

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
- 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

Wattage:

- 1W = 1W
- 2W = 2W
- 3W = 3W
- 4W = 4W
- 5W = 5W
- 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:
- 1st digit denotes product type
- W = Wire-wound type
- P = Power Film type
- 2nd & 3rd digits are the significant figures of the resistance
- 4th indicates the number of zeros:
- “J” ~ 0.1, “K” ~ 0.01
- Ex.:** 4Ω7 ~ 47J, 4.7KΩ ~ 472

Packing Type:

- B = Bulk/Box

Packing Qty:

- 0 = Bulk/Box

Additional Information:

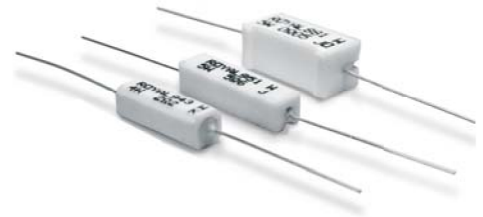
- 0 = Standard
- I = Non-inductive



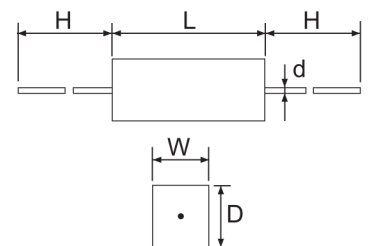
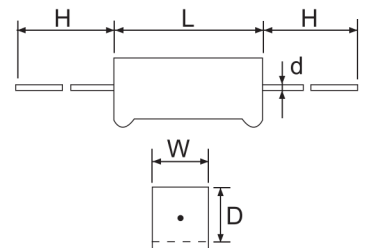
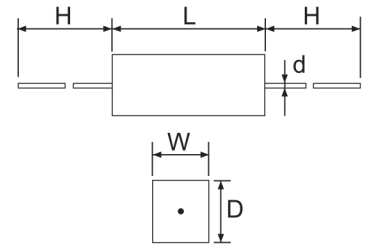
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Features

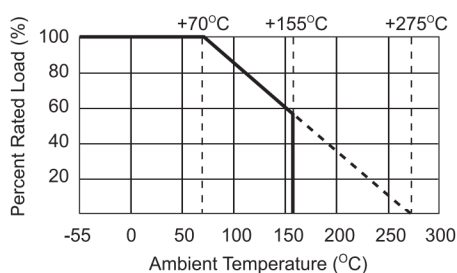
- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanically safe
- Non-inductive types available for all ROYALOHM Cement Resistors
- Too low or too high ohmic values on Wire-wound & Power Film type can be supplied on a case to case basis



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)

