

# Resistor

## ER7 - Aluminium Housed Wire Wound Fixed Resistor



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

**Elecsound** Aluminum Housed wire wound resistor is Good performance in heat radiation, and suitable for cooling plate installation

**Elecsound** Aluminum Housed wire wound resistor is Operating ambient temperature: -55°C to +125°C, Small size, and high power load

**Elecsound** Aluminum Housed wire wound resistor is High insulating capacity, Aluminum package with gold or silver color

### Electrical Characteristics

Item	Performance Requirement	Test Methods
Temperature Coefficient	±50PPM, ±100PPM, ±300PPM	JIS5202-5.2
Short time Overload	$\Delta R \leq \pm(2\%R_0 + 0.05R)$	JIS5202-5.5
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
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

### ER7-Aluminum Housed Wire Wound Fixed Resistor Inductive Type Diameter And Size (Unit: mm)



Part No.	Dimensions (mm)				Resistance Range (OHM)		Tolerance
	L±1.0	D±0.5	H±1	d±0.05	Min. Value	Max. Value	
ER7-1/2W	9.0	3.5	25.0	0.65	0.1R	510R	±1%, ±5%
ER7-1W	10.0	4.0	28.0	0.75	0.1R	1K	±1%, ±5%
ER7-2W	12.0	5.0	28.0	0.80	0.1R	2K	±1%, ±5%
ER7-3W	16.0	5.5	28.0	0.80	0.1R	5.1K	±1%, ±5%
ER7-5W	17.5	6.5	28.0	0.80	0.1R	5.1K	±1%, ±5%
ER7-6W	22.0	8.0	38.0	0.80	0.1R	3.3K	±1%, ±5%
ER7-7W	25.0	8.0	38.0	0.80	0.1R	3.3K	±1%, ±5%
ER7-8W	30.0	8.0	38.0	0.80	0.5R	3.3K	±1%, ±5%
ER7-10W	31.0	8.0	38.0	0.80	0.5R	3.3K	±1%, ±5%
ER7-12W	43.0	8.5	38.0	1.00	1R	3.3K	±1%, ±5%
ER7-15W	52.0	8.5	38.0	1.00	1R	3.3K	±1%, ±5%

Note: Special size, Resistance and Tolerance available

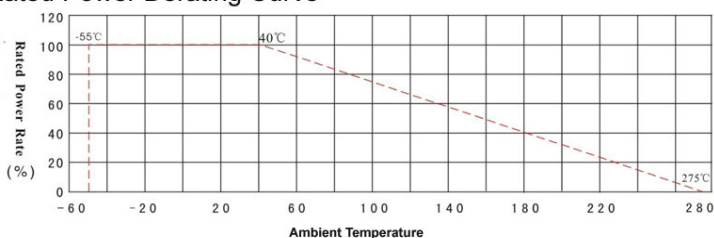
### ER7-Aluminum Housed Wire Wound Fixed Resistor NON Inductive Type Diameter And Size (Unit: mm)

Part No.	Dimensions (mm)				Resistance Range (OHM)		Tolerance
	L±1.0	D±0.5	H±1	d±0.05	Min. Value	Max. Value	
ER7-1/2W	9.0	3.5	25.0	0.65	0.05R	10R	±1%, ±5%
ER7-1W	10.0	4.0	28.0	0.75	0.05R	10R	±1%, ±5%
ER7-2W	12.0	5.0	28.0	0.80	0.05R	15R	±1%, ±5%
ER7-3W	16.0	5.5	28.0	0.80	0.05R	22R	±1%, ±5%
ER7-5W	17.5	6.5	28.0	0.80	0.05R	33R	±1%, ±5%
ER7-6W	22.0	8.0	38.0	0.80	0.05R	47R	±1%, ±5%
ER7-7W	25.0	8.0	38.0	0.80	0.05R	47R	±1%, ±5%
ER7-8W	30.0	8.0	38.0	0.80	0.05R	47R	±1%, ±5%
ER7-10W	31.0	8.0	38.0	0.80	0.05R	47R	±1%, ±5%
ER7-12W	43.0	8.5	38.0	1.00	0.5R	100R	±1%, ±5%
ER7-15W	52.0	8.5	38.0	1.00	0.5R	100R	±1%, ±5%

Note: Special size, Resistance and Tolerance available

### Power Rated Derating Curve

Rated Power Derating Curve



Surface Temperature Rise Curve

