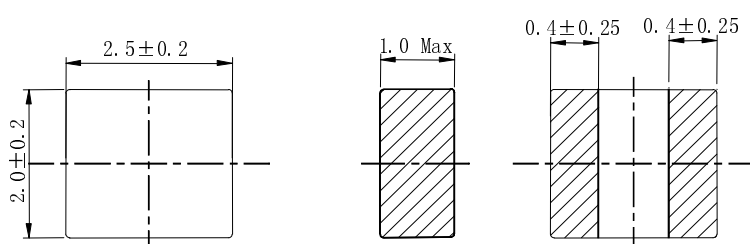


SMD Power Inductor 252010CDMC/DS

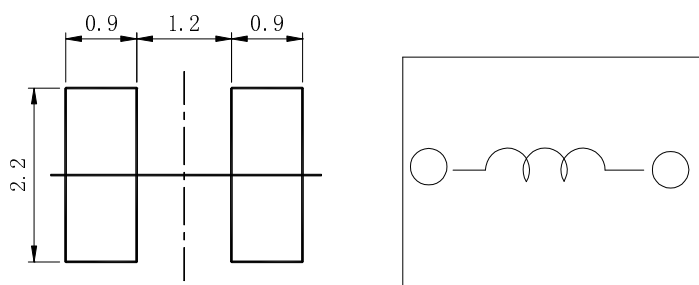


**Halogen
Free**

Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Magnetically shielded.
- L × W × H: 2.7 × 2.2 × 1.0 mm Max.
- Product weight: 30mg(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.
- 7.1" diameter reel
- 3000pcs per reel

Applications

- Ideally used in smart phone, tablet PC, SSD USB3.0 and other low profile high current application.

Electrical Characteristics

Part No.	Inductance [Within] (μ H) ※1	D. C. R [Within] (m Ω) at 25°C	Saturation current Max. (Typ.) (A) ※2	Temperature rise current Max. (Typ.) (A) Thermocouple Method ※3
252010CDMCDS-R47MC	0.47 ± 20%	28 ± 20%	4.4 (5.5)	3.6 (4.1)
252010CDMCDS-1R0MC	1.0 ± 20%	50 ± 20%	3.0 (4.0)	2.7 (3.0)
252010CDMCDS-1R5MC	1.5 ± 20%	80 ± 20%	2.6 (3.5)	2.1 (2.4)
252010CDMCDS-2R2MC	2.2 ± 20%	103 ± 20%	2.2 (2.7)	2.0 (2.2)
252010CDMCDS-3R3MC	3.3 ± 20%	190 ± 20%	1.6 (2.2)	1.2 (1.6)
252010CDMCDS-4R7MC	4.7 ± 20%	240 ± 20%	1.4 (1.9)	1.0 (1.4)

※1. Inductance measuring condition: at 1MHz.

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

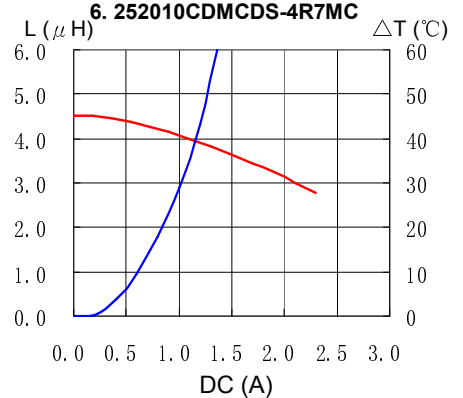
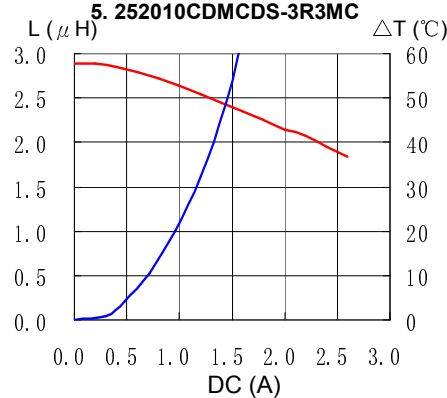
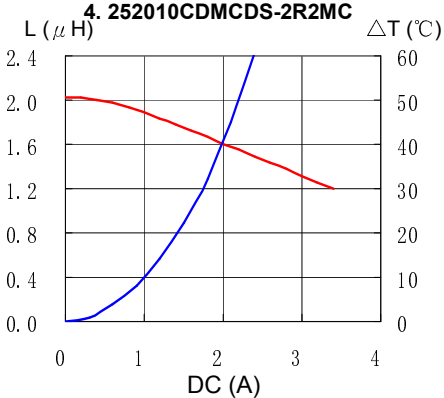
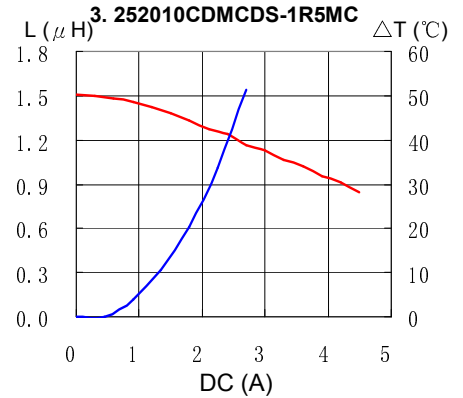
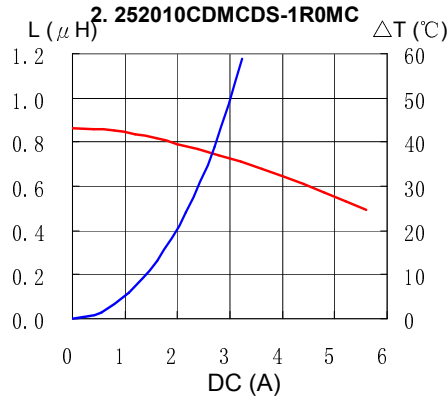
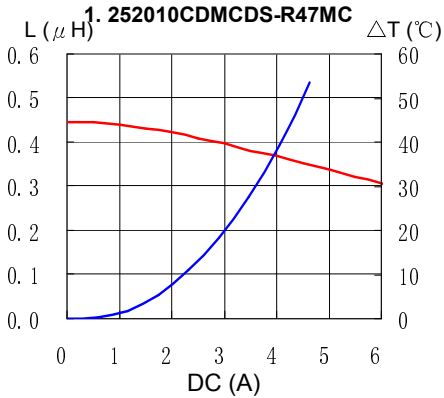
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

SMD Power Inductor 252010CDMC/DS

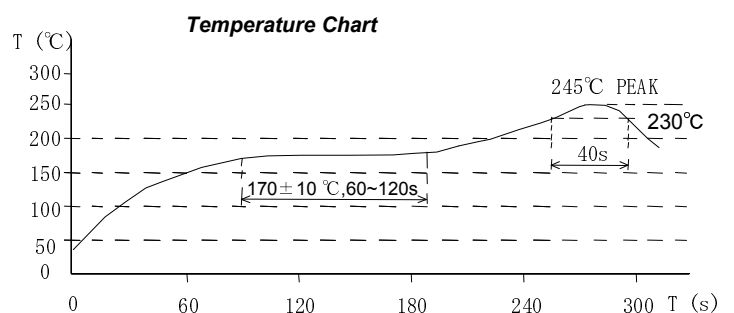
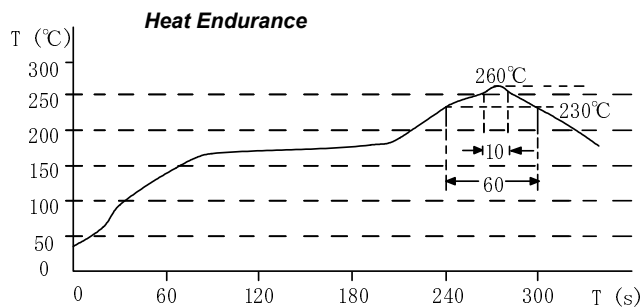


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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