

SG73-RT

surge current flat chip resistors (anti-surge, anti-sulfuration)

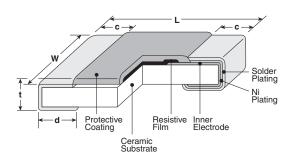




features

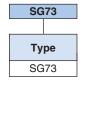
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material/pulse
- Superior to RK73 series chip resistors in pulse withstanding voltage
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified

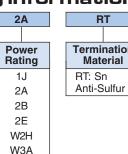
dimensions and construction



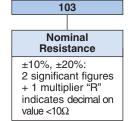
Туре	Dimensions inches (mm)						
(Inch Size Code)	L	W	С	d	t		
SG73 1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)		
SG73 2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)		
SG73 2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)		.016 +.008004 (0.4 +0.2)	.024±.004 (0.6±0.1)		
SG73 2E (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)	.02±.012				
SG73 W2H (2010)	.197±.008 (5.0±0.2)	.098±.008 (2.5±0.2)	(0.5±0.3)	.026±.006 (0.65±0.15)			
SG73 W3A (2512)	.248±.008 (6.3±0.2)	.122±.008 (3.1±0.2)					

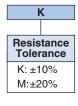
ordering information





rmination Material	Packaging
T: Sn nti-Sulfur	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







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applications and ratings

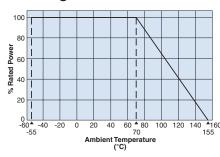
Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range K: ±10% M: ±20% E-12	Maximum Working Voltage	Maximum Overload Voltage	Operating Temp. Range
SG73 1J	0.1W	70°C	125°C	±400	1Ω - 8.2Ω	50V	100V	-55°C to +155°C
(0603)	3) 700	700		±200	10Ω - 1ΜΩ			
SG73 2A	0.105\//	7000	125°C	±400	1Ω - 8.2Ω	150V	200V	
(0805)	(0805) 0.125W	70°C		±200	10Ω - 1ΜΩ			
SG73 2B	SG73 2B (1206) 0.33W	70°C	125°C	±400	1Ω - 8.2Ω			
(1206)				±200	10Ω - 1 Μ Ω			
SG73 2E	0.50W	7000	125°C	±400	1Ω - 8.2Ω			
(1210)	(1210) 0.50W 70°C	125 0	±200	10Ω - 1ΜΩ	200V	400V		
SG73 W2H (2010) 0.75W	70°C	125°C	±400	1Ω - 8.2Ω				
			±200	10Ω - 1ΜΩ				
SG73 W3A (2512) 1W	70°C	125°C	±400	1Ω - 8.2Ω				
	70.0	700	125 0	±200	10Ω - 1ΜΩ			

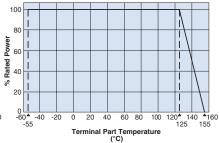
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower

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

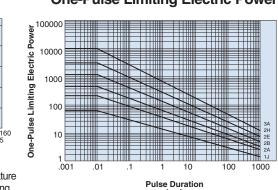




For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the derating curve.

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.

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.

Performance Characteristics

- Originalist strategistics				
	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	
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	
Sulfuration Test	±5%	±0.2%	Soaked in industrial oil with 3.5% sulfur concentration 105°C ± 3°C, 500 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.

11/06/18

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JTW 742C083750JTR MCR01MZPF1202 MCR01MZPF1601 MCR01MZPF1800 MCR01MZPF6201 MCR01MZPF9102 MCR01MZPJ113

MCR01MZPJ121 MCR01MZPJ125 MCR01MZPJ203 MCR01MZPJ751 MCR01MZPJ822 MCR03EZHJ103 MCR03EZPFX1272

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