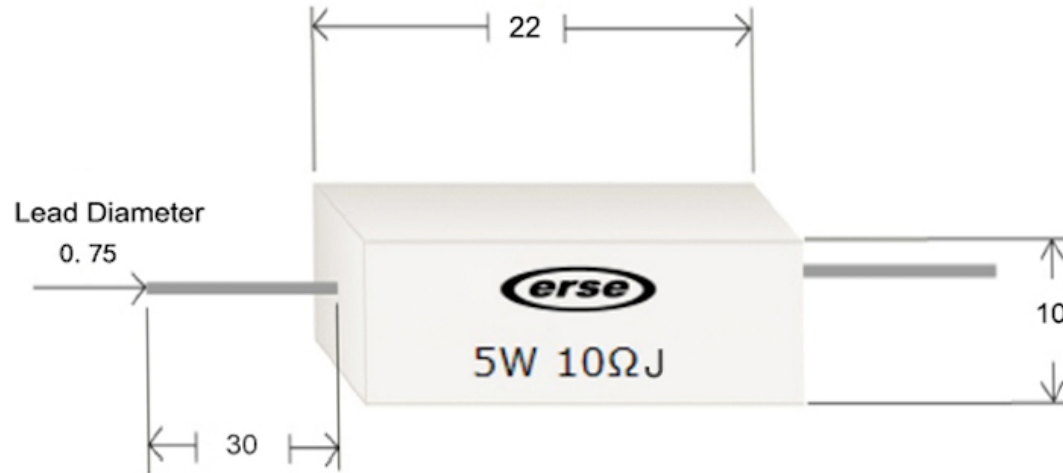


## Cement Wire Wound Resistors



### Description

ERSE's cement wire wound resistors are constructed for applications requiring minimal board space, low heat dissipation, and low cost. These audio grade resistors are packaged in a nonflammable cement casing and with an inorganic potting mix. This combination provides resistance to the elements and high thermal conductivity. With features like High Surge Capabilities and small sizes, the ERSE cements wire wound resistor is perfect for all high power applications.

ERSE resistors are available in many stocked and un-stocked values. View parts list for more information!

Most Wire Wound Resistors are lead free (RoHS Compliant)

### Features

- > Small Dimensions
- > Complete Isolated Construction
- > Surge Overload Capabilities
- > Resistant to Moisture
- > Superior Heat Dissipation
- > 5W 10W, and 25W units
- > Wide Resistance Range
- > RoHS Compliant

### Specifications

- > Tolerance:  $\pm 5\%$  centered on nominal value
- > Temperature Coefficient:
- > Under  $9.9\Omega \pm 50\text{PPM}/^\circ\text{C}$
- > Over  $10.0\Omega \pm 30\text{PPM}/^\circ\text{C}$
- > Temperature Range:  $-55^\circ\text{C}$  to  $275^\circ\text{C}$
- > Max Working Voltage: 750 Vac for 1 Min.
- > Incombustibility: 100W for 5 Minutes, No Flame
- > Short Term Over Load:  $\pm 2\%$ , 100W for 5 Seconds
- > Rate Load:  $\pm 1\%$ , 10W for 30 Minutes
- > Load Life:  $\pm 5\%$ ,  $70^\circ\text{C}$  On-Off Cycle 1,000 Hours

**Cement Wire Wound Resistors****Non-inductive 5W series**

Part number	Resistance	Power Handling	Tolerance	Length (±1.5mm)	Width (±1.5mm)	Lead Diameter	Lead Length
ENWR5-05-1.0/PB	1.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-2.2/PB	2.2Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-3.3/PB	3.3Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-3.9/PB	3.9Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-4.7/PB	4.7Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-5.6/PB	5.6Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-6.8/PB	6.8Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-8.2/PB	8.2Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-10.0/PB	10.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-12.0/PB	12.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-15.0/PB	15.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-18.0/PB	18.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-22.0/PB	22.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm
ENWR5-05-33.0/PB	33.0Ω	5W	5%	22 mm	10 mm	0.75 mm	30 mm

**Cement Wire Wound Resistors****Inductive 5W series**

Part number	Resistance	Power Handling	Tolerance	Length ( $\pm 1.5$ mm)	Width ( $\pm 1.5$ mm)	Lead Diameter	Lead Length
EWR10-05-1.0/PB	1.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-2.2/PB	2.2 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-3.3/PB	3.3 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-3.9/PB	3.9 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-4.7/PB	4.7 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-5.6/PB	5.6 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-6.8/PB	6.8 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-8.2/PB	8.2 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-10.0/PB	10.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-12.0/PB	12.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-15.0/PB	15.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-18.0/PB	18.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-22.0/PB	22.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm
EWR10-05-33.0/PB	33.0 $\Omega$	5W	5%	22 mm	10 mm	0.75 mm	30 mm