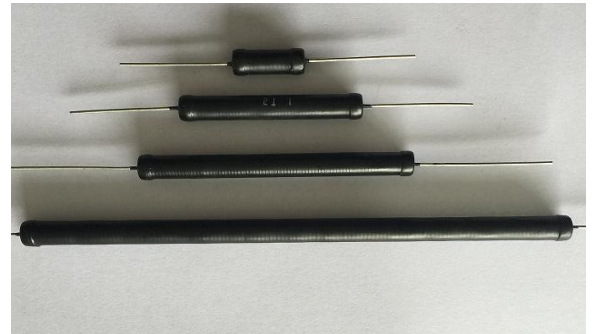




# RIZ High Voltage Resistor

## General

RIZ High Voltage Resistor is new product of EECTECH company, it is thick film, non-inductive, and high voltage resistor. The basic core is made of high quality ceramic, good heat conduction, big heat capacity.



## Feature

- ✦ Thick Film and Non-inductive
- ✦ Wide resistance range
- ✦ High power capacity, Good wet and heat resistance, good resistance to electrical impulses.
- ✦ Stable and reliable performance

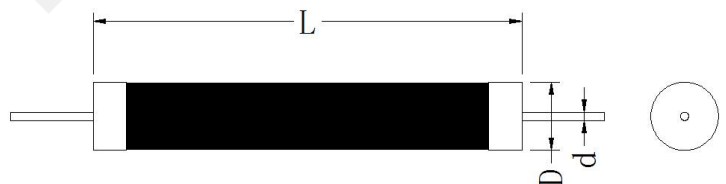
## Applicable Standards

GB/T5729-2003 Fixed Resistors used in Electronic equipment, The first part: general specification.

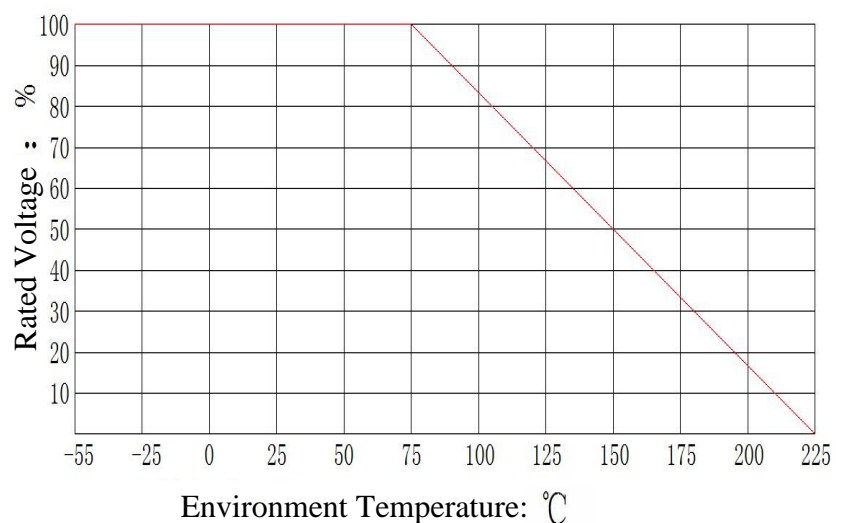
## Main Technical Parameters

Ceramic Core	96% $\text{Al}_2\text{O}_3$
Material of Film	Pulp of ruthenium
Coating Material	Silicon Resin
Resistance Range	$1\ \Omega \sim 10\text{T}$
Tolerance	$\pm 0.5\% \sim \pm 10\%$
TCR	$\geq \pm 15\text{ppm}$ ( $25^\circ\text{C} \sim 105^\circ\text{C}$ )
Insulation Voltage	1000VDC
Insulation Resistance	$\geq 10\text{G}\Omega$
Operation Temp. range	$-55^\circ\text{C} \sim +225^\circ\text{C}$

## Dimension(refer to Table 1)



## Power Consumption Curve





## Performance

Item	Inspect Method	Performance requirement
Short time overload	500% rated power, but not over 150% max. continuous working voltage, for 5 seconds.	$\Delta R \leq \pm 0.2\% R$
Service Life	At rated power for 1000 hours	$\Delta R \leq \pm 0.5\% R$
Wet Resistance	40°C, RH $\geq$ 95%, 56 days	$\Delta R \leq \pm 0.25\% R$
Thermal Shock	-55°C ~ 155°C, 5 cycles	$\Delta R \leq \pm 0.4\% R$

## Product specification (Table 1)

Model	Rated Power	L $\pm$ 0.5mm	D $\pm$ 0.5mm	d $\pm$ 0.1mm	Max. Working Voltage kV
RIZ20	2.5	20	8	0.8	4.8
RIZ26	3.7	27	8	0.8	6.4
RIZ32	4.5	33	8	0.8	8.0
RIZ39	5.2	39	8	0.8	13
RIZ52	7.5	52	8	0.8	16
RIZ78	11	78	8	0.8	24
RIZ103	12	103	8	0.8	32
RIZ124	15	124	8	0.8	40
RIZ154	20	154	8	0.8	48

## How to order

Model	Rated Power	Nominal Resistance	Tolerance	TCR
<b>RIZ20</b>	<b>2.5W</b>	<b>30K</b>	<b>J</b>	<b><math>\pm 100\text{PPM}</math></b>

Note: B= $\pm 0.1\%$ , C= $\pm 0.25\%$ , D= $\pm 0.5\%$ , F= $\pm 1\%$ , G= $\pm 2\%$ , J= $\pm 5\%$ , K= $\pm 10\%$ , M= $\pm 15\%$ ; p= $\pm 20\%$