

## Cement Fixed Resistors

### Performance Specification

Temperature Coefficient	<20Ω: ±400PPM/°C; ≥20Ω: ±350PPM/°C
Short Time Overload	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature Cycling	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Humidity (Steady state)	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life in Humidity	Wire-wound ±(5.0% + 0.05Ω)Max Power Film <100KΩ: ±(5.0% + 0.05Ω)Max ≥100KΩ: ±(10.0% + 0.05Ω)Max
Load Life	Wire-wound ±(5.0% + 0.05Ω)Max Power Film <100KΩ: ±(5.0% + 0.05Ω)Max ≥100KΩ: ±(10.0% + 0.05Ω)Max

### Ordering Procedure: Ex.: PRW 5W, +/-5%, 100Ω, B/B

P R W 0 5 W J P 1 0 1 B 0 0

Type:

PRW0 = PRW  
 PRWA = PRWA  
 PRWC = PRWC  
 PRC1 = PRWC-1  
 PRM0 = PRM  
 PRMA = PRMA  
 PRMB = PRMB  
 PRS0 = PRS  
 PRVA = PRVA  
 PRVB = PRVB  
 PZ1A = PRZA-1  
 PZ2A = PRZA-2  
 PZ3A = PRZA-3  
 PRZC = PRZC  
 PRZD = PRZD  
 PRT0 = PRT  
 PRU0 = PRU  
 PRWI = PRWI  
 TFRC = TFRC

Wattage:

1W = 1W  
 2W = 2W  
 3W = 3W  
 4W = 4W  
 5W = 5W  
 6W = 6W  
 7W = 7W  
 AW = 10W  
 BW = 11W  
 HW = 17W  
 FW = 15W  
 20 = 20W  
 25 = 25W  
 30 = 30W  
 40 = 40W

Tolerance:

J = ±5%  
 K = ±10%

Resistance Value:

• E-24 series:  
 1<sup>st</sup> digit denotes product type  
 W = Wire-wound type  
 P = Power Film type  
 2<sup>nd</sup> & 3<sup>rd</sup> digits are significant figures of the resistance  
 4<sup>th</sup> indicates the number of zeros  
 "J" ~ 0.1, "K" ~ 0.01  
 Ex. 4.7Ω ~ 47J, 4.7KΩ ~ 472

Packing Type:

B = Bulk/Box

Packing Qty:

0 = Bulk/Box

Additional Information:

0 = Standard  
 I = Non-inductive

## Cement Fixed Resistors

### Performance Specification

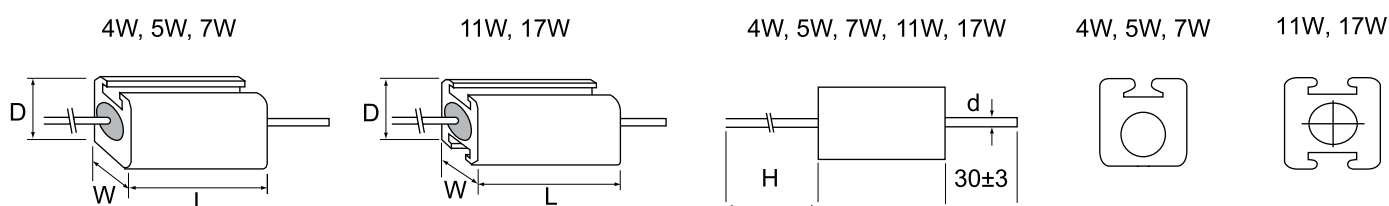
Temperature Coefficient	<20Ω: ±400PPM/°C; ≥20Ω: ±350PPM/°C
Short Time Overload	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature Cycling	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Humidity (Steady State)	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life in Humidity	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.

### Features

- Vertical or Axial type
- Rated power: 4W - 17W
- Tolerance: 5%, 10%
- Wire-wound technology
- Withstand high overload current
- Non - flammable
- Extremely small, sturdy and mechanically safe
- Special solvent resistance



### PRWI Type



Part No.	Style	Power Rating at 70°C	Dimension (mm)					Low Resistance Range	Standard Resistance Range	High Resistance Range
			W±1	D±1	L±1	H±1	d±0.05			
PRWI4W	PRWI4W	4W	7	8	20	56	0.75	0.1Ω ~ 0.9Ω	1Ω ~ 1KΩ	1.1Ω ~ 6.8KΩ
PRWI5W	PRWI5W	5W	7.5	8.5	25	60	0.75	0.1Ω ~ 0.9Ω	1Ω ~ 1KΩ	1.1Ω ~ 6.8KΩ
PRWI7W	PRWI7W	7W	7	8	38	70	0.75	0.33Ω ~ 0.9Ω	1Ω ~ 10KΩ	10.1Ω ~ 22KΩ
PRWIBW	PRWI11W	11W	9	10	50	85	0.75	0.56Ω ~ 0.9Ω	1Ω ~ 10KΩ	10.1Ω ~ 23KΩ
PRWIHW	PRWI17W	17W	9	10±1.5	75	110	0.75	0.1Ω ~ 0.9Ω	1Ω ~ 10KΩ	10.1Ω ~ 39KΩ

Remarks: Max Working Voltage: 500V  
 Max Overload Voltage: 1,000V  
 Dielectric withstanding voltage: 2,000V

### Derating Curve

