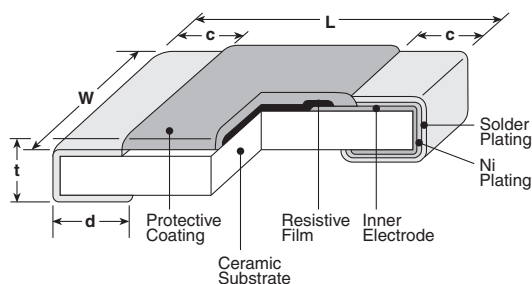


### features

- RuO<sub>2</sub> thick film resistor element
- Anti-leaching nickel barrier terminations
- For high resolution sound and clarity in signal processing and audio circuits
- Marking: Three-digit, light blue on black 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



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>1J</b> (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)
<b>2A</b> (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.016±.008 (0.4±0.2)	.012 <sup>+0.008</sup> <sub>-0.004</sub> (0.3 <sup>+0.2</sup> <sub>-0.1</sub> )	.02±.004 (0.5±0.1)
<b>2B</b> (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.02±.012 (0.5±0.3)	.016 <sup>+0.008</sup> <sub>-0.004</sub> (0.4 <sup>+0.2</sup> <sub>-0.1</sub> )	.024±.004 (0.6±0.1)

### ordering information

New Part #	RK73A	1J	T	TD	102	J
Type						
Size		1J 2A 2B				
Termination Material			T: Sn L: SnPb			
Packaging				TP: 0603, 0805: 7" 2mm pitch punch paper TD: 0603, 0805, 1206: 7" 2mm pitch punched paper TDD: 0603, 0805, 1206: 10" paper tape TE: 0805, 1206: 7" punched plastic TED: 0805, 1206: 10" punched plastic For further information on packaging, please refer to Appendix A		
Nominal Resistance					2 significant figures + 1 multiplier "R" indicates decimal on value <100Ω	
Tolerance						G: ±2% J: ±5%

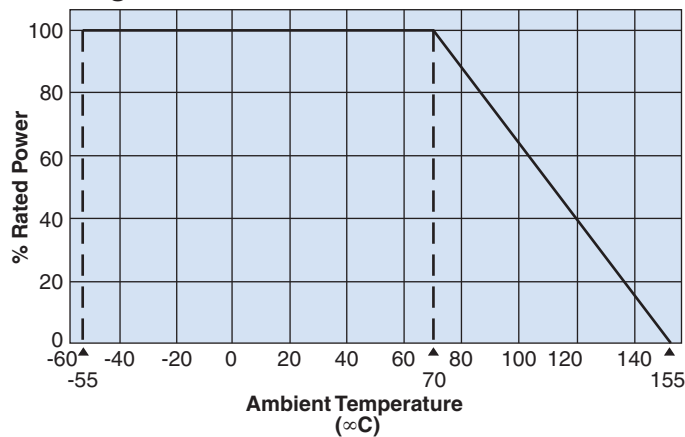
## applications and ratings

Part Designation*	Power Rating @ 70°C	T.C.R. (ppm/°C) Max.	Resistance Range E-24 (G±2%)	Resistance Range E-24 (J±5%)	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temperature Range
RK73A1J (0603)	1/10W (.10W)	±200	10Ω - 1MΩ	10Ω - 1MΩ	50V	100V	-55°C to +155°C
		±250	2.2Ω - 9.1Ω	2.2Ω - 9.1Ω			
RK73A2A (0805)	1/8W (.125W)	±200	10Ω - 1MΩ	10Ω - 1MΩ	150V	200V	
		±250	2.2Ω - 9.1Ω	2.2Ω - 9.1Ω			
RK73A2B (1206)	1/4W (.25W)	±200	10Ω - 1MΩ	10Ω - 1MΩ	200V	400V	
		±250	2.2Ω - 9.1Ω	2.2Ω - 9.1Ω			

\* Parenthesis indicate EIA package size codes.

## environmental applications

### Derating Curve



## 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%	±2%	Rated Voltage x 2.5 for 5 seconds (2B: Rated Voltage x 2 for 5 seconds)
Resistance to Solder Heat	±1%, ±3%: (R<10Ω, R>1MΩ)	±0.5%, ±1%: (R<10Ω, R>1MΩ)	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%	±1%	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%	±0.5%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1%	±0.5%	+155°C, 1000 hours