

# Resistor

## ER2 - Metal Film Fixed Resistor

EIECSOUND®

Low temperature coefficient, high precision, low noise, good high frequency performance

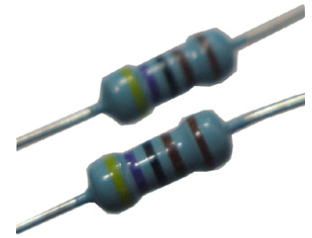
Operating ambient temperature : -55°C to +125°C

The resistor's surface coats blue color

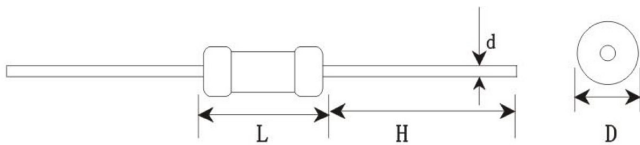
Rohs Compliant

### Electrical Characteristics

Item	Performance Requirement	Test Methods
Temperature Coefficient	±10PPM, ±25PPM, ±50PPM, ±100PPM	JIS5202-5.2
Short time Overload	$\Delta R \leq \pm(0.5\%R_0 + 0.05R)$	JIS5202-5.5
Pulse Overload	$\Delta R \leq \pm(1\%R_0 + 0.05R)$	JIS5202-5.8
Resistance to Soldering Heat	$\Delta R \leq \pm(0.5\%R_0 + 0.05R)$	JIS5202-6.4
Solderability	The area of soldering is over 95%	JIS5202-6.5
Temperature Cycling	$\Delta R \leq \pm(0.5\%R_0 + 0.05R)$	JIS5202-7.4
Load Life in Humidity	$\Delta R \leq \pm(2\%R_0 + 0.1R)$	JIS5202-7.9
Load Life	$\Delta R \leq \pm(2\%R_0 + 0.1R)$	JIS5202-7.10



### 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	
ER2-1/6W(1/4Ws)	3.5	1.7	28.0	0.45	1R	22M	±1%, ±0.1%
ER2-1/4W(1/2Ws)	6.0	2.3	28.0	0.54	1R	22M	±1%, ±0.1%
ER2-1/2W(1Ws)	9.5	3.2	26.0	0.58	1R	10M	±1%, ±0.1%
ER2-1W(2Ws)	11.5	4.5	26.0	0.78	1R	10M	±1%, ±0.1%
ER2-2W(3Ws)	15.0	5.0	26.0	0.78	1R	10M	±1%, ±0.1%
ER2-3W	17.0	6.0	30.0	0.78	1R	10M	±1%, ±0.1%
ER2-5W	25.0	8.0	35.0	0.78	1R	10M	±1%, ±0.1%

Note: "s" means small size type,

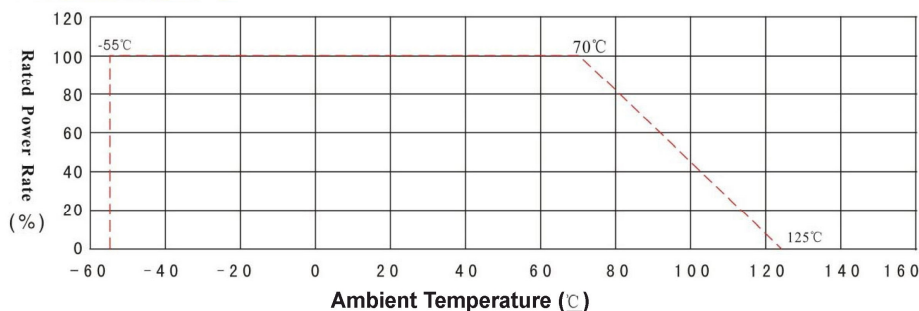
Special Resistance and Tolerance available

### Performance Parameters

Parameters Power Rated	Max. Working Voltage	Max. Overload Voltage	Max. Pulse Overload Voltage	Withstand Voltage
1/6W	150V	300V	300V	300V
1/4Ws	150V	300V	300V	300V
1/4W	250V	500V	500V	500V
1/2Ws	250V	500V	500V	500V
1/2W	300V	600V	700V	700V
1Ws	300V	600V	700V	700V
1W	500V	700V	700V	1000V
2Ws	500V	700V	700V	1000V
2W	500V	1000V	1000V	1000V
3Ws	500V	1000V	1000V	1000V

### Power Rated Derating Curve

Rated Power Derating Curve



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