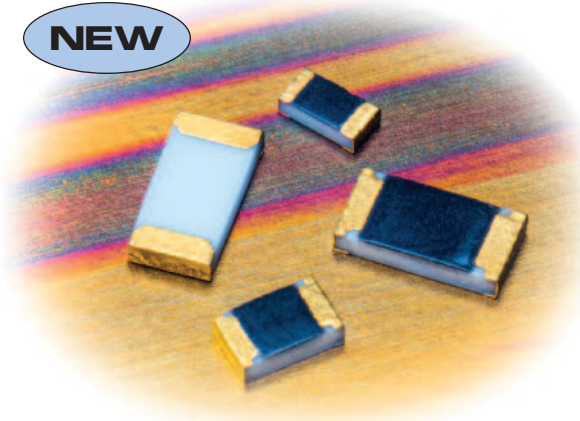


**NEW**

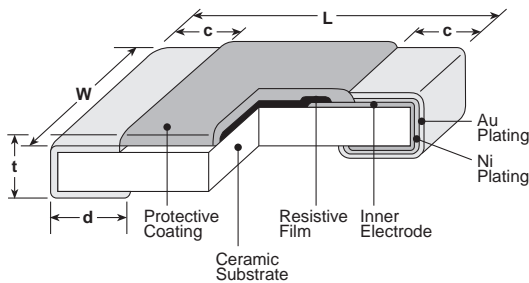


**EU RoHS**  
COMPLIANT

### features

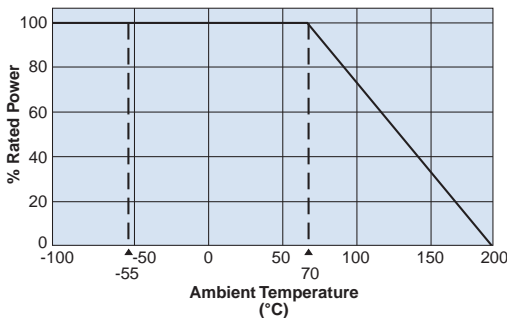
- Maximum operating temperature is 200°C. Suitable for conductive glue mounting.
- Excellent heat resistance and weather resistance are ensured by the use of metal glaze thick film
- High stability and high reliability with the triple-layer structure of electrode
- Applicable to various kinds of automatic mounters for taping, etc
- 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



Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>1J (0603)</b>	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.014±.006 (0.35±0.15)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)
<b>2A (0805)</b>	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.018±.010 (0.45±0.25)	.012 <sup>+0.008</sup> <sub>-.004</sub> (0.3 <sup>+0.2</sup> <sub>-.1</sub> )	.02±.004 (0.5±0.1)
<b>2B (1206)</b>	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.022±.014 (0.55±0.35)	.016 <sup>+0.008</sup> <sub>-.004</sub> (0.4 <sup>+0.2</sup> <sub>-.1</sub> )	.024±.004 (0.6±0.1)

### Derating Curve



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

### ordering information

<b>HRK73B</b>	<b>2B</b>	<b>G</b>	<b>TD</b>	<b>103</b>	<b>J</b>
<b>Type</b>	<b>Power Rating</b>	<b>Termination Material</b>	<b>Packaging</b>	<b>Nominal Resistance</b>	<b>Tolerance</b>
HRK73B HRK73H	1J: 0.1W 2A: 0.125W 2B: 0.25W	G: Au T: SN (Under Development)	TD: 4mm pitch punched paper For further information on packaging, please refer to Appendix A	3 digits	J: ±5%

### applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	T.C.R. (x10 <sup>-6</sup> /K) Max.	Resistance Range		Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
				HRK73H F: ±1% E24*	HRK73B J: ±5% E24			
HRK731J (0603)	0.1W	70°C	±200	10Ω~1MΩ	1Ω~1MΩ	50V	100V	-55°C to +200°C
			±400	—	1.1MΩ~10MΩ			
HRK732A (0805)	0.125W	70°C	±200	10Ω~1MΩ	1Ω~1MΩ	150V	200V	-55°C to +200°C
			±400	—	1.1MΩ~10MΩ			
HRK732B (1206)	0.25W	70°C	±200	10Ω~1MΩ	1Ω~1MΩ	200V	400V	-55°C to +200°C
			±400	—	1.1MΩ~10MΩ			

Rated voltage =  $\sqrt{\text{Power rating} \times \text{resistance value}}$  or max. working voltage, whichever is lower

\* Under development

### environmental applications

#### Performance Characteristics

Parameter	Requirement $\Delta R \pm(\%+0.1\Omega)$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
Overload (Short time)	±2%	±0.5%	Rated Voltage x 2.5 for 5 seconds (2B: Rated Voltage x 2 for 5 seconds)
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	±2%	±0.5%	+200°C, 1000 hours

For Surface Temperature Rise Graph see Environmental Applications. Additional environmental applications can also be found at [www.koaspeer.com](http://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.

10/25/18