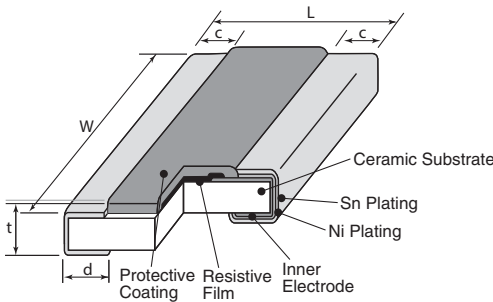




### features

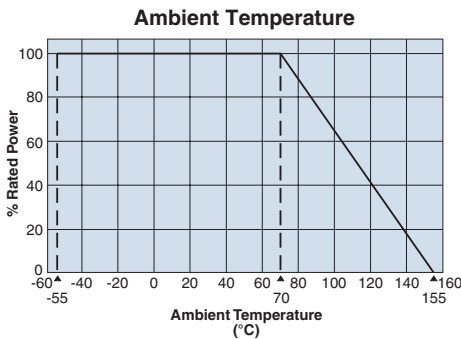
- Anti-sulfuration type, wide-side termination (reverse-geometry) type flat chip resistor
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Suitable for both flow and reflow solderings
- Products meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

### dimensions and construction

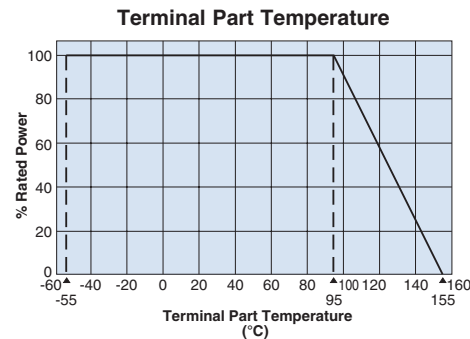


Type (Inch Size Code)	Dimensions inches (mm)				
	L	W	c	d	t
<b>2B15 (0612)</b>	$.063 \pm .008$ ( $1.6 \pm .02$ )	$.126 \pm .012$ ( $3.2 \pm .3$ )	$.012 \pm .008$ ( $0.3 \pm 0.2$ )	$.018 \pm .006$ ( $0.45 \pm 0.15$ )	$.024 \pm .004$ ( $0.6 \pm 0.1$ )
<b>2H2 (1020)</b>	$.098 \pm .008$ ( $2.5 \pm .02$ )	$.197 \pm .008$ ( $5.0 \pm .02$ )	$.016 \pm .008$ ( $0.4 \pm 0.2$ )	$.030 \pm .006$ ( $0.75 \pm 0.15$ )	$.024 \pm .004$ ( $0.6 \pm 0.1$ )
<b>3A3 (1225)</b>	$.122 \pm .004$ ( $3.1 \pm .01$ )	$.248 \pm .006$ ( $6.3 \pm 0.15$ )	$.018 \pm .008$ ( $0.45 \pm 0.2$ )	$.030 \pm .006$ ( $0.75 \pm 0.15$ )	$.024 \pm .004$ ( $0.6 \pm 0.1$ )

### Derating Curve



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



For resistors operated terminal temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

### ordering information

<b>WK73R</b>	<b>2B15</b>	<b>R</b>	<b>T</b>	<b>TD</b>	<b>10R0</b>	<b>F</b>
<b>Type</b>	<b>Size</b>	<b>Characteristic</b>	<b>Termination Material</b>	<b>Packaging</b>	<b>Nominal Resistance</b>	<b>Resistance Tolerance</b>
WK73S WK73R	2B15: 1.5W 2H2: 2W 3A3: 3W	R: Anti-Sulfur	T: Sn	TD: 0612: 7" 4mm pitch punched paper TE: 1020, 1225: 7" 4mm pitch embossed plastic For further information on packaging, please refer to Appendix A	$\pm 1\%$ : 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω $\pm 5\%$ : 2 significant figures + 1 multiplier "R" indicates decimal on values <10Ω	F: $\pm 1\%$ J: $\pm 5\%$

higher power, wide terminal type flat chip resistors (anti sulfuration)

## applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10 <sup>-6</sup> /K)	Resistance Range (Ω)		Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
					F±1% E-24 • E-96	J±5% E-24			
WK73S2B15	1.5W	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	-55°C to +155°C
				±150	0.3 ~ 0.976	0.3 ~ 0.91			
WK73R2B15	1.5W	70°C	95°C	±100	10 ~ 9.76k	10 ~ 9.1k	200V	400V	
				±150	0.2 ~ 0.976	0.2 ~ 0.91			
WK73S2H2RT	2.0W	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
				±150	0.2 ~ 0.976	0.2 ~ 0.91			
WK73R2H2RT	2.0W	70°C	95°C	±100	10 ~ 430k	10 ~ 430k	200V	400V	
				±200	432k - 1M	470k - 1M			
WK73S3A3RT	3.0W	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
				±150	10 ~ 330k	10 ~ 330k			
WK73R3A3RT	3.0W	70°C	95°C	±100	10 ~ 330k	10 ~ 330k	200V	400V	
				±200	332k - 1M	360k - 1M			

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

## environmental applications

### Performance Characteristics

Parameter	Requirement $\Delta R \pm(\%+0.005\Omega)$		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%	±0.2%	Rated voltage x 2.0 for 5 seconds
Resistance to Solder Heat	±1%	±0.2%	260°C ± 5°C, 10 seconds ± 1 second
Bending Test	±1%	±0.1%	Holding point 90mm, Bending 1 time, Bending 5mm
Rapid Change of Temperature	±2%	±1%	-55°C (30 minutes), +125°C (30 minutes), 100 cycles
Moisture Resistance	±2%	±0.2%	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±2%	±0.2%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1%	±0.2%	+155°C, 1000 hours
Sulfuration Test	±5%	±0.2%	Soaked in industrial oil with 3.5% sulfur concentration 105°C ± 3°C, 500 hours

Please refer to conventional products for characteristic data such as temperature rise.

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.

10/26/21