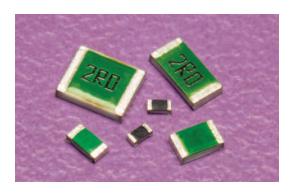


G73P-R

endured pulse power flat chip resistors (anti-surge, anti-sulfuration)

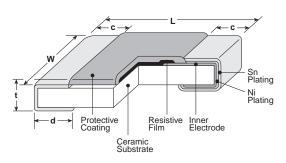


features



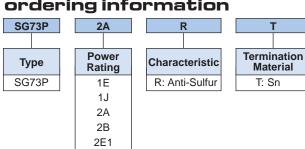
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Superior to RK73 series chip resistors in pulse withstanding voltage and high power
- SG73P (for pulse) are able to select resistance tolerance is available from ±0.5%
- Suitable for both reflow 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			
SG73P 1E (0402)	.039 +.004 002 (1.0 +0.1)	.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)			
SG73P 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)			
SG73P 2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.012 +.008004 (0.3 +0.2)	.012 +.008 004 (0.3 +0.2)	.020±.004 (0.5±0.1)			
SG73P 2B (1206)	.126±.008	.063±.008 (1.6±0.2)	.016 +.008	.016 +.008	.024±.004			
SG73P 2E SG73P 2E1 (1210)	(3.2±0.2)	.102±.008 (2.6±0.2)	(0.4 +0.2)	(0.4 +0.2)	(0.6±0.1)			

ordering information



TD					
Packaging					
TP: 0402, 0603, 0 punch paper	0805: 7" 2mm pitch				
TD: 0603, 0805, 1	206, 1210:				

7" 4mm pitch punched paper TE: 0805, 1206, 1210: 7" 4mm embossed plastic

For further information on packaging, please refer to Appendix A

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Nominal Resistance		Re To
±0.5%, ±1%:		D:
3 significant figures		F:
+ 1 multiplier +2%, +5%:		G
2 significant figures		J:
+ 1 multiplier "R"	'	
indicates decimal		

on value <10 Ω

sistance olerance : ±0.5% ±1% : ±2% ±5%



SG73P-RT

endured pulse power flat chip resistors (anti-surge, anti-sulfuration)

applications and ratings

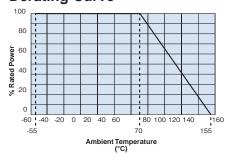
Part	Power	Rated	Rated Terminal	T.C.R.				Maximum	Maximum	Operating	
Designation	Rating	Ambient Part Temp (ppm/	(ppm/°C) Max.	D: ±0.5% E-24, E-96	F: ±1% E-24, E-96	G: ±2% E-24	J: ±5% E-24	Working Voltage	Overload Voltage	Temp. Range	
SG73P 1E	0.125W	70°C	125°C	±200		Ω 10Ω - 1ΜΩ	10Ω - 10ΜΩ	75V 150V 400V 1Ω - 10MΩ 200V	75V	100V	
SG/3P IE	0.33W	_	105°C	±200							
SG73P 1J	0.2W	70°C	135°C	±100*1	- 100Ω - 1ΜΩ				150V	200V	
3G/3F 13	0.5W	_	105°C								
SG73P 2A	0.25W	70°C	125°C	±200					400V	600V	-55°C
3073F ZA	0.75W	_	105°C							(800V)*2	to
SG73P 2B	0.33W	70°C	125°C								+155°C
00/0/ 25	1W	_	105°C								
SG73P 2E	0.5W	70°C	125°C	±200					200V	400V	
00.01 ZE	1.5W	_	105°C	±200						ı	
SG73P 2E1	1.5W	_	105°C	±200							1

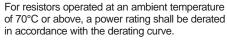
^{*1} Cold T.C.R. (-55°C ~ +25°C) is ±150x10⁻⁶/K

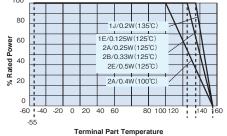
Rated voltage = $\sqrt{\text{Power rating x resistance value or max.}}$ working voltage, whichever is lower

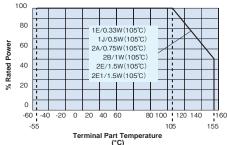
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the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

environmental applicationsDerating 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.

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

Performance Characteristics

r chomianoc onaracteristics								
	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 for 5s						
			Type 1E 1J 2A 2B 2E 2E1					
Overload (Short time)	±2%	±0.5%	Overload 1.25W 2.063W 2W 1.6W*2 3W 4W 4W					
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 or rated terminal part temperature ± 2°C 1000h; 1.5h ON/0.5h 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.

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.

^{*2} Applies when power rating is 0.4W or lower.