330MC	330	33 $\pm$ 20%	448.9(359.0)	0.80	0.68	0.65
CDRH4D22HPNP-390MC	390	39 $\pm$ 20%	667.9(534.3)	0.75	0.60	0.52
CDRH4D22HPNP-470MC	470	47 $\pm$ 20%	723.3(578.6)	0.70	0.56	0.50
CDRH4D22HPNP-560MC	560	56 $\pm$ 20%	810.0(648.2)	0.65	0.52	0.48
CDRH4D22HPNP-680MC	680	68 $\pm$ 20%	913.0(730.4)	0.60	0.48	0.45
CDRH4D22HPNP-820MC	820	82 $\pm$ 20%	1221(977.0)	0.55	0.45	0.40
CDRH4D22HPNP-101MC	101	100 $\pm$ 20%	1370(1096.0)	0.48	0.38	0.35

※1. Inductance measuring condition: at 100kHz.

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

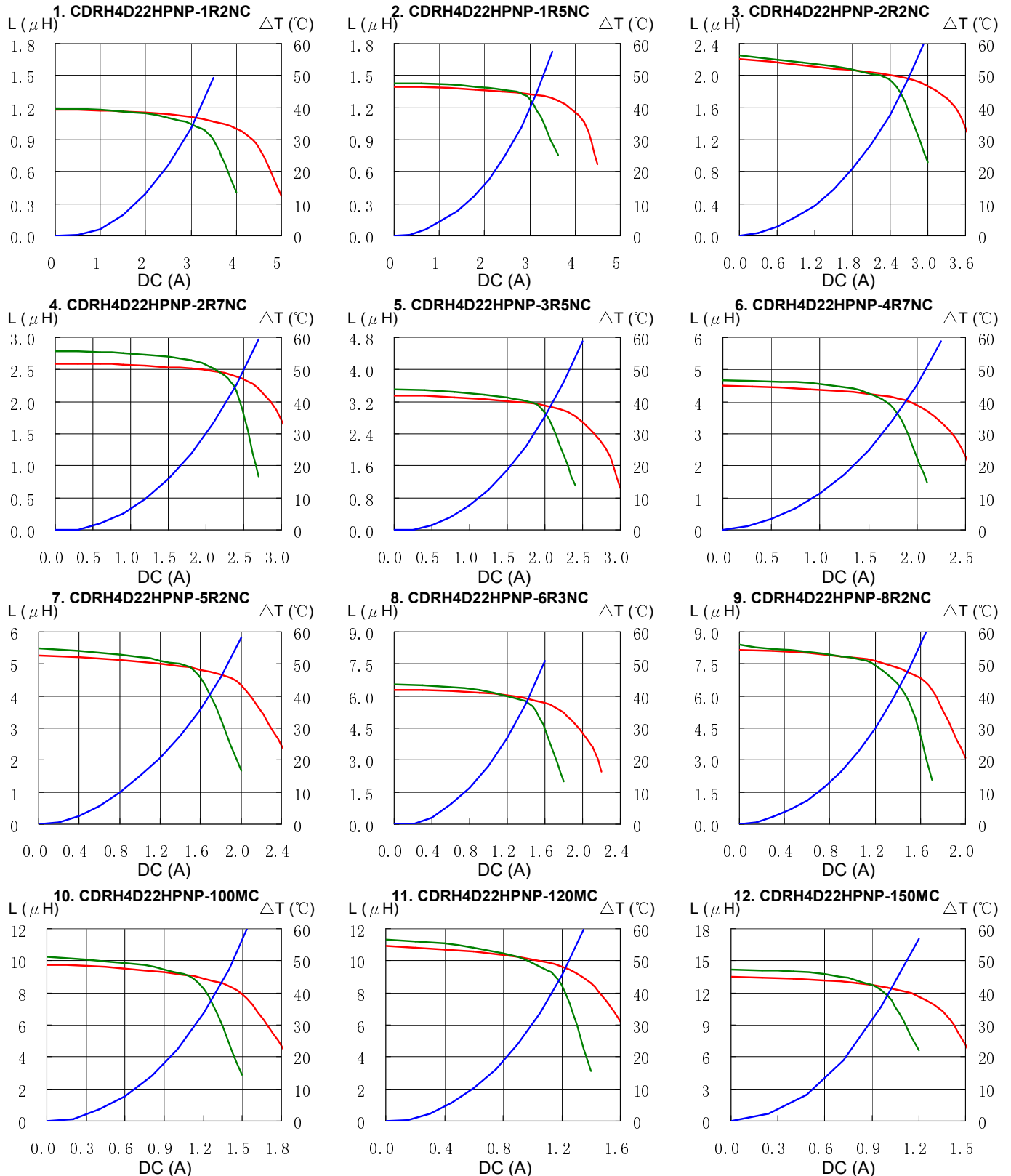
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH4D22/HP

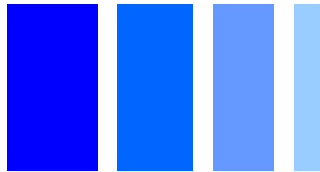


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

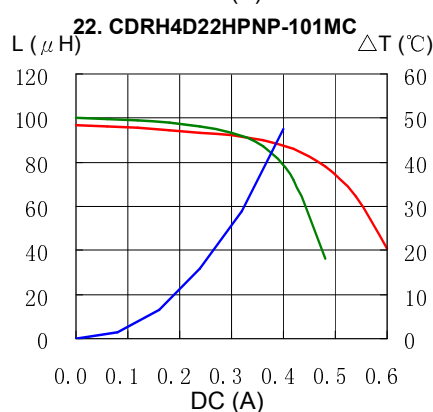
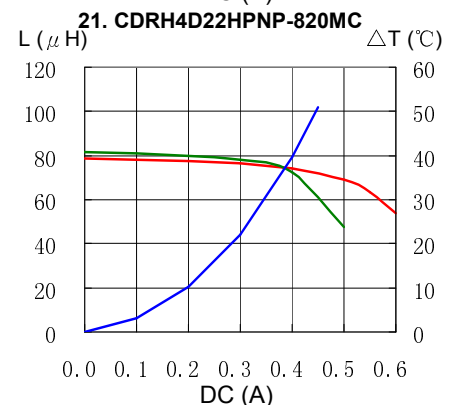
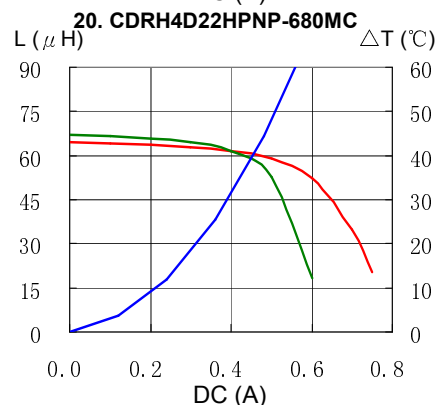
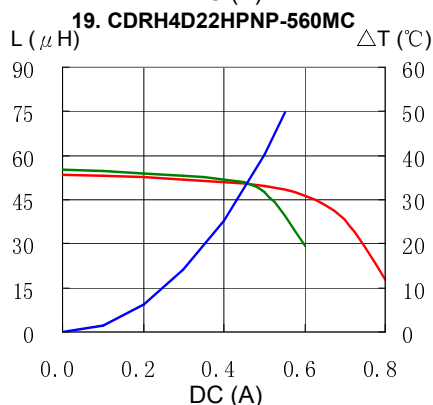
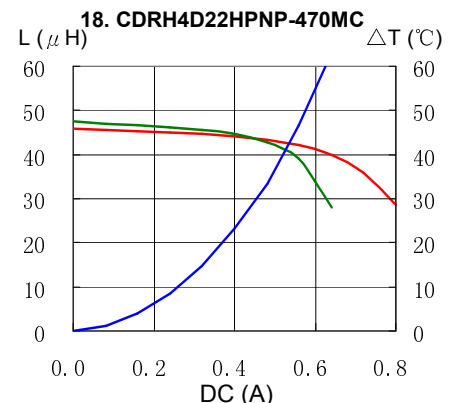
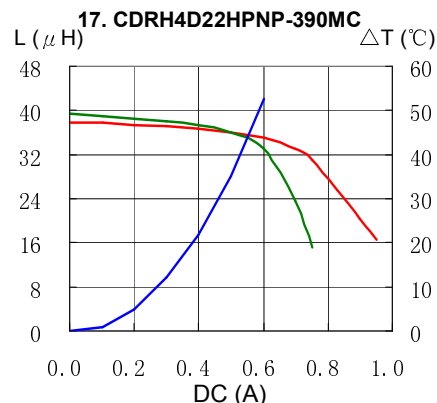
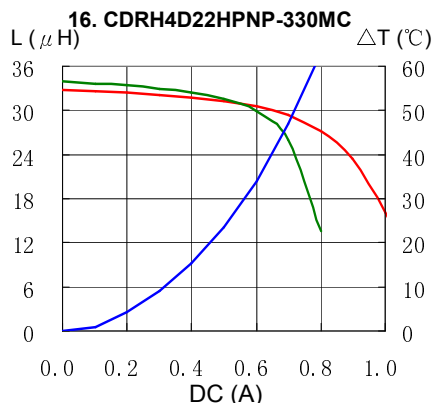
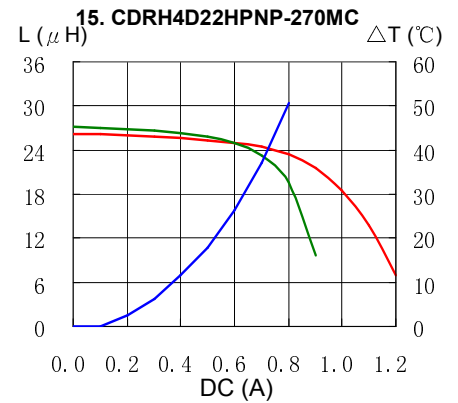
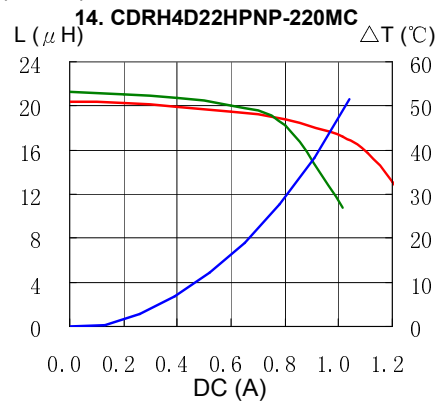
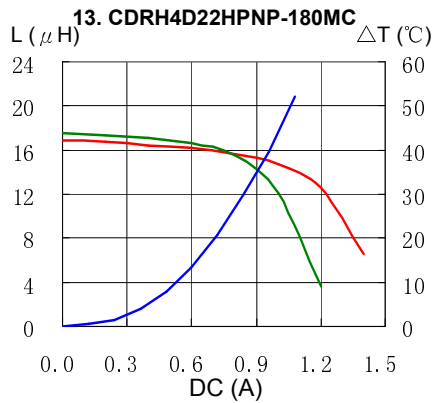


# SMD Power Inductor CDRH4D22/HP



## Saturation Current & Temperature Rise Graph

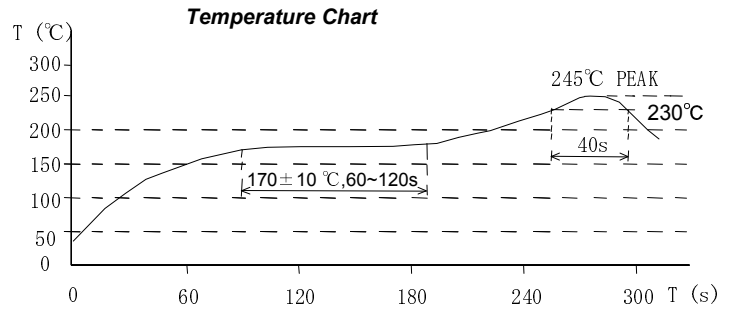
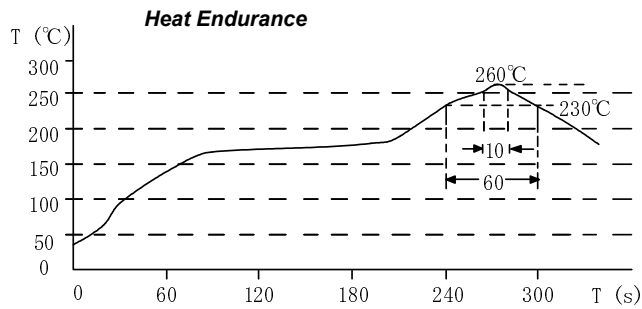
— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor CDRH4D22/HP



## Solder Reflow Condition



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

### Hong Kong

Tel.+852-2880-6688  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

### Tokyo

Tel.+81-3-5202-7112  
FAX.+81-3-5202-7105  
[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.+86-021-5836-3299  
FAX.+86-021-5836-3266  
[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@sumida-eu.com](mailto:contact@sumida-eu.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.+65-6296-3390  
[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)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Sumida:

[CDRH4D22HPNP-2R2NC](#) [CDRH4D22HPNP-560MC](#) [CDRH4D22HPNP-330MC](#) [CDRH4D22HPNP-180MC](#)  
[CDRH4D22HPNP-5R2NC](#) [CDRH4D22HPNP-6R3NC](#) [CDRH4D22HPNP-560NC](#) [CDRH4D22HPNP-220MC](#)  
[CDRH4D22HPNP-120MC](#) [CDRH4D22HPNP-3R5NC](#) [CDRH4D22HPNP-1R5NC](#) [CDRH4D22HPNP-2R7NC](#)  
[CDRH4D22HPNP-100MC](#) [CDRH4D22HPNP-470NC](#) [CDRH4D22HPNP-4R7NC](#) [CDRH4D22HPNP-101MC](#)  
[CDRH4D22HPNP-390NC](#) [CDRH4D22HPNP-680NC](#) [CDRH4D22HPNP-680MC](#) [CDRH4D22HPNP-330NC](#)  
[CDRH4D22HPNP-390MC](#) [CDRH4D22HPNP-1R2NC](#) [CDRH4D22HPNP-150MC](#) [CDRH4D22HPNP-8R2NC](#)  
[CDRH4D22HPNP-820NC](#) [CDRH4D22HPNP-820MC](#) [CDRH4D22HPNP-470MC](#) [CDRH4D22HPNP-270MC](#)