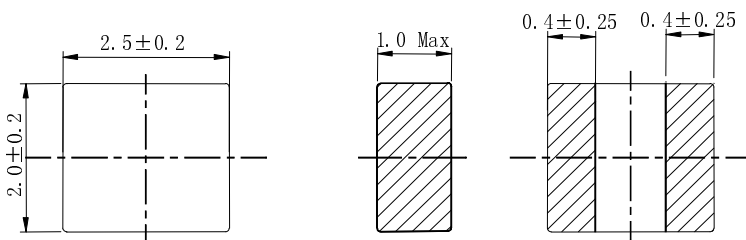


SMD Power Inductor 252010CDMC/DS

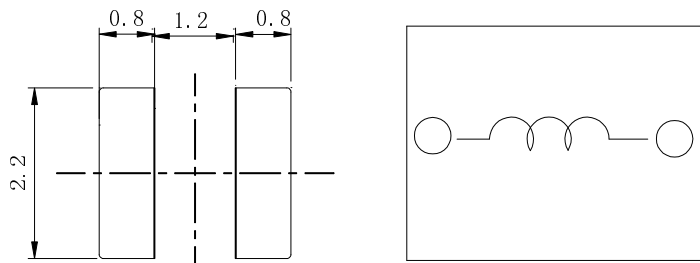


Halogen Free

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 (μ H) [Within] ※1	D.C.R (m Ω) [within] at 25°C	Saturation Current (A) ※2 (Max.)	Temperature rise current [Typ.] (A) Thermocouple Method ※3
252010CDMCDS-R47MC	0.47 ± 20%	28 ± 20%	4.4	4.1
252010CDMCDS-1R0MC	1.0 ± 20%	50 ± 20%	3.2	3.0
252010CDMCDS-1R5MC	1.5 ± 20%	80 ± 20%	2.6	2.4
252010CDMCDS-2R2MC	2.2 ± 20%	103 ± 20%	2.4	2.2
252010CDMCDS-3R3MC	3.3 ± 20%	190 ± 20%	1.6	1.6
252010CDMCDS-4R7MC	4.7 ± 20%	240 ± 20%	1.4	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)

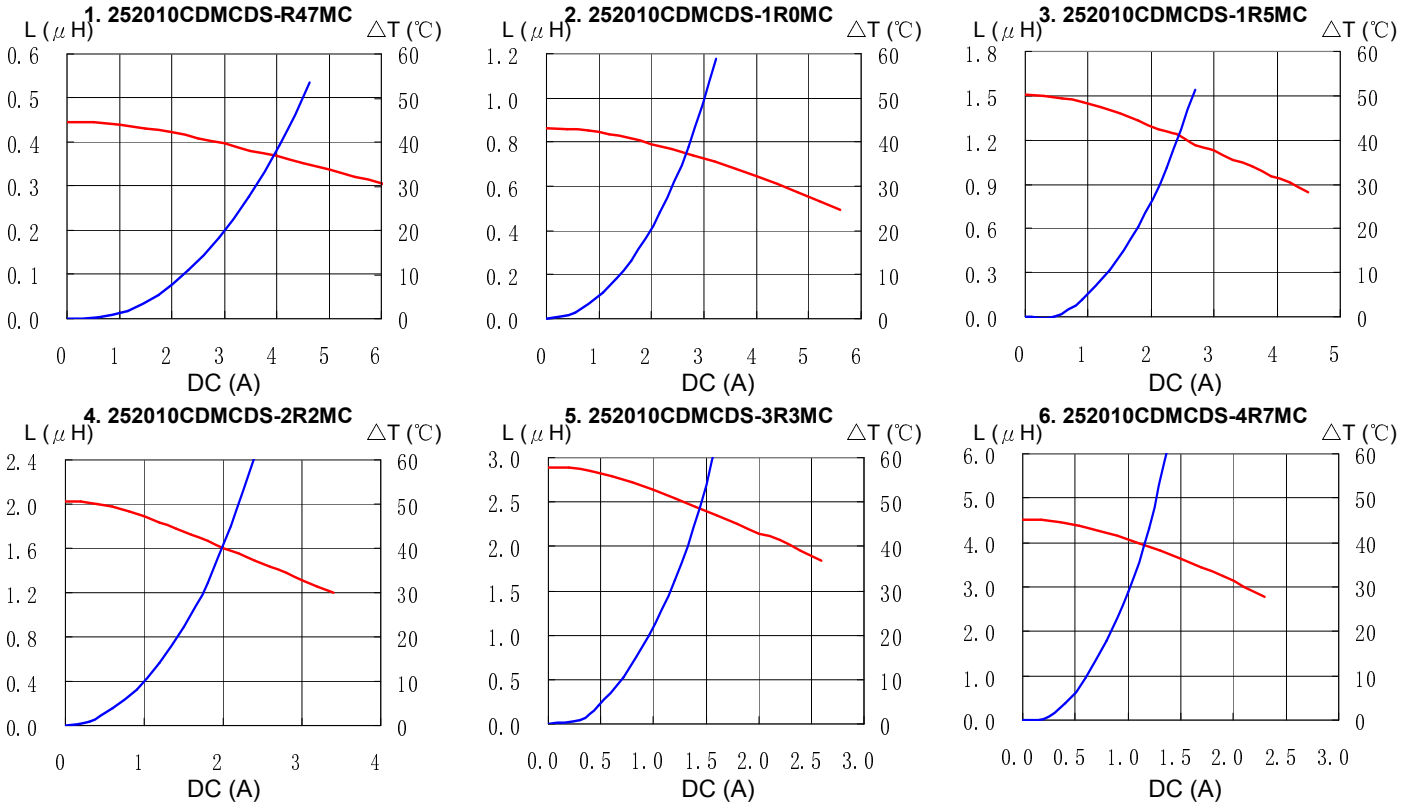
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

SMD Power Inductor 252010CDMC/DS

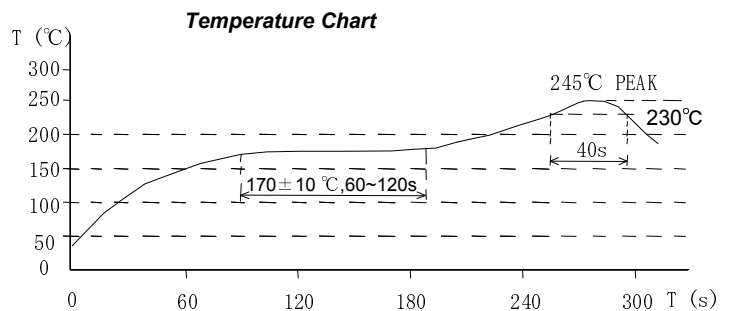
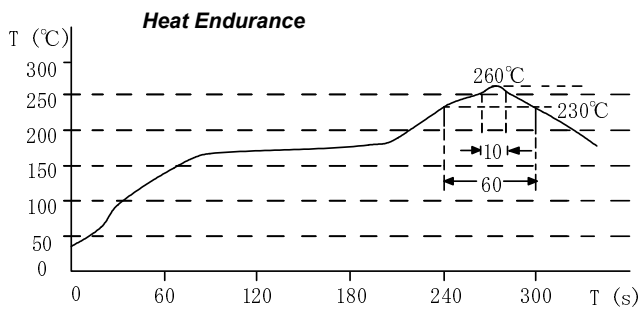


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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

Hong Kong
Tel.+852-2880-6688
FAX.+852-2565-9600
sales@hk.sumida.com
Tokyo
Tel.+81-3-5202-7112
FAX.+81-3-5202-7105
sales@jp.sumida.com
Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai
Tel.+86-021-5836-3299
FAX.+86-021-5836-3266
shanghai.sales@cn.sumida.com
Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com
Oberzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@sumida-eu.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com
Singapore
Tel.+65-6296-3388
FAX.+65-6296-3390
sales@sg.sumida.com
Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com
San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com