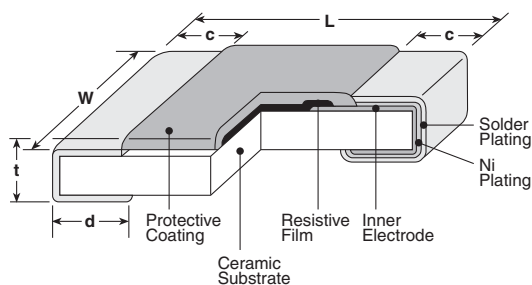


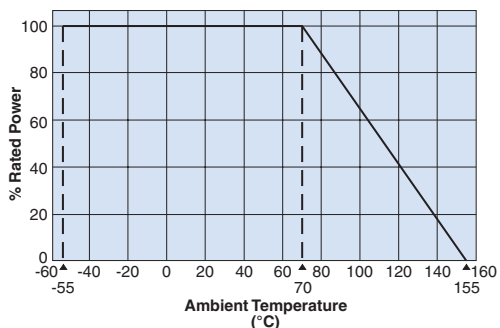
features

- RuO₂ thick film resistor element
- Meets or exceeds EIA 575, EIAJ RC 2690A, EIA PDP-100, MIL-R-55342F
- Superior to RK73B/RK73H series in surge dielectric withstanding voltage
- Marking: White three-digit on wine red protective coat, SG73P: Black three-digit, SG73S: White three-digit on green protective coating
- Products with lead-free terminations meet EU RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

dimensions and construction



Derating Curve



ordering information

New Part #	SG73	2B	T	TD	102	K
Type	SG73 SG73P SG73S	Size	Termination Material	Packaging	Nominal Resistance	Tolerance
		1J 2A 2B 2E 2H 3A W2H W3A	T: Sn (Other termination styles may be available, please contact factory for options)	TP: 0603, 0805: 7" 2mm pitch punch paper 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" punched plastic TED: 0805, 1206, 1210, 2010 & 2512: 10" punched plastic For further information on packaging, please refer to Appendix A	±0.5%, ±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω ±2%, ±5%, ±10%, ±20%: 2 significant figures + 1 multiplier "R" indicates decimal on value <10Ω	D: ±0.5% F: ±1% G: ±2% J: ±5% K: ±10% M: ±20%

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

11/06/09

applications and ratings

Part Designation	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range				Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
			(E-24) (D±0.5%)	(E-24) (F±1%)	(E-24) (G±2%,J±5%)	(E-12) (K±10%,M±20%)			
SG731J (0603)	1/16W (.1W)	±200	—	—	—	10Ω - 1MΩ	50V	100V	-55°C to +155°C
		±400				1Ω - 8.2Ω			
SG732A (0805)	1/8W (.125W)	±200	—	—	—	10Ω - 1MΩ	150V	200V	
		±400				1Ω - 8.2Ω			
SG732B (1206)	1/4W (.25W)	±200	—	—	—	10Ω - 1MΩ	200V	400V	
		±400				1Ω - 8.2Ω			
SG732E (1210)	1/3W (.33W)	±200	—	—	—	10Ω - 1MΩ			
		±400				1Ω - 8.2Ω			
SG732H/W2H (2010)	3/4W (.75W)	±200	—	—	—	10Ω - 1MΩ			
		±400				1Ω - 8.2Ω			
SG733A/W3A (2512)	1W	±200	—	—	—	10Ω - 1MΩ			
		±400				1Ω - 8.2Ω			
SG73P1J, SG73S1J (0603)	1/5W (.2W)	±100**	10Ω - 1MΩ	1Ω - 1MΩ	1Ω - 10MΩ	—	50V	100V	
SG73S2A, SG73P2A (0805)	1/4W (.25W)	±200	10Ω - 1MΩ	1Ω - 1MΩ	1Ω - 10MΩ	—	150V	200V	
SG73S2B, SG73P2B (1206)	1/3W (.33W)	±200	10Ω - 1MΩ	1Ω - 1MΩ	1Ω - 10MΩ	—	200V	400V	
SG73S2E, SG73P2E (1210)	1/2W (.5W)	±200	10Ω - 1MΩ	1Ω - 1MΩ	1Ω - 10MΩ	—			

* Parenthesis indicate EIA package size codes.

** Cold T.C.R.: +150 x 10⁻⁶/K

environmental applications

Performance Characteristics

Parameter	Requirement Δ R		Test Method
	Limit	Typical	
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 85°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

Additional environmental applications can also be found at www.koaspeer.com

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11/05/09