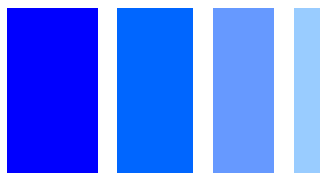


# SMD Power Inductor 0420CDMCB/DS



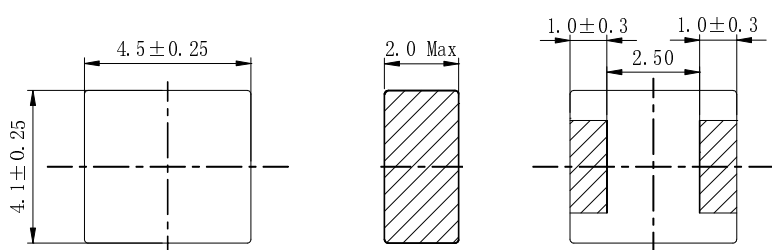
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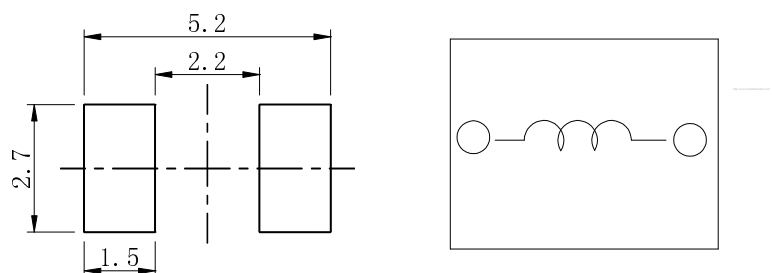
## Description

- 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).

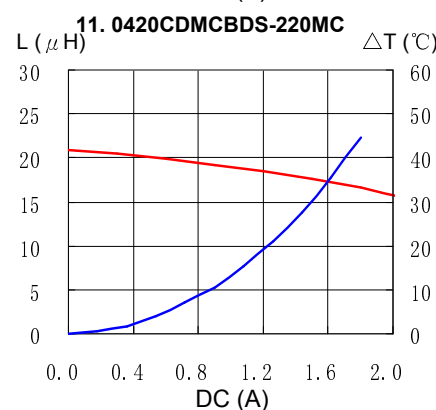
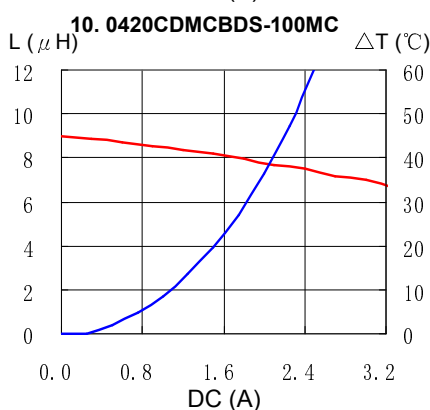
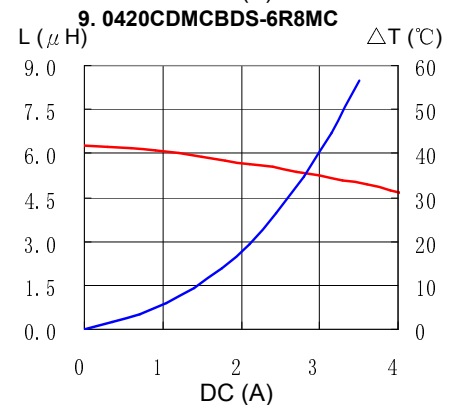
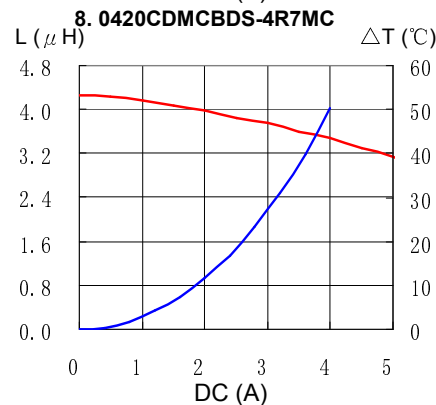
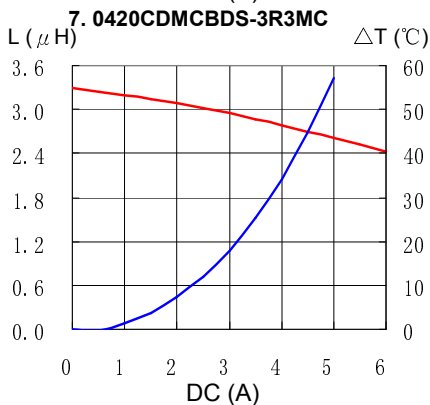
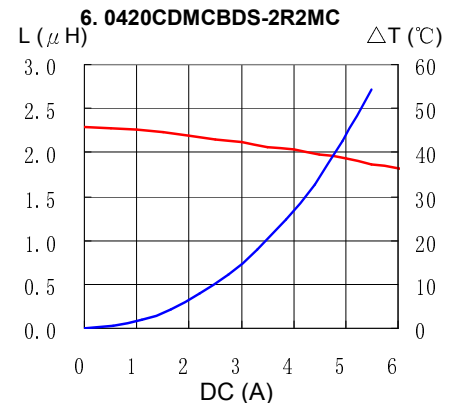
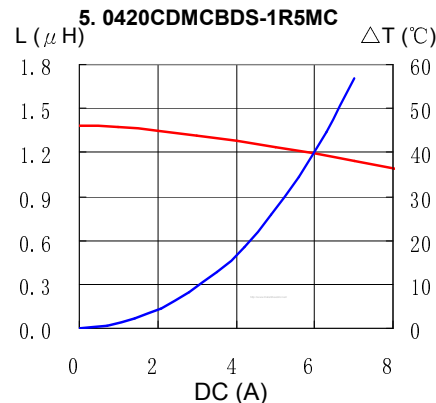
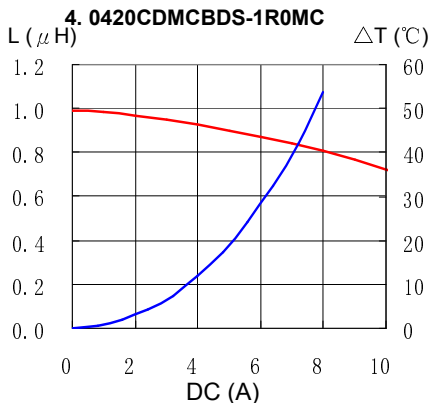
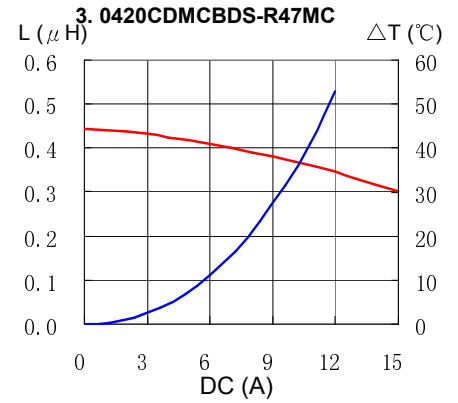
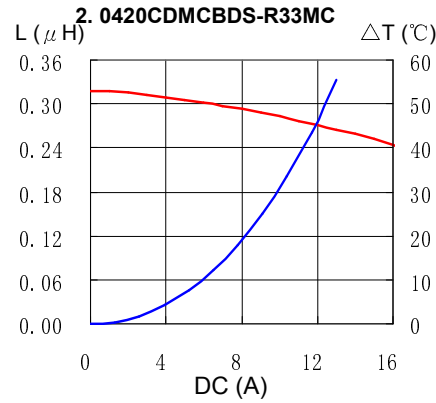
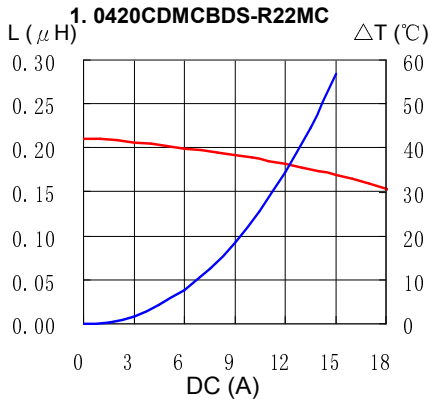
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## Saturation Current & Temperature Rise Graph

— L (20°C)      —  $\Delta T$



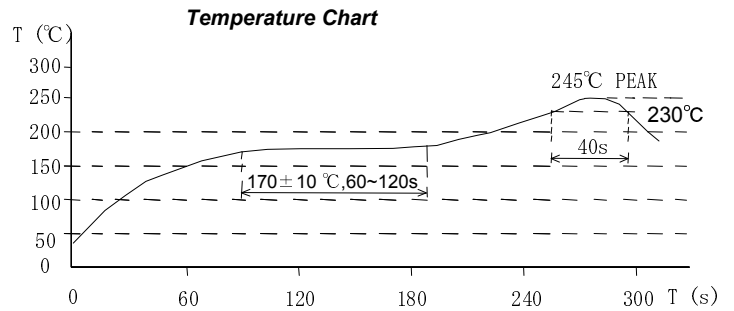
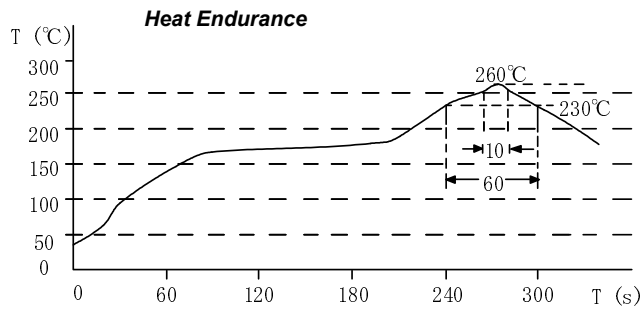
# SMD Power Inductor 0420CDMCB/DS



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## Solder Reflow Condition



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