



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

Terminal Part Temperature

Terminal Part Ten (°C)

temperature" in the beginning of our catalog before use.

▲100 120 95

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

nperature

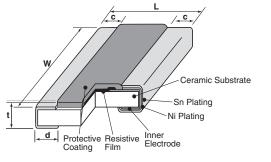
For resistors operated terminal temperature of described for each size or

160 **1**55

140

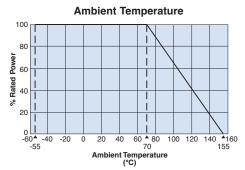
- · Products meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Tested

dimensions and construction



Туре **Dimensions** inches (*mm*) (Inch Size Code) W d L. t С +.004 .126± -.012 + 004 .063± -.004 .012±.008 .018±.006 2B15 .024±.004 (0612) $(3.2\pm^{+0.1}_{-0.3})$ (0.3 ± 0.2) (0.45±0.15) (0.6 ± 0.1) $(1.6\pm^{+0.1}_{-0.2})$ +.004 .008± -.008 .197± ^{+.004} .030±.006 2H2 .016±.008 .024±.004 (1020) $(2.5\pm^{+0.1}_{-0.2})$ $(5.0\pm^{+0.1}_{-0.2})$ (0.4±0.2) (0.75±0.15) (0.6±0.1) +.008 122±-.004 .248±.006 .018±.008 .030±.006 .024±.004 3A3 (1225)(3.1±-0.1) (6.3±0.15) (0.45±0.2) (0.75±0.15) (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 above derating curve.

ordering information

material other than the substance specified by EU RoHS.

	WK73R		2B15	R	Т		TD			10R0	
	Туре		Size	Characteristic		Termination Material		ackaging		Nominal Resistance	
	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			±1%: 3 significant figures + 1 multiplier "R" indicates decimal on value <100Ω ±5%: 2 significant figures + 1 multiplier "R" indicates	
	Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS.						For further information please refer to App		decimal on values <		

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

11/27/23

resistors

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100

80

% Rated Power 09 09

20

0⊾ -60▲ -55

-40 -20 0 20 40 60 80

F

Resistance Tolerance F: +1%

J: ±5%





11/15/23

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applications and ratings

Part Designation	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R. (X 10⁵/K)	Resistance F±1% E-24 ⋅ E-96	e Range (Ω) J±5% E-24	Maximum Working Voltage	Maximum Overload Voltage	Operating Temperature Range
WK73S2B15RT	1.5W ¹	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V	400V	-55°C to +155°C
WK/352D15h1				±150	0.3 ~ 0.976	0.3 ~ 0.91			
WK73R2B15RT	1.5W ¹	70°C	95°C	±100	10 ~ 9.76k	10 ~ 9.1k			
WIZZOCOLIODT	2.0W ¹	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1	200V 200V	400V	
WK73S2H2RT				±150	0.2 ~ 0.976	0.2 ~ 0.91			
WK73R2H2RT	2.0W ¹	70°C	95°C	±100	10 ~ 430k	10 ~ 430k			
WK/3KZHZKI		700		±200	432k - 1M	470k - 1M			
WK73S3A3RT	3.0W ¹	70°C	95°C	±100	1 ~ 9.76	1 ~ 9.1		400V	
	0.0\\/1	70°C	95°C	±100	10 ~ 330k	10 ~ 330k			
WK73R3A3RT	3.0W ¹			±200	332k - 1M	360k - 1M			

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

^{*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.

For more details, please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog. Operating Temperature Range: $-55^{\circ}C \sim +155^{\circ}C$

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%	$260^{\circ}C \pm 5^{\circ}C$, 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

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resistors