

# SMD Power Inductor CDRH8D43HP



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 4.7 mm Max.
- Product weight: 0.93g(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.

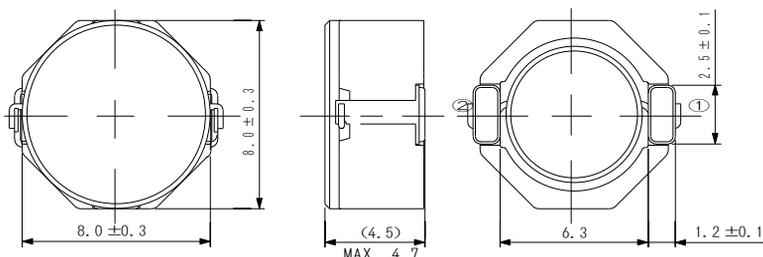
## Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

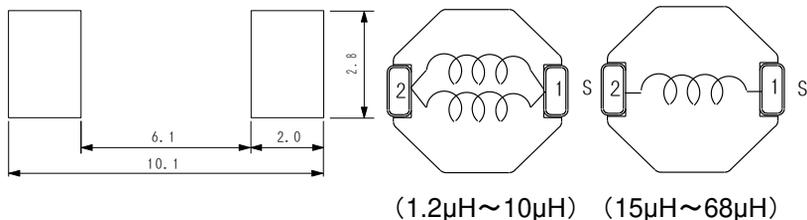
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

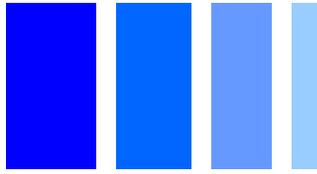
Part Name	Stamp	Inductance (µH) [ within ] ※1	D.C.R. mΩ Max. (Typ.) at 20°C	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH8D43HPNP-1R2NC	1R2	1.2±30%	16.5(12.3)	12.6	10.8	5.6
CDRH8D43HPNP-2R7NC	2R7	2.7±30%	19.5(15.9)	8.6	7.0	5.1
CDRH8D43HPNP-4R7NC	4R7	4.7±30%	27.0(20.7)	6.2	5.2	3.9
CDRH8D43HPNP-6R8NC	6R8	6.8±30%	36.0(31.2)	5.6	4.5	3.3
CDRH8D43HPNP-100NC	100	10±30%	53.0(44.4)	4.3	3.5	2.5
CDRH8D43HPNP-150NC	150	15±30%	75.0(64.4)	3.7	2.9	2.0
CDRH8D43HPNP-220NC	220	22±30%	125(103)	3.0	2.4	1.5
CDRH8D43HPNP-330NC	330	33±30%	150(123)	2.5	2.0	1.4
CDRH8D43HPNP-470NC	470	47±30%	238(183)	2.0	1.6	1.2
CDRH8D43HPNP-680NC	680	68±30%	363(294)	1.6	1.4	0.8

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

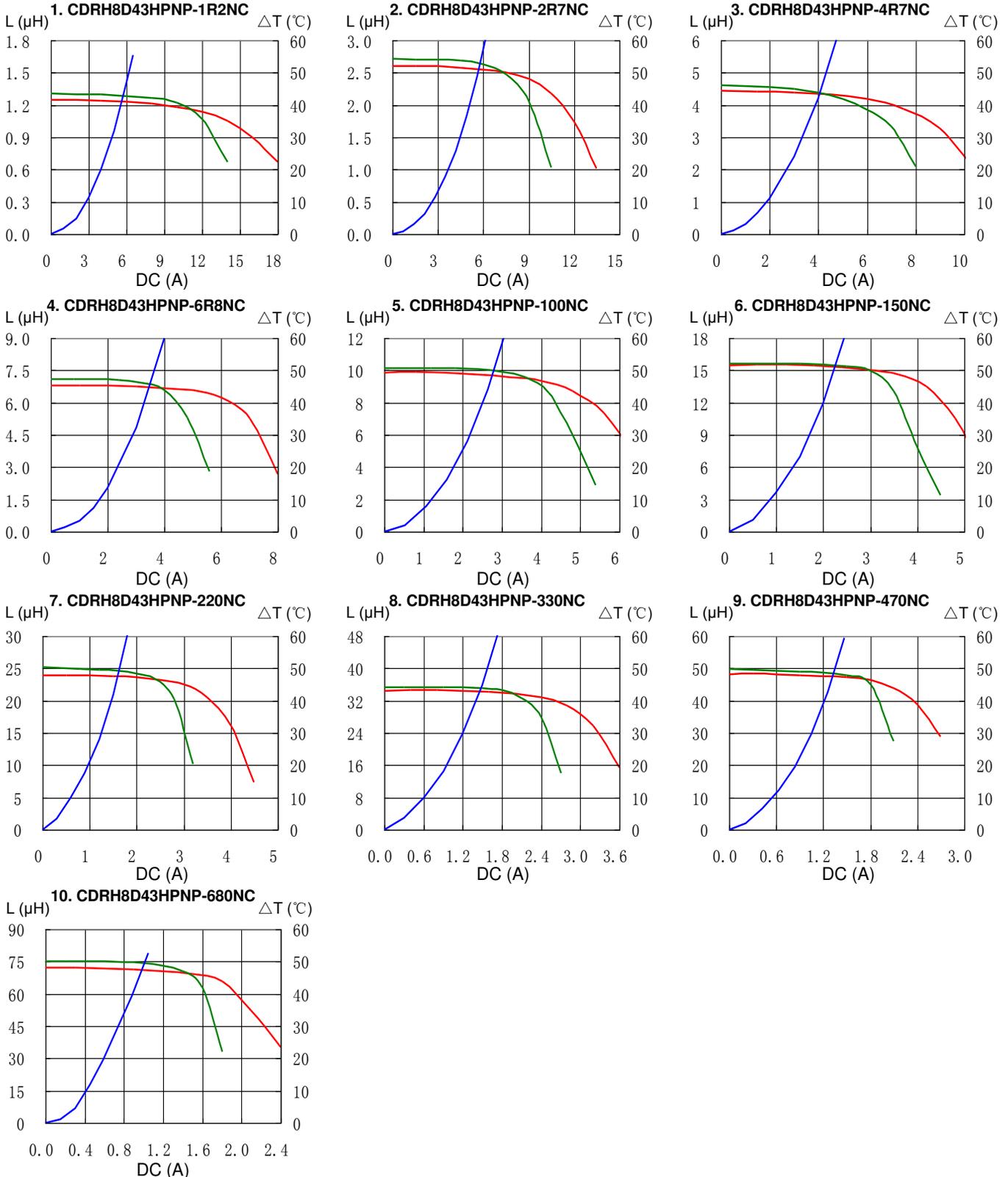
※3. Temperature rise current: The DC current at which the temperature rise is Δt=40°C.(Ta=20°C)

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

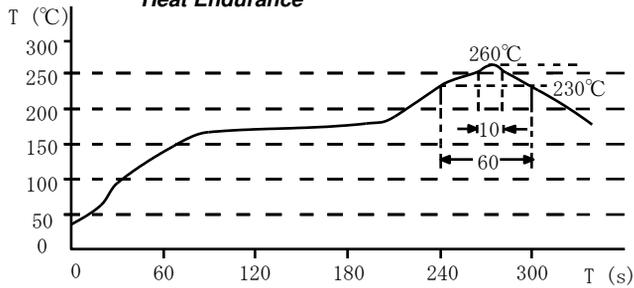


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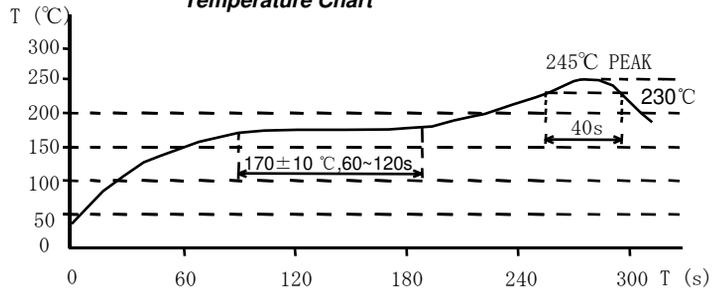


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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)

### 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)