

NEW

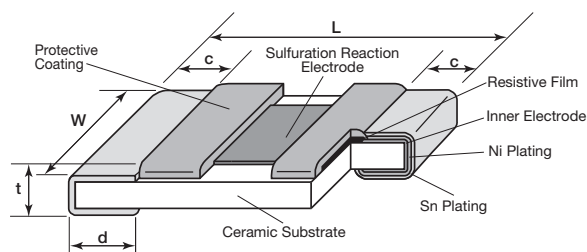


features

- Resistance value rises permanently due to reaction with sulfur gas
 - Available in two types (SK73A/SK73B) with different sulfur reactivity
 - Reflow surface mounting possible like conventional chip resistors
 - To be used as an early warning detector for sulfur, which can damage electronics
 - Meets EU-RoHS requirements
- EU-RoHS regulation is intended for Pb-glass contained in electrode, resistor element and glass.



dimensions and construction



Type (inch size code)	Dimensions inches (mm)				
	L	W	c	d	t
1J (0603)	0.06±0.008 (1.6±0.2)	0.03±0.004 (0.8±0.1)	0.01±0.004 (0.3±0.1)	0.01±0.004 (0.3±0.1)	0.02±0.004 (0.45±0.1)

ordering information

SK73A	1J	T	TD	102	M
Type	Size	Termination Material	Packaging	Nominal Resistance	Resistance Tolerance
SK73A SK73B	1J: 0.1W	T: Sn	TD: 4mm pitch punch paper	3 digits	M: ±20%

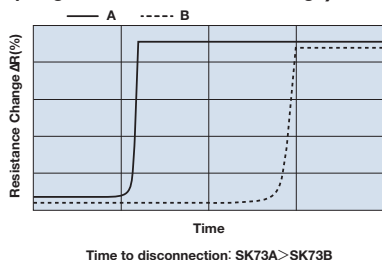
Contact us when you have a control request for environmental hazardous material other than the substance specified by EU-RoHS.
For further information on packaging, please refer to Appendix A.

applications and ratings

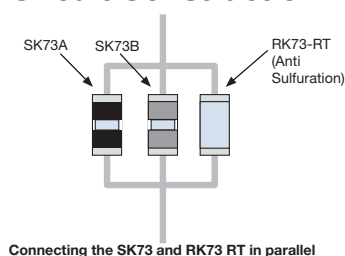
Type	Power Rating	Rated Ambient Temperature	Resistance Range (Ω)	Packaging & Q'ty/Reel (pcs)
			M: ±20% E12	TD
1J (0603)	0.1W	70°C	100~1k	5,000

Rated voltage = $\sqrt{\text{Power rating} \times \text{resistance value}}$
Operating Temperature Range: -55°C~+155°C

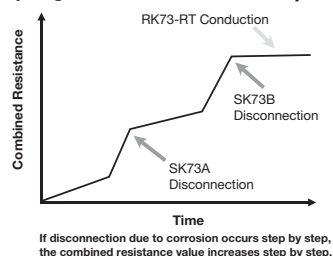
Typical Characteristics (Image of resistance value change)



Example of Circuit Construction

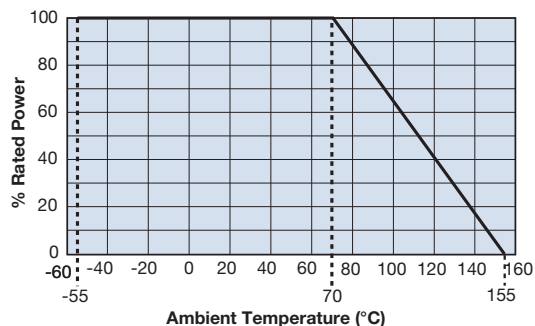


Typical Characteristics (Image of combined resistance)



environmental applications

Derating Curve



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

For more details on derating click here [“Derating Curves – Caution & Terms.”](#)

Performance Characteristics

Parameter	Performance Requirements $\Delta R \pm(\%+0.1\Omega)$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
Rapid Change of Temperature	0.5%	0.3%	-55°C (30min.)/+125°C (30min.) 100 Cycles
Moisture Resistance	2%	0.75%	40°C±2°C, 90%~95%RH, 1000 hours 1.5 hr ON/0.5 hr OFF cycles
Endurance at 70°C or Rated Terminal Part Temperature	2%	0.75%	70°C ± 2°C, or rated terminal part temperature ±2°C 1000 hours, 1.5 hr ON/0.5 hr OFF cycles
High Temperature Exposure	1%	0.5%	+155°C, 1000 hours
Sulfuration Test	Sulfur reactivity* ¹ SK73A≥SK73B	—	Soaked in industrial oil with sulfur substance 3.5% contained, 105°C, no load

*¹ Please contact us for details.