



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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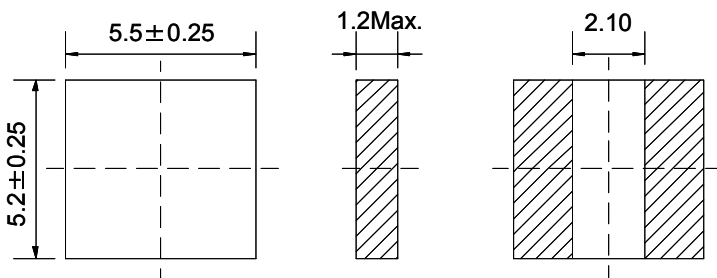


SMD Power Inductor 0512CDMC/DS

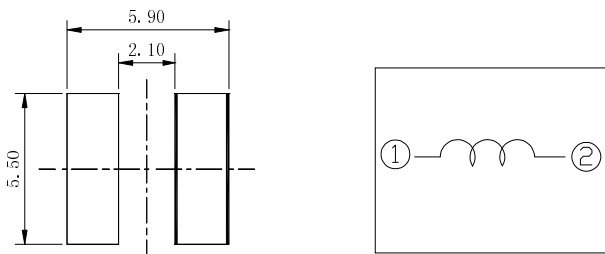


Halogen
Free

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 its nominal value.

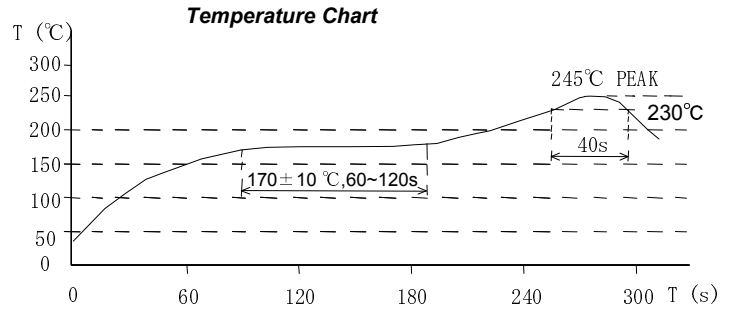
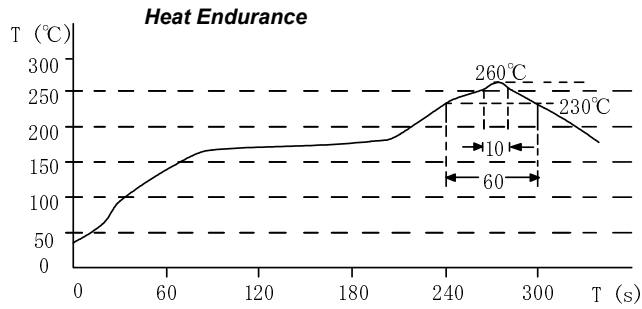
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

※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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