

CEMENT FIXED RESISTORS

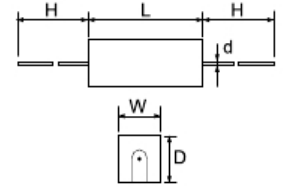
Features

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanically safe
- Too low or too high ohmic values on Wire-wound & Power Film type can be supplied on a case to case basis



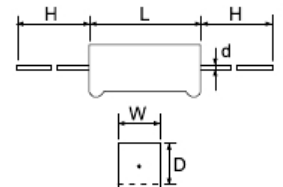
PRW TYPE

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
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	



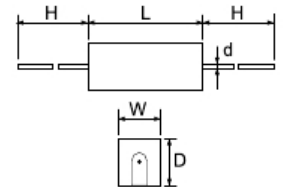
PRWA TYPE

PRWA2W	PRWA 2W	2W	7	7	18	0.75	28	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 100W	100W	10	9	49	0.75	35	0.1Ω ~ 910Ω	911Ω ~ 200KΩ



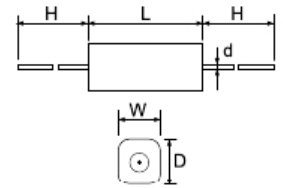
PRWC TYPE

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



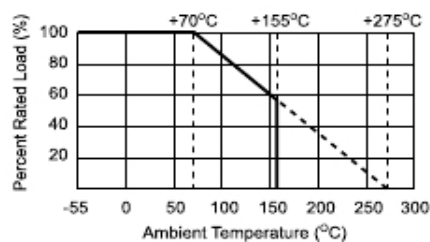
PRWC-1 TYPE

PRC14W	PRWC-14W	4W	6.4	6.4	20	0.70	28	1Ω ~ 200Ω	201Ω ~ 100KΩ
PRC15W	PRWC-15W	5W	6.4	6.4	25	0.70	28	1Ω ~ 200Ω	201Ω ~ 100KΩ
PRC16W	PRWC-16W	6W	6.4	6.4	38	0.75	35	1Ω ~ 200Ω	201Ω ~ 100KΩ

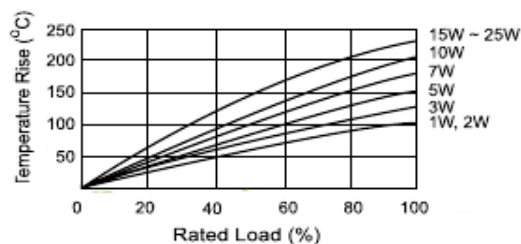


Remark: Max Working Voltage: 500V
Max Overload Voltage: 1,000V

Derating Curve



Heat Rise Chart



CEMENT FIXED RESISTORS

Performance Specifications

Temperature coefficient	< 20Ω: ±400PPM/°C; ≥ 20Ω: ±350PPW/°C
Short time overload	±(5.0% + 0.05Ω), 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), with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature cycling	±(2.0% + 0.05Ω), with no evidence of mechanical damage.
Humidity (Steady state)	±(5.0% + 0.05Ω), 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
PRWC1 = 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 = PRZE
PRT0 = PRT
PRU0 = PRU
PRW1 = PRW1
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:
1th 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