



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SMD Power Inductor 0420CDMCB/DS

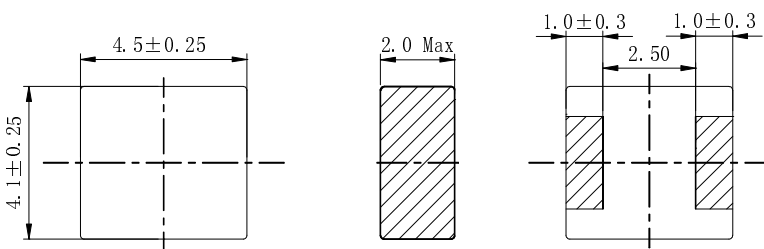


Under Development

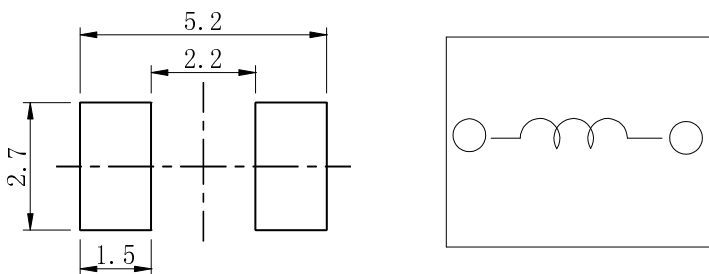


**Halogen
Free**

Dimension - [mm]



Land pattern and Schematics - [mm]



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.

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).

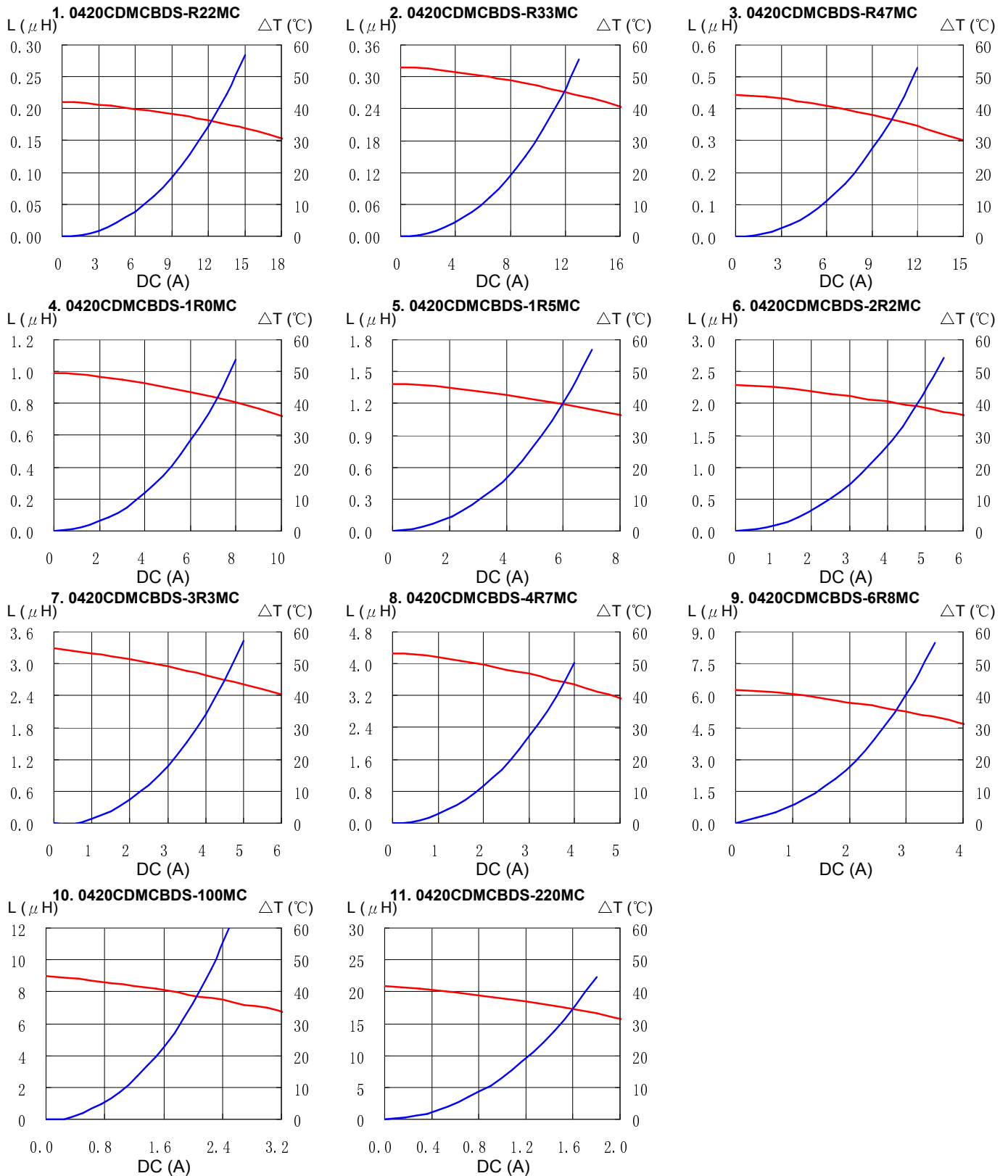
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



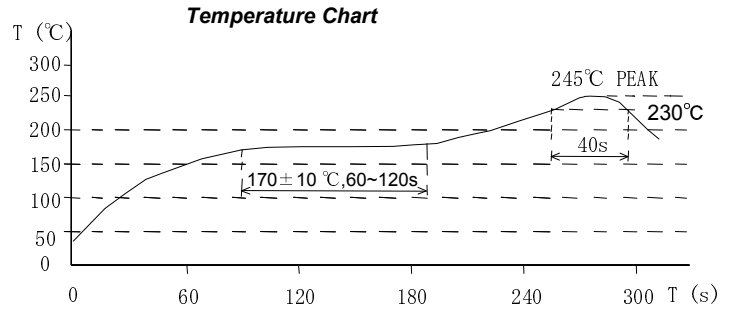
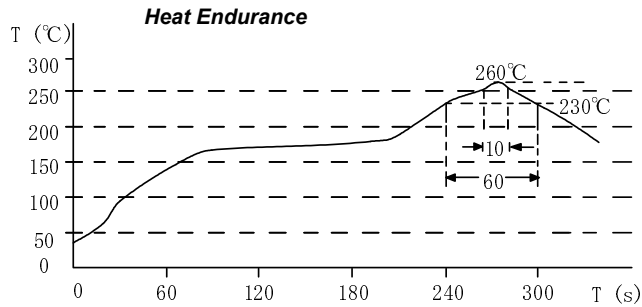
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Solder Reflow Condition



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