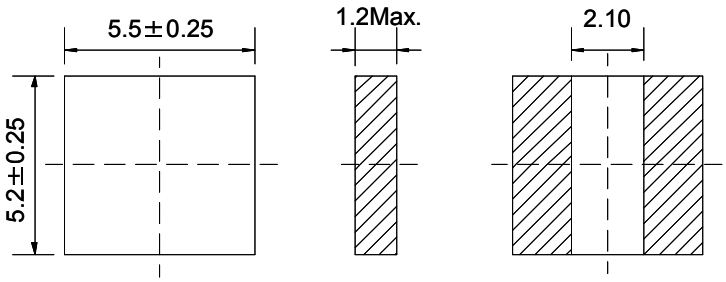
SMD Power Inductor
0512CDMC/DS

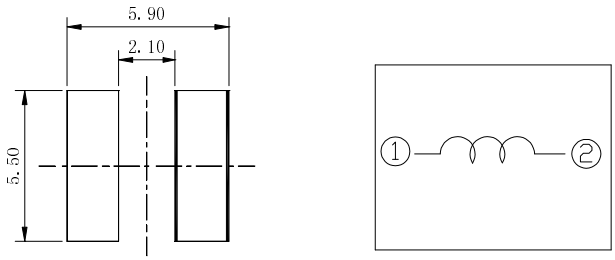
RoHS

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℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ 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.

Revised: 18-May-12

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Electrical Characteristics

Part Number	Stamp	Inductance (μH) [within] ※1	D.C.R (mΩ) (at 25℃)	Saturation Current (A) ※2	Temperature rise Current (A)	
					V method ※3	T-C methodv ※4
0512CDMCDS-R33NC	R33	0.33±30%	13±20%	10.6	5.0	6.0
0512CDMCDS-R47NC	R47	0.47±30%	16±20%	9.6	4.5	5.5
0512CDMCDS-1R0MC	1R0	1.0±20%	30±20%	6.1	3.6	4.2
0512CDMCDS-1R5MC	1R5	1.5±20%	48±20%	5.9	2.5	3.2
0512CDMCDS-2R2MC	2R2	2.2±20%	70±20%	5.7	2.0	2.4
0512CDMCDS-3R3MC	3R3	3.3±20%	95±20%	3.6	1.8	2.2
0512CDMCDS-4R7MC	4R7	4.7±20%	120±20%	3.2	1.6	2.0
0512CDMCDS-5R6MC	5R6	5.6±20%	150±20%	3.0	1.5	1.8
0512CDMCDS-6R8MC	6R8	6.8±20%	168±20%	2.8	1.4	1.6
0512CDMCDS-100MC	100	10.0±20%	290±20%	2.5	1.1	1.3
0512CDMCDS-150MC	150	15.0±20%	400±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 △T＝40℃(Ta＝20℃).
※4. Temperature rise current:The value of D.C. current when the top surface temperature rise of test sample is △T=40℃. (Ta＝20℃).

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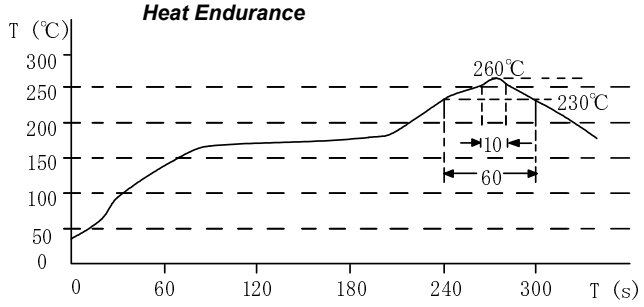
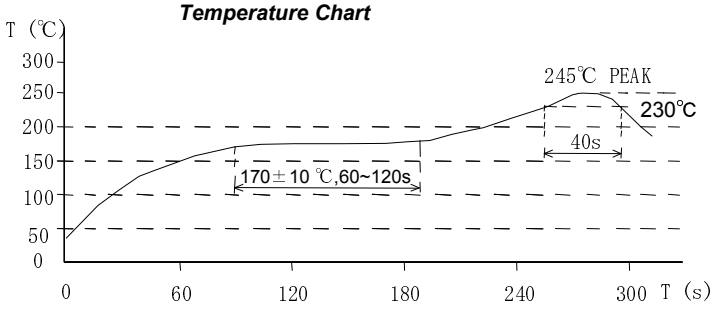
Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Shanghai
Tel.+86-021-5836-3299
FAX.+86-021-5836-3266
shanghai.sales@cn.sumida.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

Tokyo
Tel.+81-3-5202-7112
FAX.+81-3-5202-7105
sales@jp.sumida.com

Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Singapore
Tel.+65-6296-3388
FAX.+65-6296-3390
sales@sg.sumida.com

San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Obernzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@sumida-eu.com

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com