

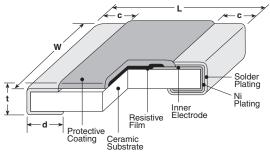


## wide terminal type flat chip resistors





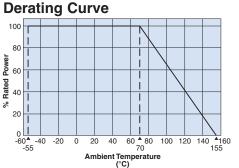
# dimensions and construction



#### features

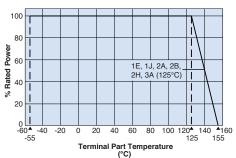
- Wide-side termination (reverse-geometry) type flat chip resistor
- · High reliability and performance with T.C.R.  $\pm 100 \times 10^{-6}$ /K. resistance tolerance  $\pm 0.5\%$
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

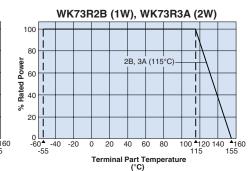
Туре	<b>Dimensions</b> inches ( <i>mm</i> )						
(Inch Size Code)	L	W	с	d	t		
1E	.020±.002	.039±.002	.006±.002	.006±.002	.014±.002		
(0204)	(0.5±0.05)	(1.0±0.05)	(0.15±0.05)	(0.15±0.05)	(0.35±0.05)		
1J	.031±.004	.063±.004	.006±.004	.008±.004	.018±.004		
(0306)	(0.8±0.1)	(1.6±0.1)	(0.15±0.1)	(0.2±0.1)	(0.45±0.1)		
2A	.049±.006	.079±.006	.012±.008	.014±.008	.022±.004		
(0508)	(1.25±0.15)	(2.0±0.15)	(0.3±0.2)	(0.35±0.2)	(0.55±0.1)		
2B	.063±.006	.126±.008	.012±.008	.018±.006			
(0612)	(1.6±0.15)	(3.2±0.2)	(0.3±0.2)	(0.45±0.15)			
2H	.098±.006	.197±.006	.016±.008	.024±.0			
(1020)	(2.5±0.15)	(5.0±0.15)	(0.4±0.2)	.030±.006			
3A	.122±.006	.252±.006	.018±.008	(0.75±0.15)			
(1225)	(3.1±0.15)	(6.3±0.15)	(0.45±0.2)				



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.

ordering information



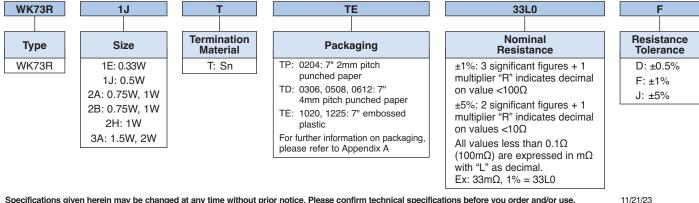


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For resistors operated terminal temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve above.

Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

If you want to use at rated power (\*1), use derating curves based on the terminal part temperature on the right side graph.



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

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# applications and ratings

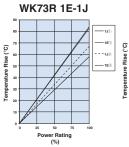
Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10⁵/K)	D±0.5% E-24/E-96	Resistance Range F±1% E-24/E-96	e (Ω) J±5% E-24	Maximum Working Voltage	Maximum Overload Voltage	Operating Temp. Range
WK73R1E	0.33W <sup>1</sup>	70°C	125°C	±100	_	10 -1M	10 - 1M	75V	100V	
WK73R1J	0.5W <sup>1</sup>	70°C	125°C	±100	_	10 - 1M	10 - 1M	150V	200V	
	0.75W <sup>1</sup>	70°C	125°C	±100		20.5k - 1M	22k - 1M	200V	400V	-55°C to +155°C
WK73R2A	1.0W <sup>1</sup>	70°C	125°C	±100		10 - 20k	10 - 20k			
WK73R2B	0.75W	70°C	125°C	±100	10 - 1M	10 - 1M	10 - 1M	200V	400V	
WK/JKZD	1.0W <sup>1</sup>	70°C	115°C	±100	10 - 9.76k	10 - 9.76k	10 - 9.1k			
WK73R2H 1.0	1.014/ 70	70%0	125°C	±100	—	10 - 430k	10 - 430k	200V	400V	
	1.000	.0W 70°C		±200	—	432k - 1M	470k - 1M			
1.5W	1 5\//	1.5W 70°C	125°C	±100	_	10 - 330k	10 - 330k	200V	400V	
	1.500 70 C	700		±200	_	332k - 1M	360k - 1M			
WK73H3A	2.0W <sup>1</sup>	70°C	115°C	±100	_	10 - 330k	10 - 330k			
				±200	_	332k - 1M	360k - 1M			

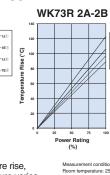
Rated voltage =  $\sqrt{Power rating x resistance value}$  or max. working voltage, whichever is lower

<sup>1</sup> If you want to use at rated power use derating curves based on the terminal part temperature on the right side graph located on previous page. If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature", please give priority to the "Rated Terminal Part Temperature." For more details refer to the "Introduction of the derating curves based on the terminal part temperature" in the beginning of the catalog

# environmental applications

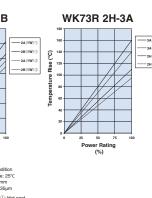
#### **Temperature Rise**



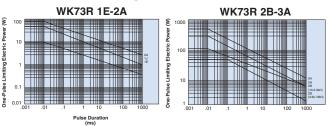


Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

#### **Performance Characteristics**



**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. The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

	Requirement Δ R ±(%+0.005Ω)		
Parameter	Limit	Typical	Test Method
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%	WK73R1E (0.33W), WK73R1J (0.5W), WK73R2A (0.75W, 1W), WK73R3A (2W): Rated voltage x2.0 for 5 seconds. WK73R2B, R2H, R3A: Rated voltage x2.5 for 3 seconds
Resistance to Solder Heat	±1%	±0.2%	$260^{\circ}C \pm 5^{\circ}C$ , 10 seconds $\pm 1$ 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), 1000 cycles
Moisture Resistance	±3%: 1E ±2%: All others	±1%: 1E ±0.2%: All others	40°C ± 2°C, 90%-95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±3%: 1E ±2%: All others	±1%: 1E ±0.2%: All others	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

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.

10/20/23

单击下面可查看定价,库存,交付和生命周期等信息

>>KOA Speer(日本兴亚)