



wide terminal type flat chip resistors (anti sulfuration)

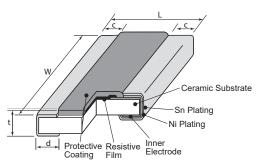


features



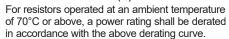
- Anti-sulfuration type, wide-side termination (reverse-geometry)type flat chip resistor
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Suitable for both flow and reflow solderings
- Products meet EU RoHS requirements. EU RoHS regulation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

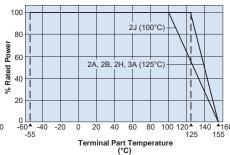
dimensions and construction

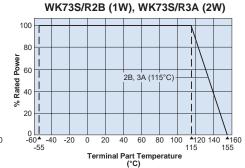


Туре	Dimensions inches (mm)					
(Inch Size Code)	L	W	С	d	t	
2A (0508)	.049±.006 (1.25±0.15)	.079±.006 (2.0±0.15)	.012±.008 (0.3±0.2)	.014±.008 (0.35±0.2)	.022±.004 (0.55±0.1)	
2B (0612)	.063±008 (1.6± -0.2)	.126±012 (3.2±-0.3)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	.024±.004	
2H (1020)	.098±008 (2.5±-0.2)	.197±008 (5.0±-0.2)	.016±.008 (0.4±0.2)	.030±.006 (0.75±0.15)	(0.6±0.1)	
2J (1218)	+.004 .122±008 (3.1± -0.2)	+.004 .181±008 (4.6±-0.2)	.016±.008 (0.4±0.2)	.030±.006 (0.75±0.15)	.024±.004	
3A (1225)	+.008 .122±004 (3.1±-0.1)	.248±.006 (6.3±0.15)	.018±.008 (0.45±0.2)	.030±.006 (0.75±0.15)	(0.6±0.1)	

Derating Curve 100 80 % Rated Powe 60 20 **≜**160 155 -20 70 80 100 120 140 20 40 60





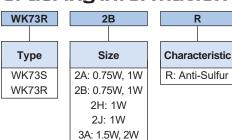


For resistors operated terminal temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve.

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

When using Power Rating¹, please use the derating curves based on the terminal part temperature on the right side.

ordering information



Term T:

T	TD			
nination aterial	Packaging			
Sn	TD: 4mm pitch punched paper			
	TE: 4mm pitch embossed plastic			
	For further information on packaging, please refer to Appendix A			

10R0 Nominal Resistance Resistance* **Tolerance** ±1%: 4 digits F: ±1% ±5%: 3 digits J: ±5% Resistance value, 3 digits:

1~9.1Ω, 1R0~9R1 Resistance value, 4 digits: 1~9.76Ω, 1R00~9R76

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

1/7/25





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applications and ratings

Part Designation	Power Rating	Rated Ambient Temperature	Rated Terminal Part Temperature	T.C.R. (X 10°/K)	Resistance F±1% E-24 • E-96	Range (Ω) J±5% E-24	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
WK73S2A	1.0W ¹	70°C	125°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	-55°C to +155°C
MUCTOROA	0.75W	70°C	125°C	±100	20.5k ~ 1M	22k ~ 1M			
WK73R2A	1.0W ¹	70°C	125°C	±100	10 ~ 20k	10 ~ 20k			
	0.75W	70°C	115°C	±100	1 ~ 9.76	1 ~ 9.1			
WK73S2B	1.0W1	70°C	44500	±100	1 ~ 9.76	1 ~ 9.1			
	1.000	70 C	115°C	±150	0.3 ~ 0.976	0.3 ~ 0.91			
	0.7514/ 7000	7000	125°C	±100	10 ~ 9.76k	10 ~ 9.1k			
WK73R2B 0.75V	0.75W	.75W 70°C		±200	10k ~ 1M	10k ~ 1M			
	1.0W ¹	70°C	115°C	±100	10 ~ 9.76k	10 ~ 9.1k			
WK73S2H 1.0	4 0144000		40=00	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
	1.000	1.0W 70°C	125°C	±150	0.2 ~ 0.976	0.2 ~ 0.91			
WK73R2H	1.0W	V 70°C	125°C	±100	10 ~ 430k	10 ~ 430k			
WK/3RZH	1.000	70 C	125 C	±200	432k - 1M	470k - 1M			
WK73S2J	1.0W	70°C	100°C	±100	1 ~ 9.76	1~9.1			
W//ZODO I	1.0W 70°C	7000	100°C	±100	10 ~ 510k	10 ~ 510k	200V	400V	
WK73R2J		70°C		±200	511k ~ 1M	560k ~ 1M			
W//72024	1.5W	70°C	125°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
WK73S3A	2.0W1	70°C	115°C	±100	1 ~ 9.76	1 ~ 9.1			
M///7000 A	1.5W	70°C	125°C	±100	10 ~ 330k	10 ~ 330k			
				±200	332k - 1M	360k - 1M			
WK73R3A	2.0W ¹ 70°C	70°C	115°C	±100	10 ~ 330k	10 ~ 330k			
		2.0VV 70 C		±200	332k - 1M	360k - 1M			

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

If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature", please give priority to the "Rated Terminal Part Temperature." Prior to use and 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

Performance Characteristics

	Requirement Δ R ±(%+0.005 Ω)			
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%	WK732B, S2H, R2H, S2J, R2J: Rated voltage x 2.5 for 5 seconds WK73S/R2A (0.75W, 1W), WK73S/R2B (1W), WK73S/R3A (2W): 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

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¹ When using Power Rating, please use the derating curves based on the terminal part temperature on the right side of the graph located on the previous page.