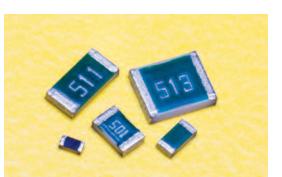




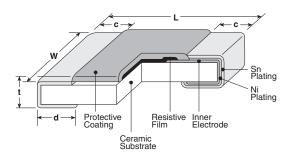
endured surge voltage flat chip resistors (anti-surge, anti-sulfuration)



features

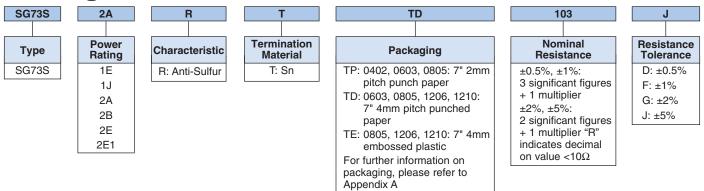
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Superior to RK73 series chip resistors in pulse withstanding voltage and high power
- SG73S (for pulse) are able to select resistance tolerance is available from $\pm 0.5\%$
- · Suitable for both reflow and flow solderings
- 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 Tested

dimensions and construction



Туре	Dimensions inches (mm)						
(Inch Size Code)	L W		с	d	t		
SG73S 1E, (0402)	.039 ^{+.004} 002 (1.0 ^{+0.1} _{-0.05})	.020±.002 (0.5±0.05)	.006±.004 (0.15±0.1)	.010 ^{+.002} 004 (0.25 ^{+0.05} _{-0.1})	.014±.002 (0.35±0.05)		
SG73S 1J, (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)		
SG73S 2A, (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.012 ^{+.008} / ₀₀₄ (0.3 ^{+0.2} / _{-0.1})	.012 +.008 004 (0.3 +0.2 -0.1)	.020±.004 (0.5±0.1)		
SG73S 2B, (1206)	.126±.008	.063±.008 (1.6±0.2)	.016 +.008	.016 +.008	.024±.004 (0.6±0.1)		
SG73S 2E, SG73S 2E1 (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)	(0.4 + 0.2 - 0.1)	(0.4 + 0.2 - 0.1)			

ordering information



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





endured surge voltage flat chip resistors (anti-surge, anti-sulfuration)

applications and ratings

Part	Power	Rated	Rated Terminal	T.C.R.	Resistance Range		Maximum	Maximum	Operating		
Designation	Rating A	Ambient Temp.	Part Temp.	(ppm/°C) Max.	D: ±0.5% E-24, E-96	F: ±1% E-24, E-96	G: ±2% E-24	J: ±5% E-24	Working Voltage	Overload Voltage	Temp. Range
00720 1E	0.125W	70°C	125°C	±200			: 10Ω - 10MΩ	200V	75V	100V	-55°C to +155°C
SG73S 1E	0.2W*2	700	105°C			2 10Ω - 1ΜΩ ⁻					
60726 11	0.2W	70°C	135°C	. 100%					150V	200V	
SG73S 1J	0.33W*2	70.0	125°C	±100*1							
	0.25W		125°C	±200	100Ω - 1ΜΩ					600V (800V)*3	
SG73S 2A	0.5W*2	70°C	100°C								
	0.33W	7000	125°C	±200						400V	
SG73S 2B	0.75W*2	70°C	105°C								
00700.05	0.5W	7000	125°C	±200					200V		
SG73S 2E	0.75W*2	70°C	110°C								
SG73S 2E1	1.0W*2	70°C	95°C	±200	1						

*1 Cold T.C.R. (-55°C ~ +25°C) is ±150x10⁺/K *2 If you want to use the rated power of *2, *3 please reference below. *3 Applies when power rating is 0.4W or lower.

Rated voltage = \(\screwtype\) Power rating x resistance value or max. working voltage, whichever is lower

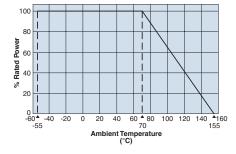
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If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating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

environmental applications

Derating Curve

66



1E/0.125W (125°C) 2A/0.25W (125°C) 2B/0.33W (125°C) 2E/0.5W (125°C) 2E1/1W (95°C) 2A/0.5W (100°C) 80 1E/0.2W, 2B/0.75W (105°C) 2E/0.75W (110°C) 1J/0.33W (125°C) 80 Powel Rated Powel 60 60 Rated J/0.2W (135°C) 40 40 20 20 11 0 ▲ -60▲ -55 0 **□** -60▲ 100 120 **^**140 **^**16 125 135 155 140 160 155 -40 -20 0 20 40 60 80 140 160 -20 40 40 0 20 60 80 100 120 120 125 105 110 125 -55 Terminal Part Temperature (°C) Terminal Part Temperature (°C)

100

For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the 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.

*2, *3 If you want to use the rated power of *2, *3, please use the derating curve based on the terminal part temperature on the right hand side.

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.



SG73S-RT

endured surge voltage flat chip resistors (anti-surge, anti-sulfuration)

environmental applications (continued)

Performance Characteristics

	Requirement $\Delta R \pm (\%+0.1\Omega)$		
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 (2A: 0.4W, 0.5W; 2B: 0.75W; 2E: 0.75W; 2E1: 1W x 2 for 5 seconds)
Resistance to Solder Heat	±1%	±0.75%	$260^{\circ}C \pm 5^{\circ}C$, 10 seconds \pm 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
Sulfuration Test	±5%	±0.2%	Soaked in industrial oil with 3.5% sulfur concentration 105°C ± 3°C, 500 hours

Please refer to conventional products for characteristic data such as temperature rise.

10/22/21

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