

# SMD Power Inductor 0420CDMC/DS



Halogen Free

## Description

- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 2.0 mm Max.
- Product weight: 0.17g(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.

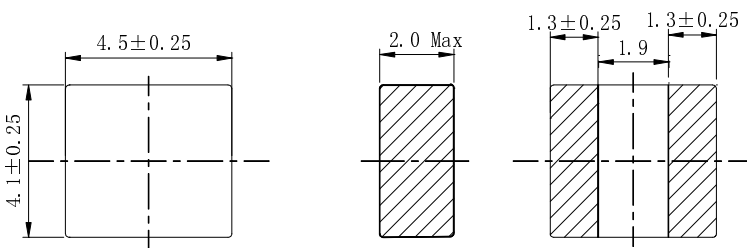
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 3000pcs per reel

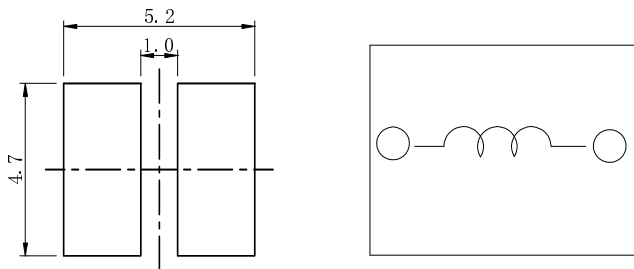
## Applications

- Ideally used in notebook, ultra book, tablet PC, LCD display, SSD and other low profile high current application.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part No.	Stamp	Inductance [Within]( $\mu$ H) ※1	D.C.R (m $\Omega$ ) at 25°C	Saturation current [Typ.](A) ※2	Temperature rise current [Typ.](A) Thermocouple Method ※3
0420CDMCDS-R22MC	R22	0.22 ± 20%	5.3 ± 20%	15.0	10.0
0420CDMCDS-R33MC	R33	0.33 ± 20%	6.0 ± 20%	12.6	8.9
0420CDMCDS-R47MC	R47	0.47 ± 20%	8.2 ± 20%	11.0	8.1
0420CDMCDS-1R0MC	1R0	1.0 ± 20%	17 ± 20%	6.8	5.5
0420CDMCDS-1R5MC	1R5	1.5 ± 20%	23 ± 20%	5.8	5.1
0420CDMCDS-2R2MC	2R2	2.2 ± 20%	35 ± 20%	4.5	4.7
0420CDMCDS-3R3MC	3R3	3.3 ± 20%	49 ± 20%	4.1	3.5
0420CDMCDS-4R7MC	4R7	4.7 ± 20%	67 ± 20%	3.4	3.1
0420CDMCDS-6R8MC	6R8	6.8 ± 20%	91 ± 20%	2.8	2.6
0420CDMCDS-100MC	100	10.0 ± 20%	148 ± 20%	2.3	2.1
0420CDMCDS-220MC	220	22.0 ± 20%	316 ± 20%	1.6	1.5

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of DC current when the inductance is over 80% of the initial value. (at 25°C)

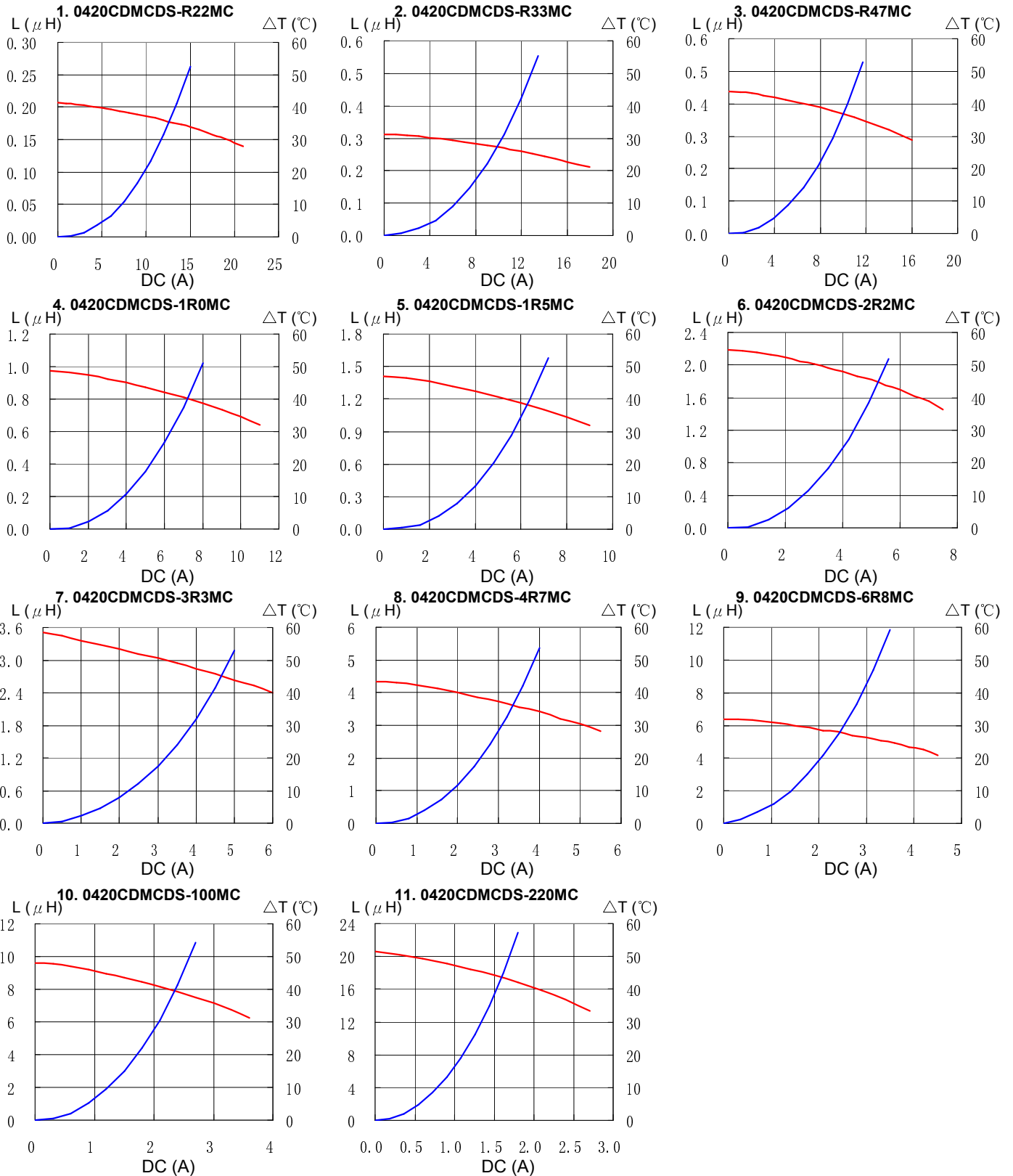
※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is  $\Delta T = 40^\circ\text{C}$  ( $T_a = 25^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

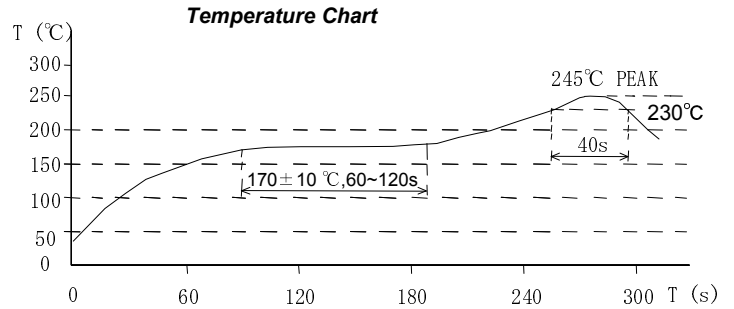
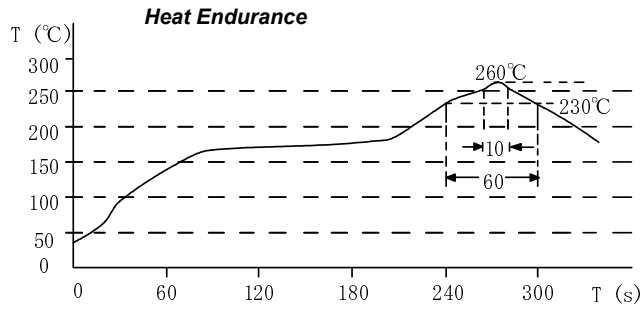
— L (20°C)      —  $\Delta T$



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## Solder Reflow Condition



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

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