

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Sumida Corporation](#)
[0512CDMCDS-R33MC](#)

For any questions, you can email us directly:

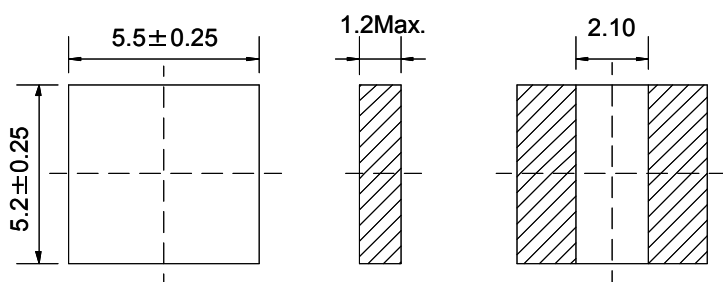
sales@integrated-circuit.com

SMD Power Inductor 0512CDMC/DS

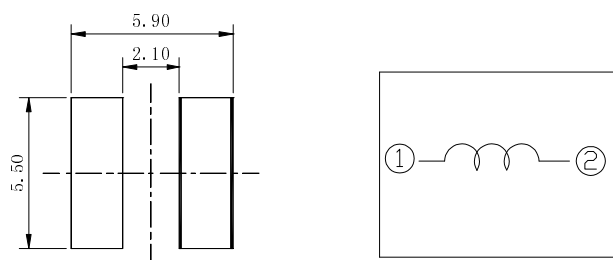


**Halogen
Free**

Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Magnetically shielded.
- L × W × H: 5.75 × 5.45 × 1.2 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, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

SMD Power Inductor 0512CDMC/DS



Electrical Characteristics

Part Number	Stamp	Inductance (μ H) [within] ※1	D.C.R (m Ω) (at 25°C)	Saturation Current (A) ※2	Temperature rise Current (A)	
					V method ※3	T-C method ※4
0512CDMCDS-R33NC	R33	0.33 $\pm$ 30 %	13 $\pm$ 20 %	10.6	5.0	6.0
0512CDMCDS-R47NC	R47	0.47 $\pm$ 30 %	16 $\pm$ 20 %	9.6	4.5	5.5
0512CDMCDS-1R0MC	1R0	1.0 $\pm$ 20 %	30 $\pm$ 20 %	6.1	3.6	4.2
0512CDMCDS-1R5MC	1R5	1.5 $\pm$ 20 %	48 $\pm$ 20 %	5.9	2.5	3.2
0512CDMCDS-2R2MC	2R2	2.2 $\pm$ 20 %	70 $\pm$ 20 %	5.7	2.0	2.4
0512CDMCDS-3R3MC	3R3	3.3 $\pm$ 20 %	95 $\pm$ 20 %	3.6	1.8	2.2
0512CDMCDS-4R7MC	4R7	4.7 $\pm$ 20 %	120 $\pm$ 20 %	3.2	1.6	2.0
0512CDMCDS-5R6MC	5R6	5.6 $\pm$ 20 %	150 $\pm$ 20 %	3.0	1.5	1.8
0512CDMCDS-6R8MC	6R8	6.8 $\pm$ 20 %	168 $\pm$ 20 %	2.8	1.4	1.6
0512CDMCDS-100MC	100	10.0 $\pm$ 20 %	290 $\pm$ 20 %	2.5	1.1	1.3
0512CDMCDS-150MC	150	15.0 $\pm$ 20 %	400 $\pm$ 20 %	2.2	0.9	1.0

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

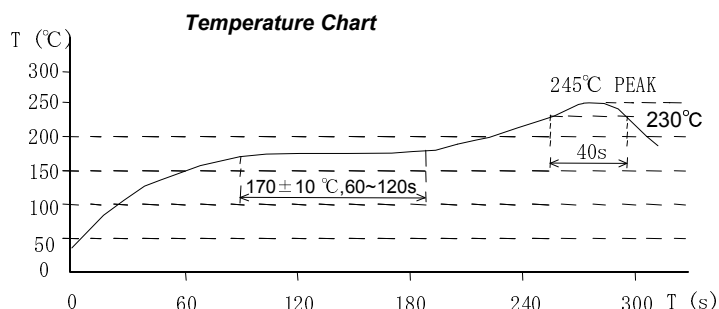
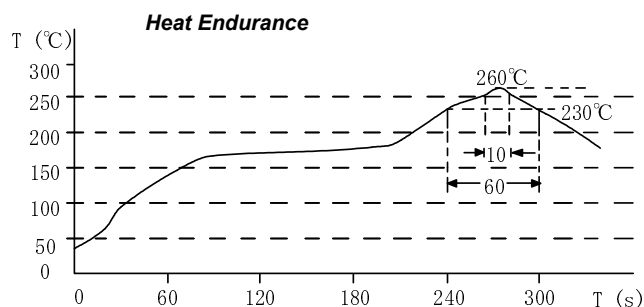
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

※4. Temperature rise current: The value of D.C. current when the top surface temperature rise of test sample is $\Delta T = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$).

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Solder Reflow Condition



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