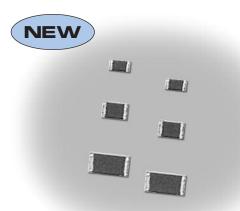




endured pulse power flat chip resistors (ultra precision grade)

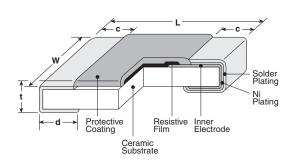


features



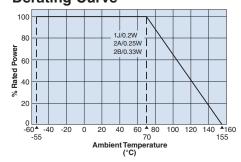
- Superior to RK73 series chip resistors in pulse withstanding voltage and high power
- High precision resistor with T.C.R. ±50x10-6/K and tolerance ±0.25%, ±0.5%
- Suitable for both reflow and flow solderings
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not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

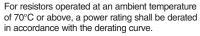
dimensions and construction

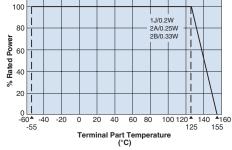


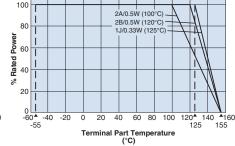
Туре	Dimensions inches (mm)				
(Inch Size Code)	L	W	С	d	t
SG73G1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.012±.004 (0.3±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)
SG73G2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.012 ^{+.008} ₀₀₄ (0.3 ^{+0.2} _{-0.1})	.012 +.008 004 (0.3 +0.2)	.02±.004 (0.5±0.1)
SG73G2B (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)

Derating Curve





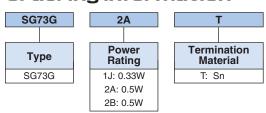




1002

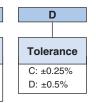
For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use. *1 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



TD						
Packaging						
ruokuging						
TP: 2mm pi	tch punch paper					
TD: 4mm pi	itch punched paper					
1						





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

10/25/17

please refer to Appendix A





endured pulse power flat chip resistors (ultra precision grade)

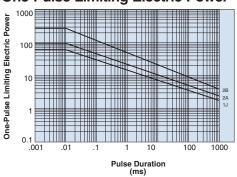
applications and ratings

Part Designation	Power Rating @ 70°C	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	100				
SG73G2A (0805)	0.25W	70°C	125°C	±50	10 - 1M	200V	400V	
	0.5W*1	_	100°C					
SG73G2B (1206)	0.33W	70°C	125°C	±50	10 - 1M	200V	400V	
	0.5W*1	_	120°C					

Parentheses indicate EIA package size codes. Rated voltage = \(\sqrt{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

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%	±0.3%	-55°C (30 minutes), +125°C (30 minutes), 100 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KOA Speer:

SG73G2ATTD16010	SG73G2ATTD1601E	SG73G2ATTD1803C	SG73G2ATTD1803D	SG73G2ATTD18R0C
SG73G2ATTD2201D	SG73G2ATTD2700D	SG73G2ATTD2701D	SG73G2ATTD30R0D	SG73G2ATTD3602C
SG73G2ATTD3602D	SG73G2ATTD4300D	SG73G2ATTD47R0D	SG73G2ATTD5602D	SG73G2ATTD5603D
SG73G2ATTD7503D	SG73G2BTTD1100D	SG73G2BTTD1203C	SG73G2BTTD1501C	SG73G2BTTD1501D
SG73G2BTTD1502C	SG73G2BTTD1502D	SG73G2BTTD2003D	SG73G2BTTD20R0C	SG73G2BTTD2402C
SG73G2BTTD2402D	SG73G2BTTD27R0D	SG73G2BTTD3000D	SG73G2ATTD39R0D	SG73G2ATTD4303C
SG73G2ATTD56R0C	SG73G2ATTD6803C	SG73G2ATTD7502D	SG73G2ATTD82R0D	SG73G2ATTD9100D
SG73G2BTTD1102C	SG73G2BTTD1301C	SG73G2BTTD1500D	SG73G2BTTD1803C	SG73G2BTTD22R0D
SG73G2BTTD2400D	SG73G2BTTD3003C	SG73G2BTTD3300D	SG73G2BTTD3301D	SG73G2BTTD3600C
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SG73G2BTTD6203C	SG73G2BTTD7502C	SG73G2BTTD8200D	SG73G2BTTD9100C	SG73G2BTTD91R0D
SG73G2ATTD4303D	SG73G2ATTD4702C	SG73G2ATTD4703C	SG73G2ATTD5101D	SG73G2ATTD6203C
SG73G2ATTD62R0C	SG73G2ATTD7503C	SG73G2ATTD91R0D	SG73G2BTTD1003C	SG73G2BTTD1102D
SG73G2BTTD1202C	SG73G2BTTD15R0D	SG73G2BTTD1603C	SG73G2BTTD1801D	SG73G2BTTD1802D
SG73G2BTTD2001C	SG73G2BTTD27R0C	SG73G2BTTD3301C	SG73G2BTTD33R0D	SG73G2BTTD36R0C
SG73G2BTTD39R0D	SG73G2BTTD43R0C	SG73G2BTTD56R0C	SG73G2BTTD6200C	SG73G2BTTD68R0C
SG73G2BTTD7501D	SG73G2BTTD8201C	SG73G2BTTD2401D	SG73G2BTTD3000C	SG73G2BTTD3303D
SG73G2BTTD33R0C	SG73G2BTTD3901D	SG73G2BTTD43R0D	SG73G2BTTD4700D	SG73G2BTTD5102D
SG73G2ATTD68R0C	SG73G2ATTD8201C	SG73G2ATTD8202C	SG73G2ATTD9101D	SG73G2BTTD1000C
SG73G2BTTD1003D	SG73G2BTTD1004D	SG73G2BTTD1101C	SG73G2ATTD51R0D	SG73G2ATTD62R0D