

# SMD Power Inductor CDRH70D43D



**sumida**

*Under Development*



**Halogen  
Free**



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.3 × 7.3 × 4.5 mm Max.
- Product weight: 0.75g(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.

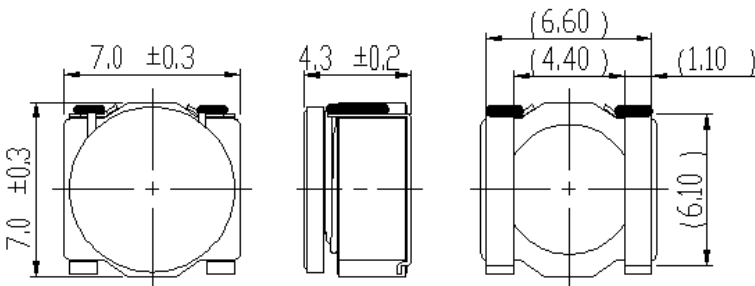
### Packaging

- Carrier tape and reel packaging

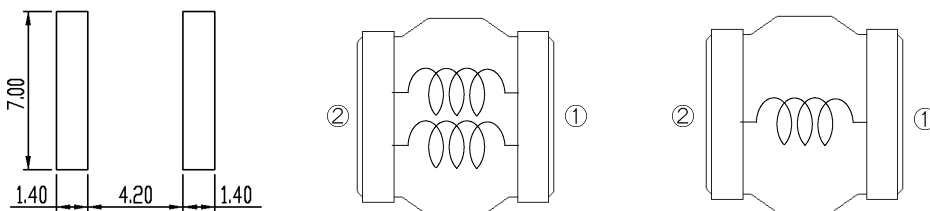
### Applications

- Ideally used in Hard disk-related, power supply for TV and game machine etc.

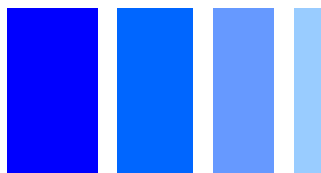
### Dimension - [mm]



### Land pattern and Schematics - [mm]



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## Electrical Characteristics

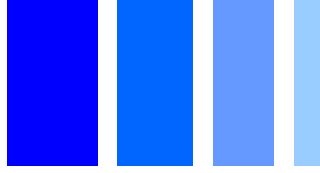
Part Name	Stamp	Inductance (uH) [within] ※1	D.C.R. (mΩ) [Max.] (Typ.)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				at 20°C	at 105°C	
CDRH70D43DNP-2R0PC	2R0	2.0 μH ± 25%	14.4(11.5)	6.60	5.50	7.60
CDRH70D43DNP-3R6PC	3R6	3.6 μH ± 25%	19.4(15.5)	4.80	4.00	6.00
CDRH70D43DNP-4R7PC	4R7	4.7 μH ± 25%	23.8(19)	4.20	3.30	5.20
CDRH70D43DNP-7R5MC	7R5	7.5 μH ± 20%	35.0(28)	3.50	2.80	4.00
CDRH70D43DNP-100MC	100	10.0 μH ± 20%	42.5(34)	2.90	2.40	3.60
CDRH70D43DNP-150MC	150	15.0 μH ± 20%	63.1(50.5)	2.40	2.00	2.70
CDRH70D43DNP-220MC	220	22.0 μH ± 20%	85(68)	2.00	1.65	2.25
CDRH70D43DNP-330MC	330	33.0 μH ± 20%	105(84)	1.60	1.35	2.15
CDRH70D43DNP-470MC	470	47.0 μH ± 20%	155(124)	1.30	1.10	1.65
CDRH70D43DNP-680MC	680	68.0 μH ± 20%	241(193)	1.10	0.90	1.30
CDRH70D43DNP-101MC	101	100.0 μH ± 20%	362(290)	0.90	0.78	1.02

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of its nominal value.

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

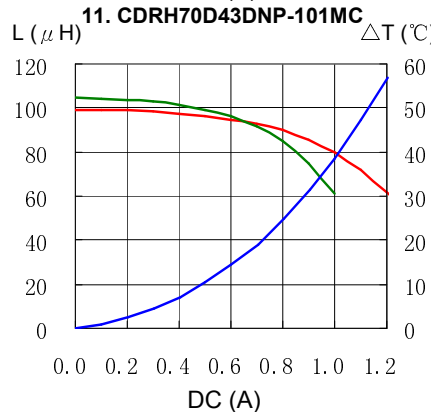
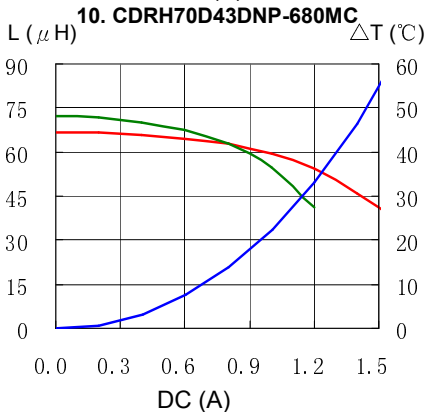
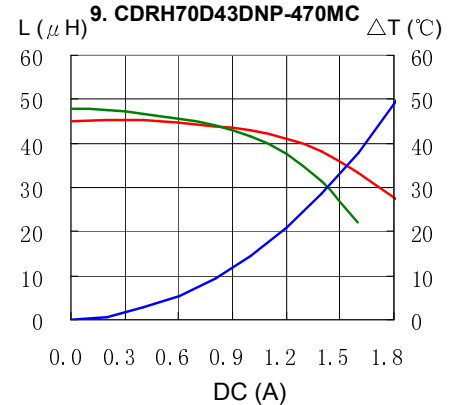
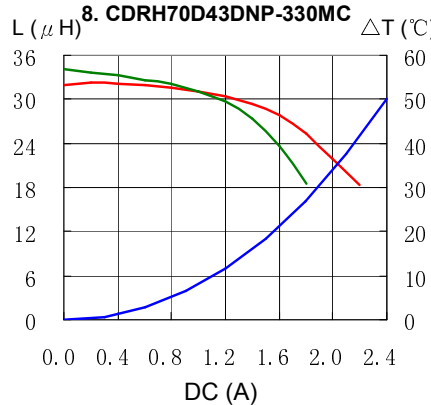
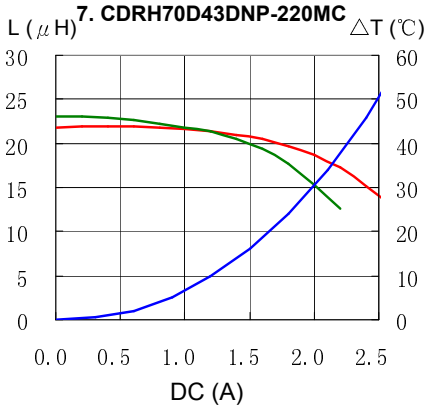
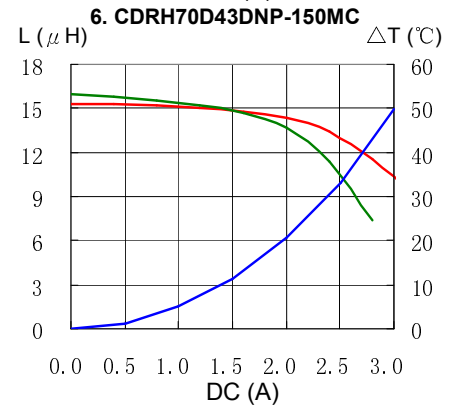
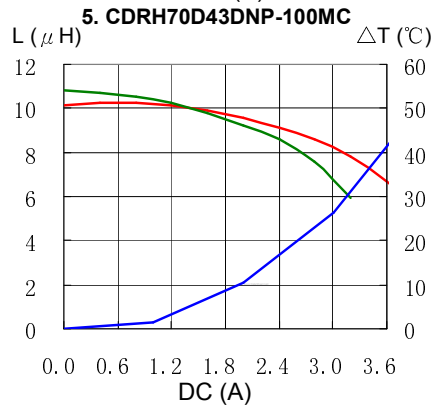
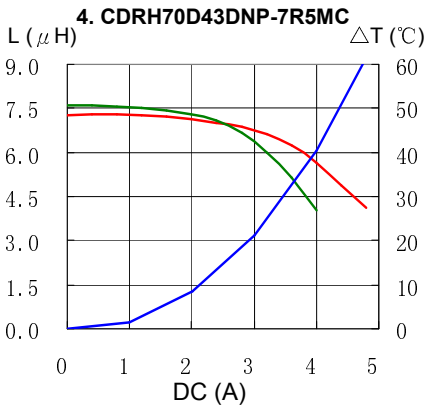
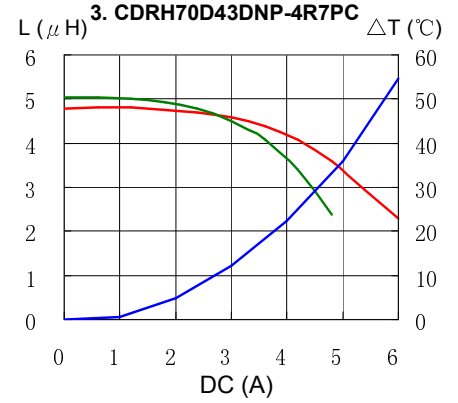
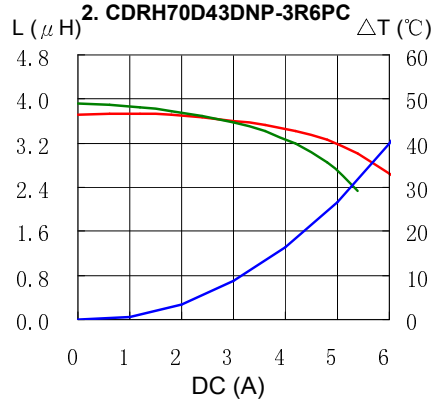
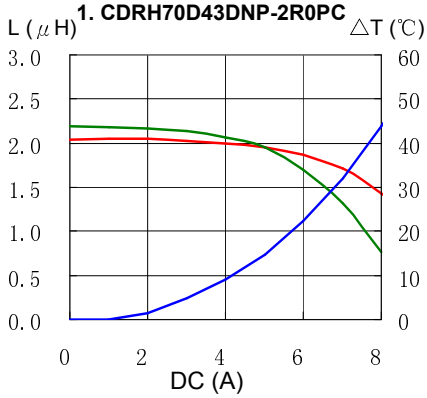
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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



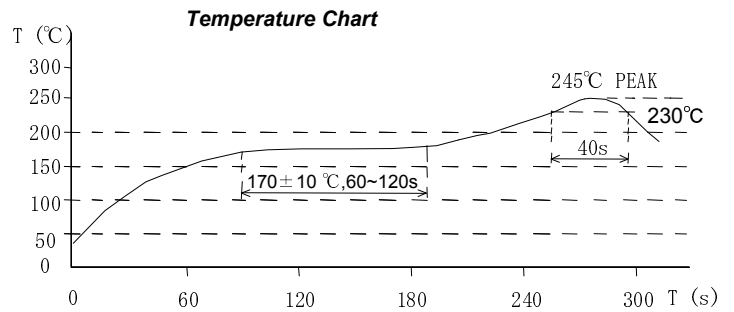
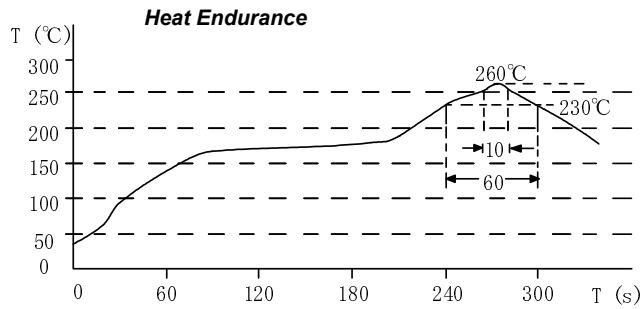
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## Solder Reflow Condition



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### 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)