

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

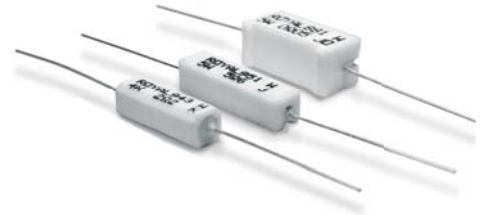
Ordering Procedure: Ex.: PRW 5W, +/- 5%, 100Ω, B/B

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		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	
							Tolerance: J = ±5% K = ±10%												

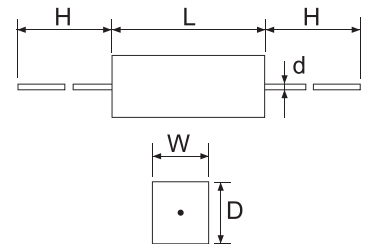
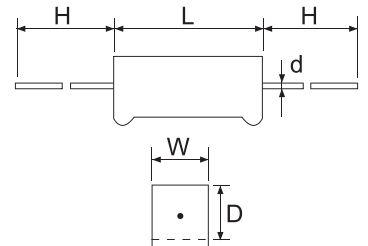
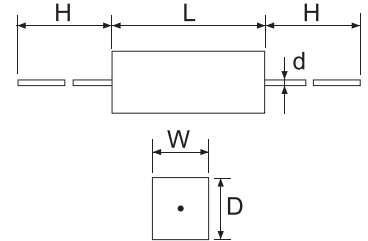
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Features

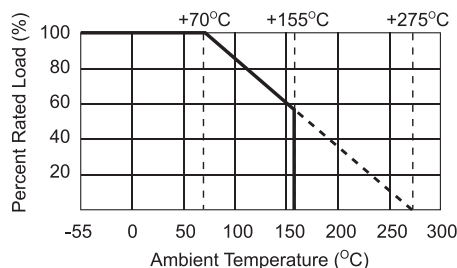
- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanically safe
- Non-inductive types available for all ROYALOHM Cement Resistors
- Too low or too high ohmic values on Wire-wound & Power Film type can be supplied on a case to case basis



Part No.	Style	Power Rating at 70℃	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)

