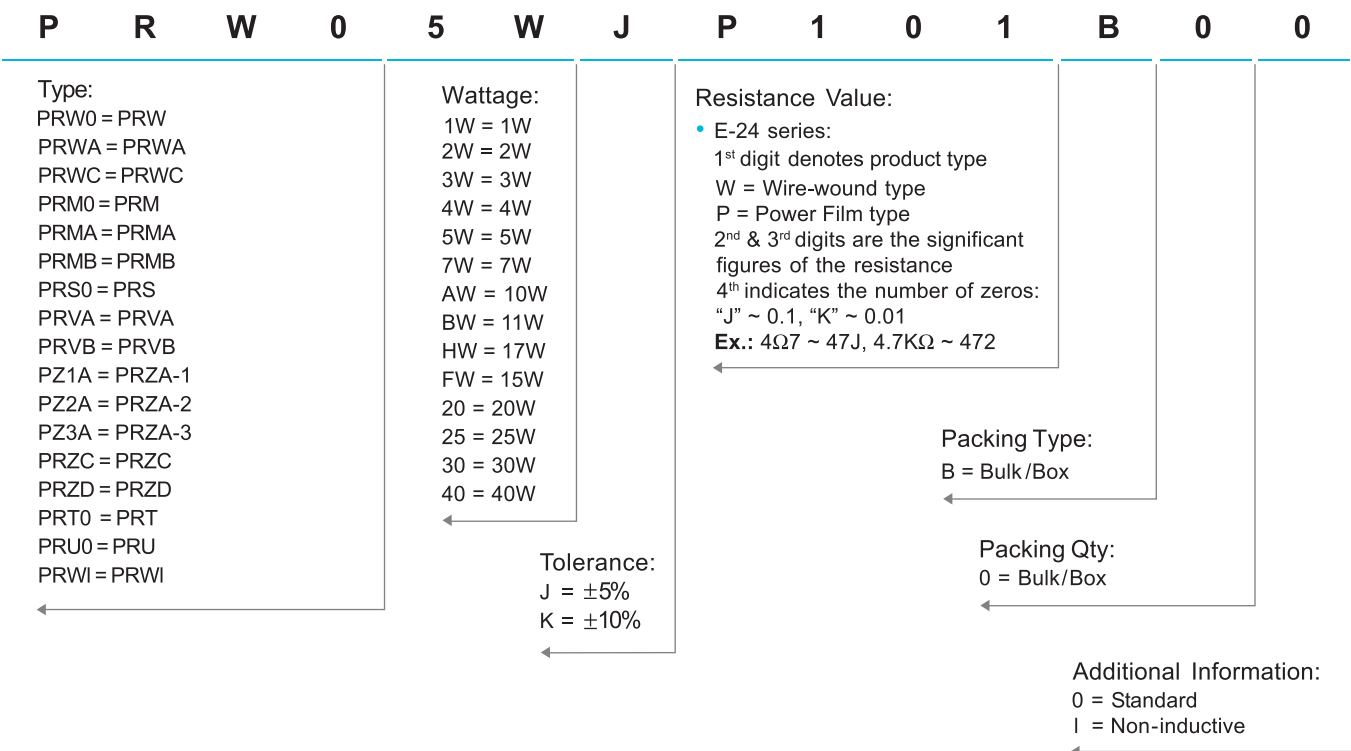


Cement Fixed Resistors

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 |

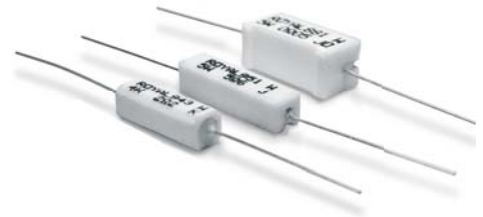
Ordering Procedure: Ex.: PRW 5W, +/- 5%, 100Ω, B/B



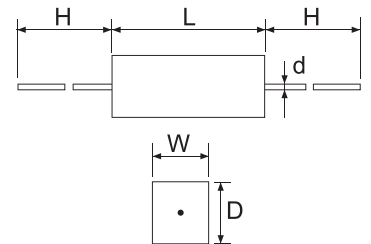
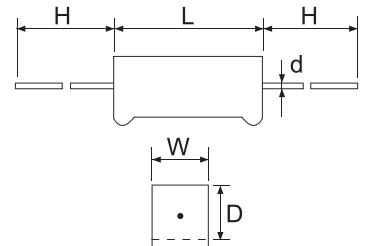
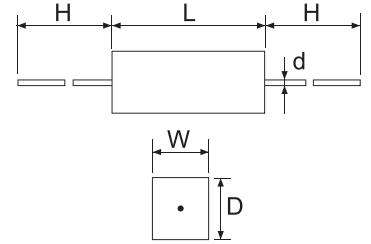
Cement Fixed Resistors

Features

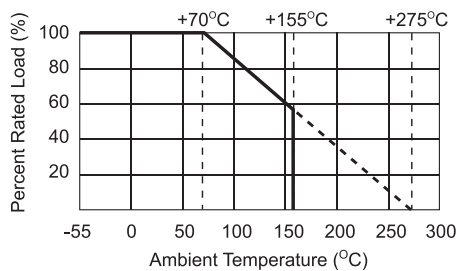
- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanically safe
- Non-inductive types available for all ROYALOHM Cement Resistors
- Too low or too high ohmic values on Wire-wound & Power Film type can be supplied on a case to case basis



| Part No. | Style | Power Rating at 70°C | Dimension (mm) | | | | | Resistance Range | |
|---|----------|----------------------|----------------|------|-----|--------|-----|------------------|--------------|
| | | | W±1 | D±1 | L±1 | d±0.05 | H±5 | Wire-wound | Power Film |
| PRW Type | | | | | | | | | |
| PRW01W | PRW 1W | 1W | 6 | 6 | 14 | 0.70 | 25 | 1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRW02W | PRW 2W | 2W | 7 | 7 | 18 | 0.75 | 28 | 0.1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRW03W | PRW 3W | 3W | 8 | 8 | 22 | 0.75 | 32 | 0.1Ω ~ 39Ω | 40Ω ~ 56KΩ |
| PRW05W | PRW 5W | 5W | 10 | 9 | 22 | 0.75 | 35 | 0.1Ω ~ 47Ω | 48Ω ~ 100KΩ |
| PRW07W | PRW 7W | 7W | 10 | 9 | 35 | 0.75 | 35 | 0.1Ω ~ 680Ω | 681Ω ~ 200KΩ |
| PRW0AW | PRW 10W | 10W | 10 | 9 | 49 | 0.75 | 35 | 0.1Ω ~ 910Ω | 911Ω ~ 200KΩ |
| PRW0FW | PRW 15W | 15W | 12.5 | 11.5 | 49 | 0.75 | 35 | 1Ω ~ 1KΩ | |
| PRW020 | PRW 20W | 20W | 14.5 | 13.5 | 60 | 0.75 | 35 | 2Ω ~ 1.2KΩ | |
| PRW025 | PRW 25W | 25W | 14.5 | 13.5 | 64 | 0.75 | 35 | 2Ω ~ 1.2KΩ | |
| PRWA Type | | | | | | | | | |
| PRWA2W | PRWA 2W | 2W | 7 | 7 | 18 | 0.75 | 28 | 0.1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRWA3W | PRWA 3W | 3W | 8 | 8 | 22 | 0.75 | 32 | 0.1Ω ~ 39Ω | 40Ω ~ 56KΩ |
| PRWA5W | PRWA 5W | 5W | 10 | 9 | 22 | 0.75 | 35 | 0.1Ω ~ 47Ω | 48Ω ~ 100KΩ |
| PRWA7W | PRWA 7W | 7W | 10 | 9 | 35 | 0.75 | 35 | 0.1Ω ~ 680Ω | 681Ω ~ 200KΩ |
| PRWAAW | PRWA 10W | 10W | 10 | 9 | 49 | 0.75 | 35 | 0.1Ω ~ 910Ω | 911Ω ~ 200KΩ |
| PRWC Type | | | | | | | | | |
| PRWC1W | PRWC 1W | 1W | 5.5 | 5.5 | 12 | 0.70 | 25 | 1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRWC2W | PRWC 2W | 2W | 6 | 6 | 18 | 0.75 | 28 | 1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRWC3W | PRWC 3W | 3W | 6 | 6 | 20 | 0.75 | 28 | 1Ω ~ 27Ω | 28Ω ~ 33KΩ |
| PRWC5W | PRWC 5W | 5W | 6 | 6 | 25 | 0.75 | 35 | 1Ω ~ 200Ω | 201Ω ~ 100KΩ |
| PRWC7W | PRWC 7W | 7W | 9 | 9 | 25 | 0.75 | 35 | 1Ω ~ 200Ω | 201Ω ~ 100KΩ |
| Remark: Max Working Voltage: 500V Max Overload Voltage: 1,000V | | | | | | | | | |



Derating Curve
(PRW, PRM, PRS, PRZ, PRV, PRU)



Heat Rise Chart
(PRW, PRWA, PRWC, PRU)

