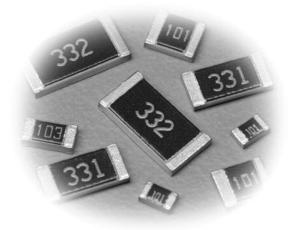


SG73

anti-surge thick film chip resistor

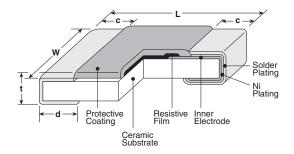




features

- Superior to RK73B/RK73H series in surge/pulse withstanding voltage
- Untrimmed, superior surge/pulse and ESD withstanding
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: 0603(1J), 0805(2A), 1206(2B), 1210(2E), 2010(2H/W2H), 2512(3A/W3A)

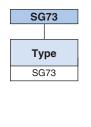
dimensions and construction



Туре	Dimensions inches (mm)						
(Inch Size Code)	L	W	С	d	t		
SG731J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
SG732A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)		
SG732B (1206)	.126±.008	.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)				
SG732E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)	.02±.012 (0.5±0.3)	.016 +.008 004 (0.4 +0.2)	.024±.004 (0.6±0.1)		
SG732H (2010)	.197±.008	.098±.008		0.1			
SG73W2H (2010)	(5.0±0.2)	(2.5±0.2)		.026±.006 (0.65±0.15)			
SG733A (2512)	.248±.008 (6.3±0.2)	.122±.008 (3.1±0.2)	.02±.012 (0.5±0.3)	.016 +.008 004 (0.4 +0.2)			
SG73W3A (2512)	(0.0.20.2)	(0.120.2)		.026±.006 (0.65±0.15)			

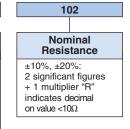
ordering information

ЗА



2B	Т
Size	Termination Material
1J	T: Sn
2A	L: SnPb:
2B	(NOT available
2E	in SG732H/W2H, SG733A/W3A)
W2H	Garoor word
W3A	
2H	

Packaging
TP: 0603, 0805: 7" 2mm pitch punch paper
TD: 0603, 0805, 1206, 1210:
7" 4mm pitch punched paper
TDD: 0603, 0805, 1206, 1210: 10" paper tape
TE: 0805, 1206, 1210, 2010 & 2512:
7" embossed plastic
TED: 0805, 1206, 1210, 2010 & 2512:
10" embossed plastic
For further information on packaging,
please refer to Appendix A





Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.



SG73

anti-surge thick film chip resistor

applications and ratings

Part Designation	Power Rating @ 70°C	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range (E-12) (K±10%, M±20%)	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
SG731J	0.1W	70°C	125°C	±400	1Ω - 8.2Ω	50V	100V	-55°C to +155°C
(0603)	0.177	700	125 0	±200	10Ω - 1ΜΩ		1001	
SG732A	0.125W	70°C	125°C	±400	1Ω - 8.2Ω	150\/	200V	
(0805)	0.125	700	125 C	±200	10Ω - 1ΜΩ	150V		
SG732B	.33W	70°C	125°C	±400	1Ω - 8.2Ω	200V	400V	
(1206)	.3344	700	125 0	±200	10Ω - 1ΜΩ			
SG732E	0.5W	70°C	125°C	±400	1Ω - 8.2Ω			
(1210)	0.500	70 C		±200	10Ω - 1ΜΩ			
SG732H/W2H	0.75W	70°C	125°C	±400	1Ω - 8.2Ω			
(2010)	0.7500	0.75W 70°C		±200	10Ω - 1ΜΩ			
SG733A/W3A	4\\/	70°C	10500	±400	1Ω - 8.2Ω			
(2512)	1W 70°C	125°C	±200	10Ω - 1ΜΩ				

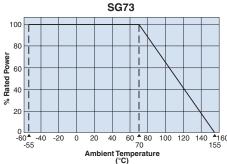
Parentheses indicate EIA package size codes.

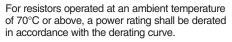
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower

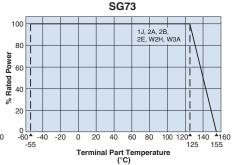
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

environmental applications

Derating Curve

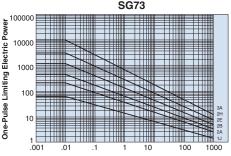






For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

One-Pulse Limiting Electric Power



The maximum applicable voltage is equal to the max. overload voltage. Please contact factory for resistance characteristics of continuous applied pulse.

Pulse Duration

Performance Characteristics

1 chomanoc characteriones						
	Requirement Δ R ±(%+0.1Ω)					
Parameter	Limit	Typical	Test Method			
Resistance	Within specified tolerance	_	25°C			
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C and +25°C/+125°C			
Overload (Short time)	±2%	±0.5%	Rated Voltage x 2.5 for 5 seconds			
Resistance to Solder Heat	±1%	±0.75%	260°C ± 5°C, 10 seconds ± 1 second			
Rapid Change of Temperature	±0.5%	±0.3%	-55°C (30 minutes), +125°C (30 minutes), 100 cycles			
Moisture Resistance	±3%	±0.75%	40°C ± 2°C, 90%~95%RH, 1000 hours; 1.5 hr ON, 0.5 hr OFF cycle			
Endurance at 70°C	±3%	±0.75%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle			
High Temperature Exposure	±1%	±0.3%	+155°C, 1000 hours			

Additional environmental applications can also be found at www.koaspeer.com

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

11/16/16

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RC1005F471CS RC1005F4751CS RCP0603W100RGED RCWP72251K47FKWB RLR05C7501GPB14 RLR07C5111FSBSL ERJ
IGMF1R00C ERJ-1GMF1R20C ERJ-1GMF2R55C ERJ-1GMF8R66C 25121WF1003T4E 25.501.3653.0 290-1.0M-RC 292-1.0M-RC 292
2.2K-RC 292-4.7K-RC 25121WF4700T4E 292-470K-RC 302-1.0M-RC CPG1206F10KC CRCW02011R00FXED CRCW060315K0FKEE

CRCW060320K5FKEE CRG0201F10K RCG0402150RFKED RCG04023K92FKED RCP2512B100RGWB RCWP110010R0FKS3

RCWP11002K00FKS3 RCWP12061K00FKS2 3520510RJT 352075KJT M55342K11B9E53RUL RMC16-102JT RMC1JPTE TR0603MR
075K1L 5-2176094-4 35202K7JT WF06Q1000FTL ERJ-S03J1R0V ERJ-S14J4R7U CHP2512L4R30GNT CPCC10270R0JE32

WR12X1621FTL