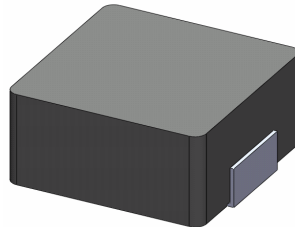


# SMD Power Inductor 0530CDMCC/DS



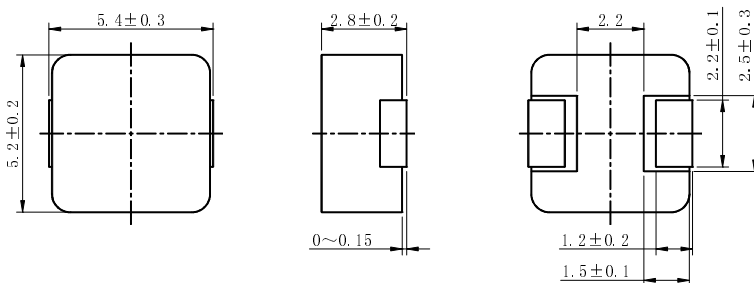
Halogen Free



## Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L × W × H: 5.7 × 5.4 × 3.0mm Max.
- Product weight: 0.43g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Dimension - [mm]



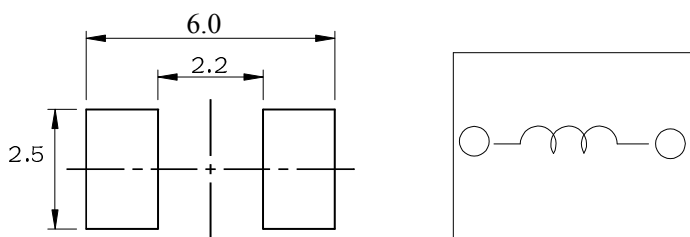
## Environmental Data

- Operating temperature range: -55°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -55°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

## Packaging

- Carrier tape and reel packaging.
- 2000pcs/Reel.

## Land pattern and Schematics - [mm]



## Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, Server application.
- High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

# SMD Power Inductor 0530CDMCC/DS



## Electrical Characteristics

Part No.	Stamp	Inductance [Within]( $\mu$ H) ※1	D.C.R (m $\Omega$ ) at 25°C Max.(typ.)	Saturation Current (A)※2 Max.(Typ.)	Temperature rise current (A)※3 (Typ.)
0530CDMCCDS-R20MC	R20	0.20 $\pm$ 20%	3.9(3.5)	18.7(22.0)	14.0
0530CDMCCDS-R47MC	R47	0.47 $\pm$ 20%	8.5(7.4)	15.3(18.0)	10.5
0530CDMCCDS-R68MC	R68	0.68 $\pm$ 20%	12.0(11.0)	11.9(14.0)	9.6
0530CDMCCDS-1R0MC	1R0	1.0 $\pm$ 20%	14.0(13.0)	10.2(12.0)	9.4
0530CDMCCDS-1R2MC	1R2	1.2 $\pm$ 20%	16.0(15.0)	11.5(13.5)	8.7
0530CDMCCDS-1R5MC	1R5	1.5 $\pm$ 20%	25.0(20.0)	11.1(13.0)	7.2
0530CDMCCDS-2R2MC	2R2	2.2 $\pm$ 20%	29.0(25.0)	7.6(9.0)	5.8
0530CDMCCDS-3R3MC	3R3	3.3 $\pm$ 20%	38.0(32.0)	6.8(8.0)	5.1
0530CDMCCDS-4R7MC	4R7	4.7 $\pm$ 20%	60.0(50.0)	5.1(6.0)	3.8
0530CDMCCDS-6R8MC	6R8	6.8 $\pm$ 20%	90.0(75.0)	3.8(4.5)	3.3
0530CDMCCDS-100MC	100	10 $\pm$ 20%	125(110)	3.4(4.0)	2.8

※1 Measuring frequency Inductance at 100kHz ,1.0V

※2 Saturation current: The value of DC current when the inductance is over 70% of its initial value. (at 25°C )

※3 Temperature rise current: The actual value of DC current when temperature of coil rise is

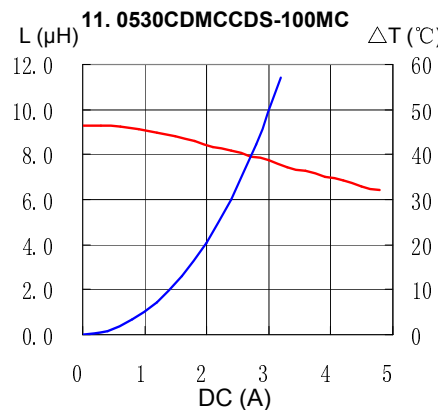
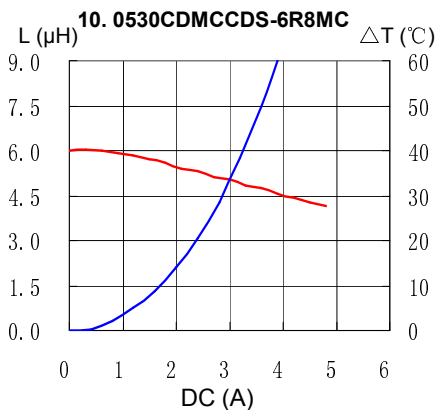
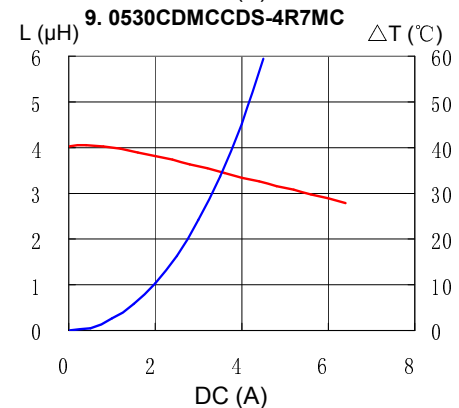
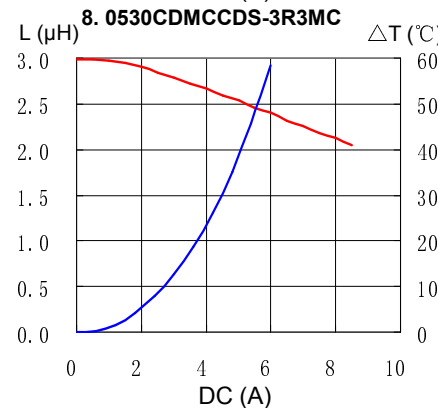
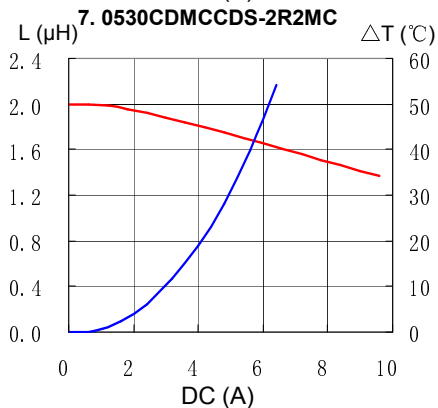
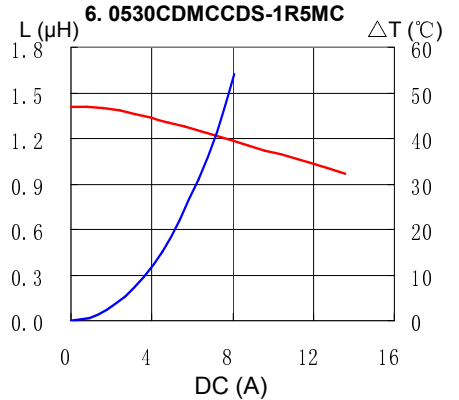
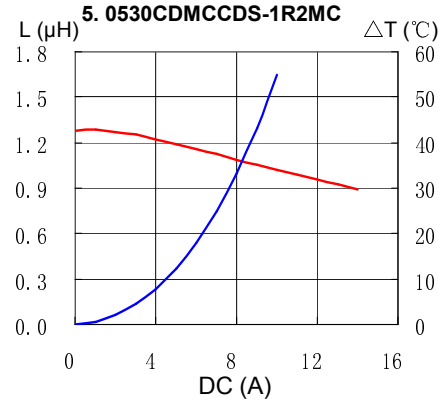
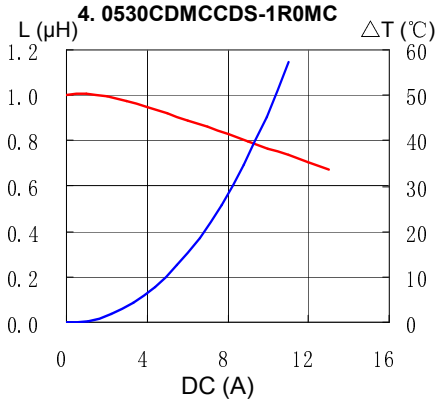
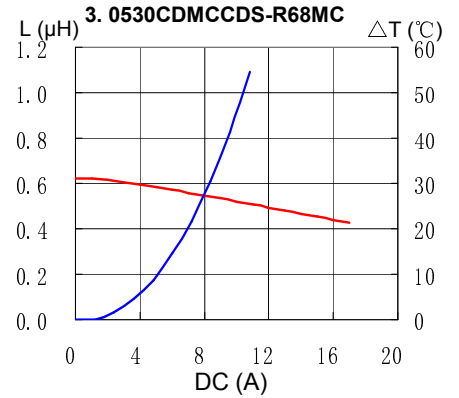
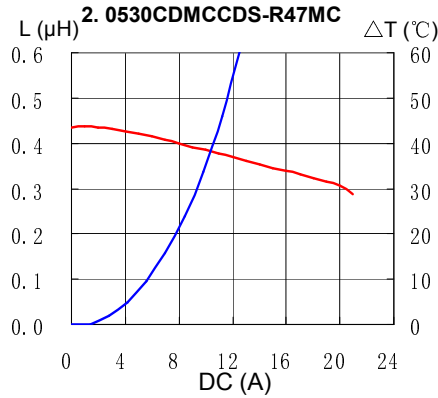
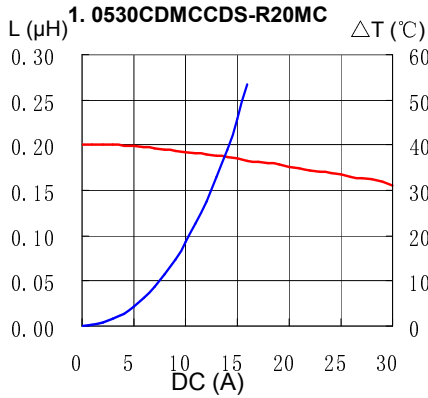
$\Delta T=40^{\circ}\text{C}$ ( $T_a=25^{\circ}\text{C}$ ) Board conditions: FR4, Copper=70 $\mu\text{m}$ ,four-layer PWB, t=1.6mm.

# SMD Power Inductor 0530CDMCC/DS



## Saturation Current & Temperature Rise Graph

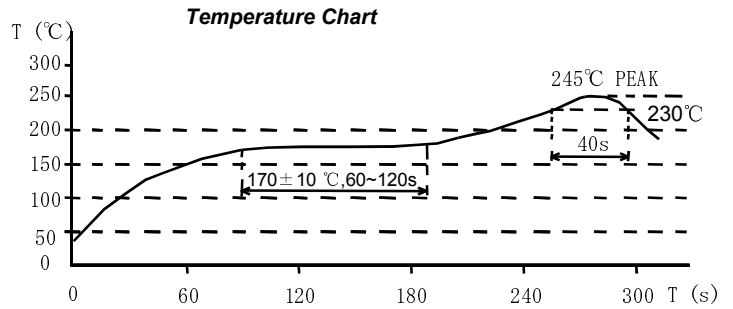
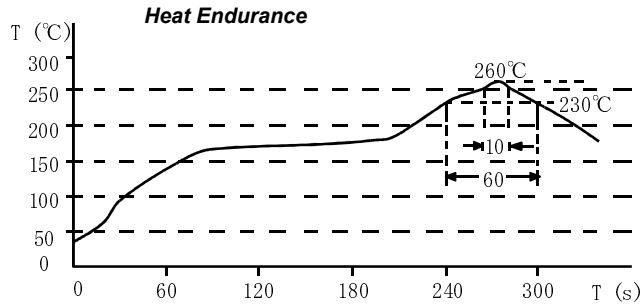
— L (20°C)    —  $\Delta T$



# SMD Power Inductor 0530CDMCC/DS



## 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)

### Oberzell

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)