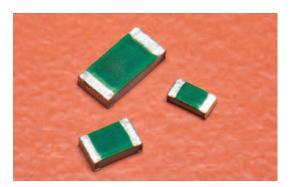


endured pulse power flat chip resistors (ultra precision grade)

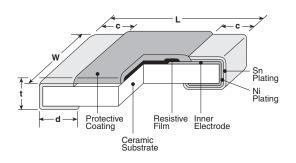


features



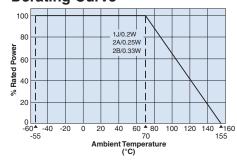
- Superior to RK73 series chip resistors in pulse withstanding voltage and high power
- High precision resistor with T.C.R. ±50x10⁻⁶/K and tolerance $\pm 0.25\%$, $\pm 0.5\%$
- Suitable for both reflow and flow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

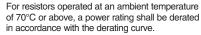
dimensions and construction

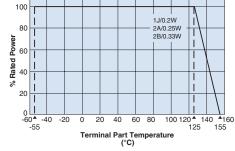


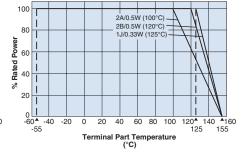
Туре	Dimensions inches (mm)					
(Inch Size Code)	L	W	С	d	t	
SG73G1J (0603)	.063±.008	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)	
SG73G1J AT (0603)	(1.6±0.2)		.014±.006 (0.35±0.15)	.02±.008 (0.5±0.2)		
SG73G2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.012 +.008004 (0.3 +0.2)	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)	
SG73G2A AT (0805)	(2.0±0.2)	(1.25±0.1)	.018±.010 (0.45±0.25)	.024±.008 (0.6±0.2)	.022±.004 (0.55±0.1)	
SG73G2B (1206)	(1206) .126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.016 +.008 004 (0.4 +0.2)	.016 +.008 004 (0.4 +0.2)	.024±.004 (0.6±0.1)	
SG73G2B AT (1206)			.022±.014 (0.55±0.35)	.031±.008 (0.8±0.2)		

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. *1 If you want to use the rated power of *1, please use the derating curve based on the terminal part temperature on the right hand side.

ordering information



^{*1} With type A, only T is available as the terminal surface material. Contact us when you have control request for environmental hazardous

Packaging

TP: 2mm pitch punch paper TD: 4mm pitch punched paper TE: 4mm pitch embossed plastic

For further information on packaging, please refer to Appendix A

1002 Nominal Resistance

D: 3 significant figures + 1 multiplier "R" indicates decimal on value <100 Ω



material other than the substance specified by EU RoHS.

Material

T: Sn

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





endured pulse power flat chip resistors (ultra precision grade)

applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (ppm/°C) Max.	Resistance Range (Ω) C±0.25%, D±0.5% E-24/E-96	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
SG73G1J	0.2W	70°C	125°C	±50	10 - 1M	150V	200V	-55°C to +155°C
(0603)	0.33W*1	_	125°C					
SG73G2A	0.25W	70°C	125°C	±50	10 - 1M	200V	400V	
(0805)	0.5W*1	_	100°C					
SG73G2B	0.33W	70°C	125°C	±50	10 - 1M	200V	400V	
(1206)	0.5W*1	_	120°C					

Parentheses indicate EIA package size codes. Rated voltage = √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. *1 If you want to use the rated power of *1, please use the derating curve based on the terminal part temperature on the previous page.

environmental applications

Temperature Rise

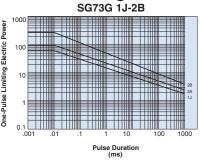




Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

Room temperature: 25°C PCB: FFR-4t = 1.6mm Cu foll thickness: 35µm ①: Hot spot

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

	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 (2A: 0.5W rated power x 2 for 5 seconds)
Resistance to Solder Heat	±1%	±0.75%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%: Characteristic (Nil) Standard ±1%: Characteristic (A) Heat Shock Resistance	±0.3%: Characteristic (Nil) Standard ±0.5%: Characteristic (A) Heat Shock Resistance	Characteristic (Nil) Standard: -55°C (30 min.)/+125°C (30 min.) 100 cycles Characteristic (A) Heat Shock Resistance: -55°C (30 min.)/+125°C (30 min.) 1000 cycles
Moisture Resistance	±2%	±0.75%	40°C ± 2°C, 90%~95%RH, 1000 hours; 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%	±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.

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JTW 742C083750JTR MCR01MZPF1202 MCR01MZPF1601 MCR01MZPF1800 MCR01MZPF6201 MCR01MZPF9102 MCR01MZPJ113

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