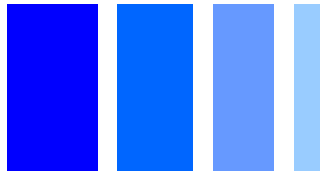


# SMD Power Inductor 0420CDMCB/DS



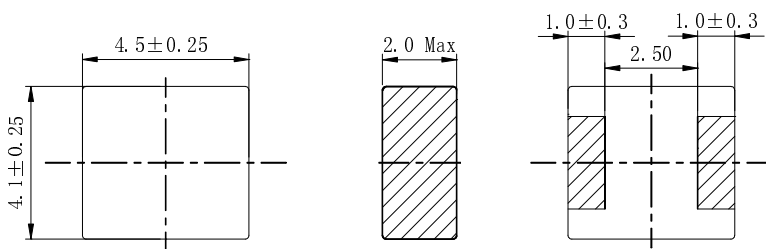
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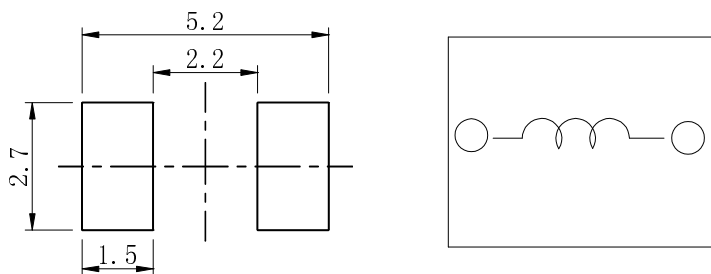
## Description

- 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.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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 notebook, ultra book, tablet PC, LCD display, SSD and other low profile high current application.

## Electrical Characteristics

Part. No	Stamp	Inductance (uH) [ within ] ※1	D.C.R (mΩ) [ within ]	Saturation Current (A) (typ.) ※2	Temperature rise current (A) (typ.) Thermocouple Method ※3
0420CDMCBDS-R22MC	R22	0.22 ± 20%	5.3 ± 20%	15.0	10.1
0420CDMCBDS-R33MC	R33	0.33 ± 20%	6.0 ± 20%	12.6	8.9
0420CDMCBDS-R47MC	R47	0.47 ± 20%	8.2 ± 20%	11.0	8.1
0420CDMCBDS-1R0MC	1R0	1.0 ± 20%	17 ± 20%	6.8	5.5
0420CDMCBDS-1R5MC	1R5	1.5 ± 20%	23 ± 20%	5.8	4.9
0420CDMCBDS-2R2MC	2R2	2.2 ± 20%	35 ± 20%	4.5	3.9
0420CDMCBDS-3R3MC	3R3	3.3 ± 20%	49 ± 20%	4.1	3.3
0420CDMCBDS-4R7MC	4R7	4.7 ± 20%	67 ± 20%	3.4	2.9
0420CDMCBDS-6R8MC	6R8	6.8 ± 20%	91 ± 20%	2.8	2.4
0420CDMCBDS-100MC	100	10.0 ± 20%	148 ± 20%	2.3	1.9
0420CDMCBDS-220MC	220	22.0 ± 20%	316 ± 20%	1.6	1.3

※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 ΔT=40°C (Ta=25°C).

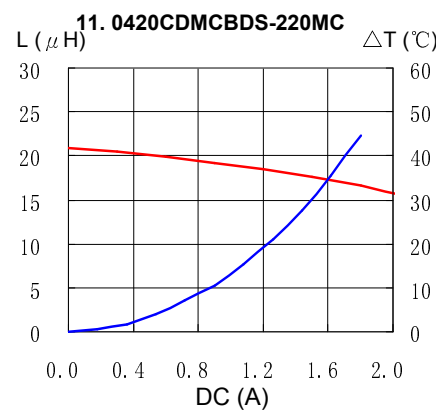
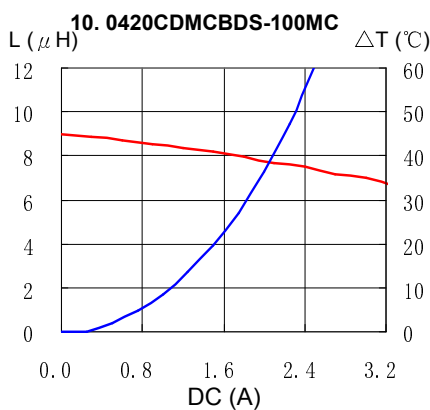
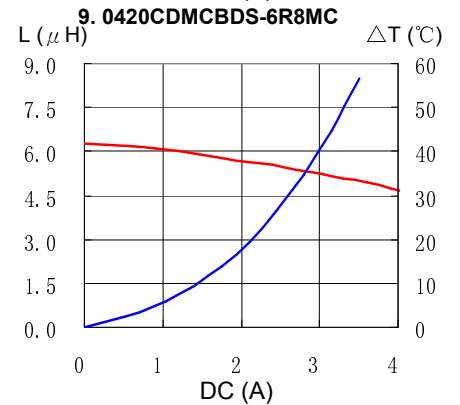
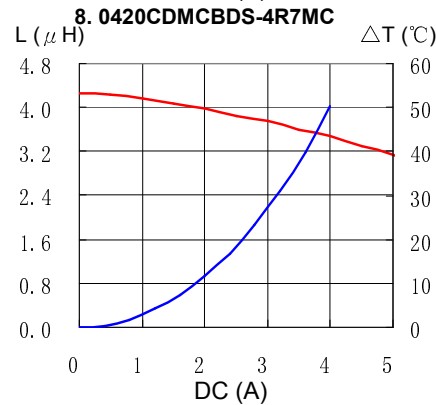
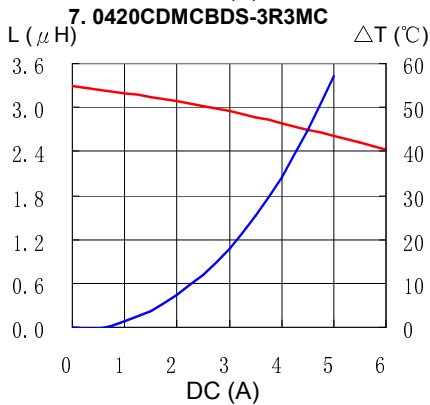
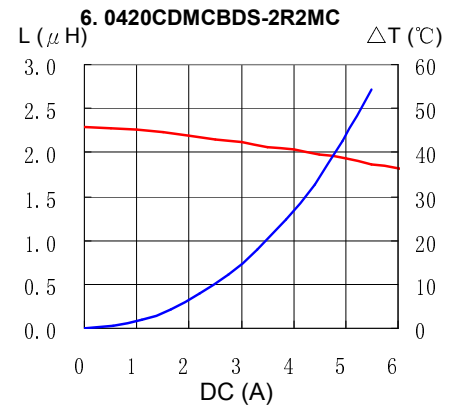
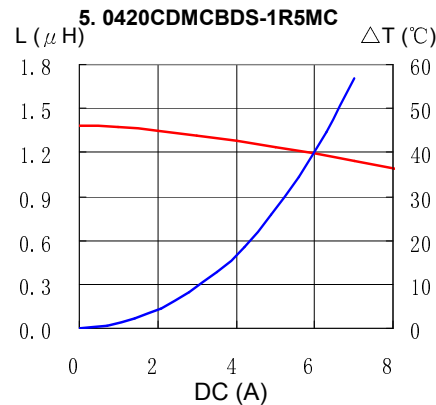
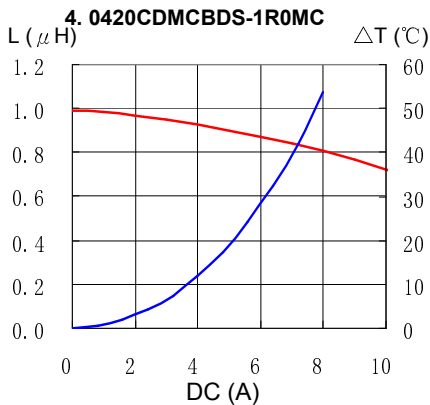
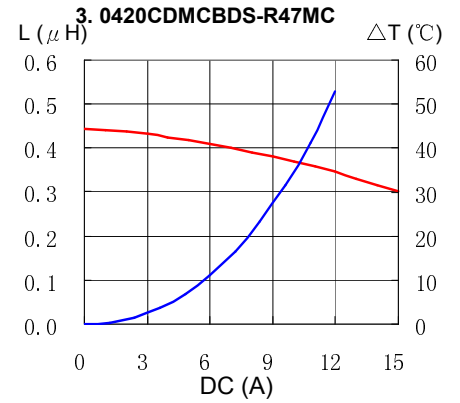
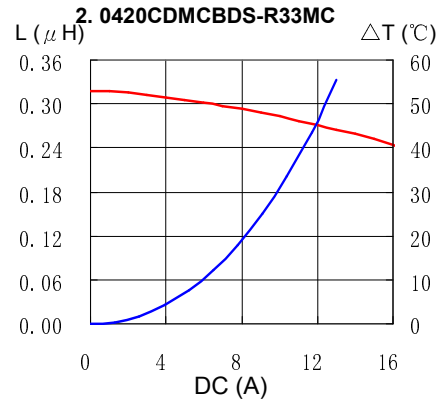
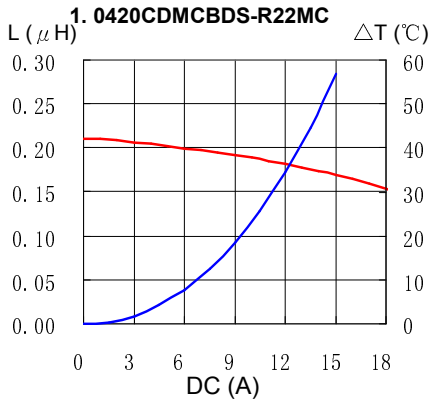
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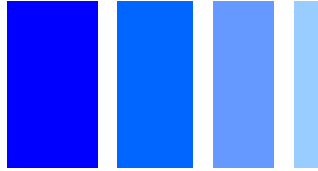
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## Saturation Current & Temperature Rise Graph

— L (20°C)      —  $\Delta T$



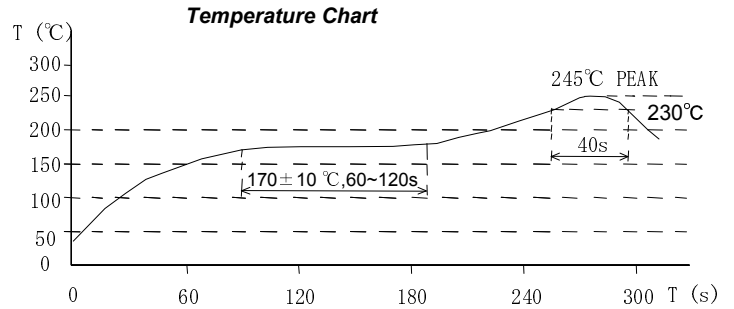
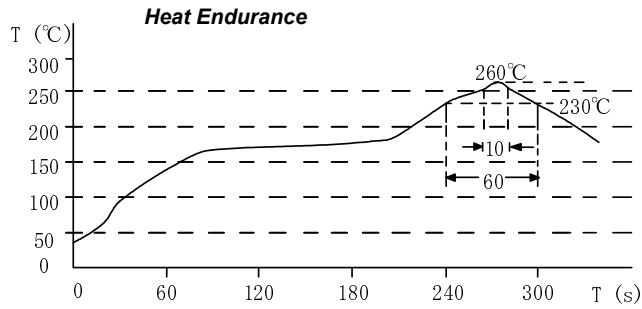
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## Solder Reflow Condition



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