

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

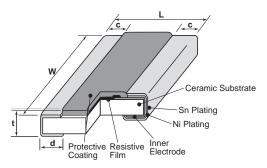


features



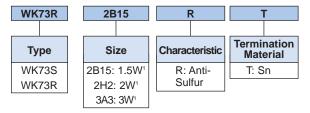
- Anti-sulfuration type, wide-side termination (reverse-geometry) type flat chip resistor
- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- Suitable for both flow and reflow solderings
- Products meet EU RoHS requirements.
 EU RoHS regulation 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			
2B15 (0612)	.063±008 (1.6±-0.2)	+.004 012 (3.2±-0.3)	.012±.008 (0.3±0.2)	.018±.006 (0.45±0.15)	.024±.004 (0.6±0.1)			
2H2 (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)	.024±.004 (0.6±0.1)			
3A3 (1225)	.122±004 (3.1±-0.1)	.248±.006 (6.3±0.15)	.018±.008 (0.45±0.2)	.030±.006 (0.75±0.15)	.024±.004 (0.6±0.1)			

ordering information



Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS.

טו						
Packaging						
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

	ninal stance
+ 1 multiplie	ficant figures r "R" indicates /alue <100Ω

+ 1 multiplier R indicates decimal on value <100Ω ±5%: 2 significant figures + 1 multiplier "R" indicates decimal on values <10Ω

F
Resistance Tolerance
F: ±1%
J: ±5%



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applications and ratings

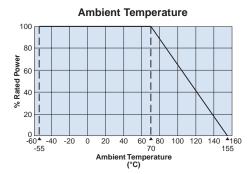
Part	Part Power		Rated	TCR		Resistance Range (Ω)		Maximum	Operating
Designation	Rating	Ambient Temp.	Terminal Part Temp.	(X 10 ⁻⁶ /K)	F±1% E-24 • E-96	J±5% E-24	Working Voltage	Overload Voltage	Temperature Range
WK73S2B15RT	1.5W¹	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	-55°C to +155°C
(0612)	(0612)	70°C	95.0	±150	0.3 ~ 0.976	0.3 ~ 0.91			
WK73R2B15RT (0612)	1.5W¹	70°C	95°C	±100	10 ~ 9.76k	10 ~ 9.1k			
WK73S2H2RT	2.0W1	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
(1020)	2.000	70.0	95.0	±150	0.2 ~ 0.976	0.2 ~ 0.91			
WK73R2H2RT	2.0W1	70°C	95°C	±100	10 ~ 430k	10 ~ 430k	2007		
(1020)	2.000	700	95 C	±200	432k - 1M	470k - 1M			
WK73S3A3RT (1225)	3.0W¹	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	
WK73R3A3RT (1225)	3.0W1 70°	70°C	95°C	±100	10 ~ 330k	10 ~ 330k			
	3.000	700	95 C	±200	332k - 1M	360k - 1M			

If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature" in your usage conditions, please give priority to the "Rated Terminal Part Temperature".

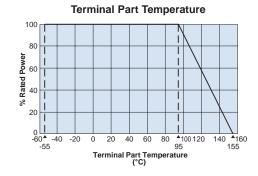
Rated voltage = $\sqrt{\text{Power rating x resistance value or max.}}$ working voltage, whichever is lower

For more details, please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog.

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.

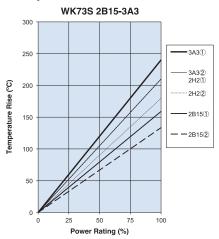
If you want to use at rated power', use derating curves based on the terminal part temperature above.

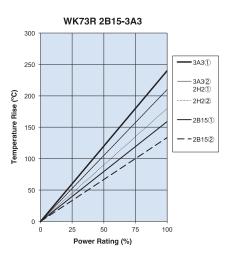
^{*1} If you use at the rated power, please keep the condition that the terminal of the resistor is below the rated terminal part temperature. Please refer to the derating curves based on the terminal temperature of right side on the next page.



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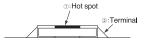
Temperature Rise



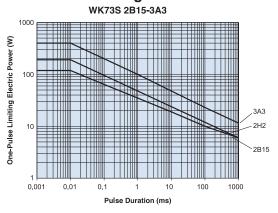


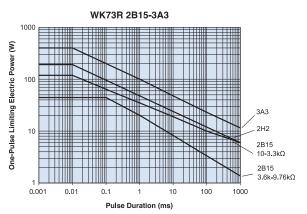
Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.

Measurement condition Room temperature: 25°C PCB: FR-4t = 1.6mm Cu foil thickness: 35µm



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.

environmental applications

Performance Characteristics

	Requirement A	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%	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), 1000 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

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