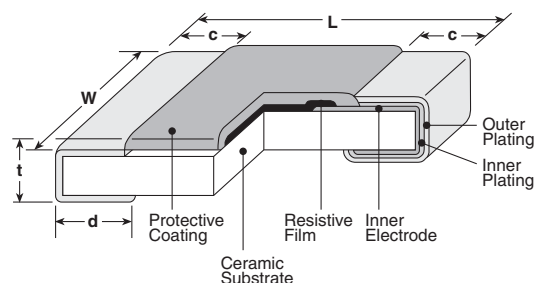


features

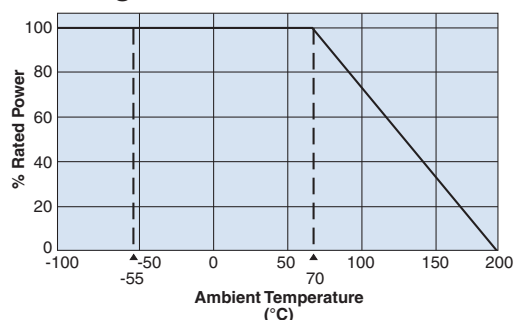
- Maximum operating temperature is 200°C. Suitable for soldering mounting (Sn plating products) or conductive glue mounting (Au plating products).
- Excellent heat resistance and weather resistance are ensured by the use of metal glaze thick film
- High stability and high reliability with the triple-layer 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



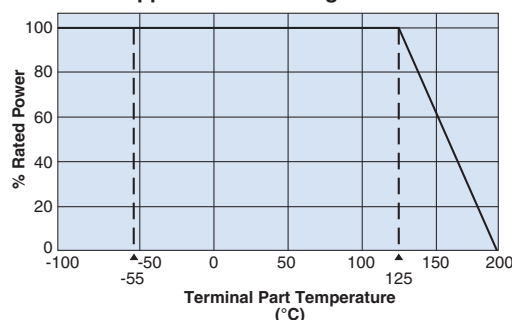
Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
NEW 1E (0402)	.039 ^{+0.003} / _{-.002} (1.0 ^{+0.1} / _{-.05})	.020±.002 (0.5±0.05)	.008±.006 (0.2±0.15)	.010 ^{+0.002} / _{-.004} (0.25 ^{+0.05} / _{-.1})	.014±.002 (0.35±0.05)
1J (0603)	.063±.008 (1.6±0.2)	.031±.004 (0.8±0.1)	.014±.006 (0.35±0.15)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)
2A (0805)	.079±.008 (2.0±0.2)	.049±.004 (1.25±0.1)	.018±.010 (0.45±0.25)	.012 ^{+0.008} / _{-.004} (0.3 ^{+0.2} / _{-.1})	.02±.004 (0.5±0.1)
2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.022±.014 (0.55±0.35)	.016 ^{+0.008} / _{-.004} (0.4 ^{+0.2} / _{-.1})	.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.

Applied to Sn Plating Products



When the terminal part temperature of the resistor exceeds the rated terminal part temperature shown above, the power shall be derated according to the derating curve.
Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use.

ordering information

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

applications and ratings

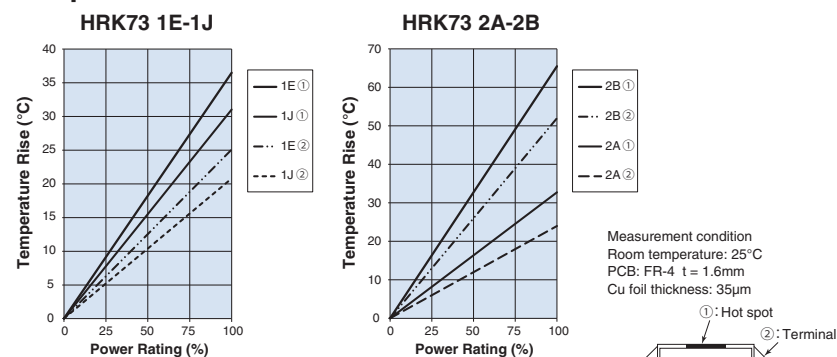
NEW	Part Designation	Power Rating	Rated Ambient Temp.	Rated Ambient Temp.	T.C.R. (x10 ⁻⁶ /K) Max.	Resistance Range		Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
						HRK73H F: ±1% E24*	HRK73B J: ±5% E24			
	HRK731E (0402)	0.1W	70°C	125°C	±200	10Ω~1MΩ	1Ω~10MΩ	75V	100V	-55°C to +200°C
	HRK731J (0603)	0.1W	70°C	125°C	±200 ±400	10Ω~1MΩ —	1Ω~1MΩ 1.1MΩ~10MΩ	50V	100V	
	HRK732A (0805)	0.125W	70°C	125°C	±200 ±400	10Ω~1MΩ —	1Ω~1MΩ 1.1MΩ~10MΩ	150V	200V	
	HRK732B (1206)	0.25W	70°C	125°C	±200 ±400	10Ω~1MΩ —	1Ω~1MΩ 1.1MΩ~10MΩ	200V	400V	

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

* Under development

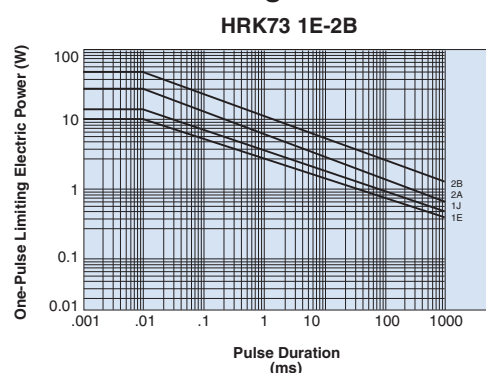
environmental applications

Temperature Rise



Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

One-Pulse Limiting Electric Power



The maximum applicable voltage is equal to the max. overload voltage. Please ask us about the resistance characteristic of continuous applied pulse.

Performance Characteristics

Parameter	Requirement Limit	ΔR (±%+0.1Ω) Typical	Test Method
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%: 1J, 2A, 2B ±3%: 1E	±0.75%: 1J, 2A, 2B ±1%: 1E	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C or Rated Terminal Part Temperature	±2%: 1J, 2A, 2B ±3%: 1E	±0.75%: 1J, 2A, 2B ±1%: 1E	70°C ± 2°C or rated terminal part temperature ±2%, 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

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

5/21/20