

# Resistor

## ER4 - Metal Oxide Film Fixed Resistor

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Elecsound is a manufacturer of resistors. we offer carbon film resistors, metal film resistors, cement type resistors, Metal Oxide film resistors and SMD resistors.

Good performance in Moisture resistance, Anti-Oxidization, Thermal stability, Non flammability, Overload stability, stable and reliable long term operation.

Operating ambient temperature : -55°C to +155°C

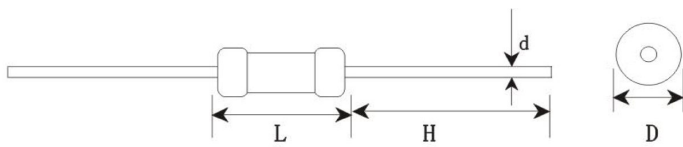
The resistor's surface coats gray color

Rohs Compliant

### Electrical Characteristics

Item	Performance Requirement	Test Methods
Temperature Coefficient	$-350\text{PPM}/^{\circ}\text{C} \leq \alpha \leq +350\text{PPM}/^{\circ}\text{C}$	JIS5202-5.2
Short time Overload	$\Delta R \leq \pm(1\%R_0 + 0.05R)$	JIS5202-5.5
Pulse Overload	$\Delta R \leq \pm(2\%R_0 + 0.05R)$	JIS5202-5.8
Resistance to Soldering Heat	$\Delta R \leq \pm(1\%R_0 + 0.05R)$	JIS5202-6.4
Solderability	The area of soldering is over 95%	JIS5202-6.5
Temperature Cycling	$\Delta R \leq \pm(1\%R_0 + 0.05R)$	JIS5202-7.4
Load Life in Humidity	$\Delta R \leq \pm(5\%R_0 + 0.1R)$	JIS5202-7.9
Load Life	$\Delta R \leq \pm(5\%R_0 + 0.1R)$	JIS5202-7.10
Non Flammability	No Visible Flame	SJ3272-4.2

### Diameter And Size(Unit: mm)



Part No.	Dimensions (mm)				Resistance Range (OHM)		Tolerance
	L±1.0	D±0.5	H±2	d±0.05	Min. Value	Max. Value	
ER4-1/2W(1Ws)	10.5	3.3	26.0	0.58	1R	33K	±5%
ER4-1W(2Ws)	12.0	4.5	26.0	0.78	1R	39K	±5%
ER4-2W(3Ws)	15.0	5.0	26.0	0.78	1R	39K	±5%
ER4-3W(5Ws)	17.0	6.0	28.0	0.78	1R	39K	±5%
ER4-5W	25.0	8.0	30.0	0.78	1R	39K	±5%

Note: "s" means small size type,

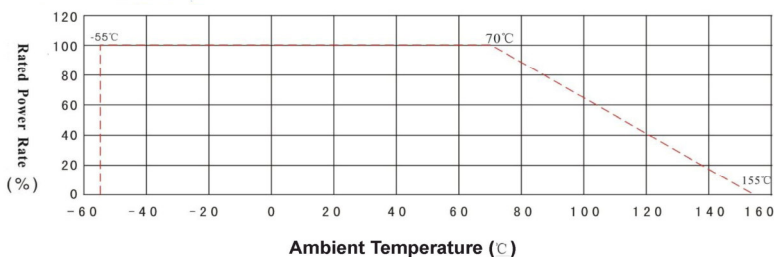
Special Resistance and Tolerance available

### Performance Parameters

Parameters Power Rated	Max. Working Voltage	Max. Overload Voltage	Max. Pulse Overload Voltage	Withstand Voltage
1/2Ws	200V	400V	500V	250V
1/2W	250V	400V	500V	250V
1Ws	350V	600V	750V	350V
1W	350V	600V	750V	350V
2Ws	350V	600V	750V	350V
2W	350V	600V	750V	350V
3Ws	350V	600V	750V	350V
5Ws	500V	800V	1000V	500V

### Power Rated Derating Curve

Rated Power Derating Curve



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