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

Packing Type:
B = Bulk/Box

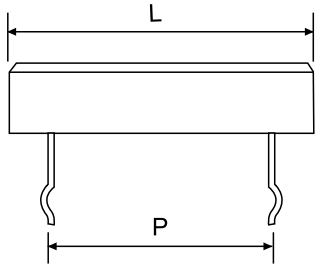
Packing Qty:
0 = Bulk/Box

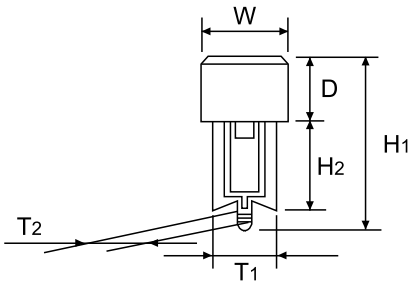
Additional Information:
0 = Standard
I = Non-inductive

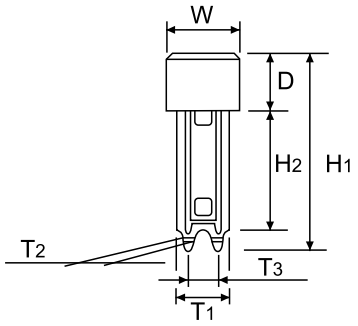
RoHS Compliant

Cement Fixed Resistors

PRZA-1, PRZA-2, PRZA-3, PRZC, PRZD Type



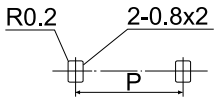
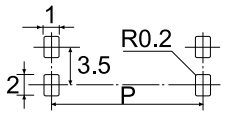
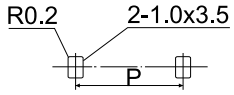
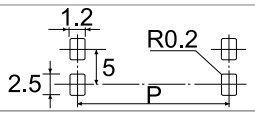




Recommended Hole

PRZA-1, PRZA-2, PRZA-3

PRZC, PRZD

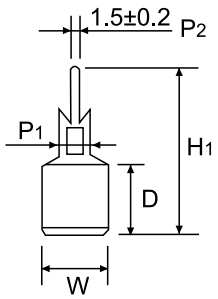
Power Rating at 70°C	Dimension (mm)		
	PRZA-1, PRZA-2, PRZA-3	PRZC, PRZD	P
5W			9.5 / 15
7W			22
10W			32 / 35
15W			32
20W			45

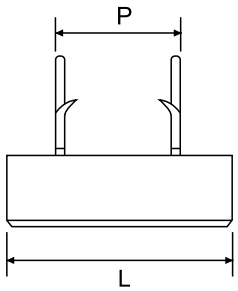
Cement Fixed Resistors

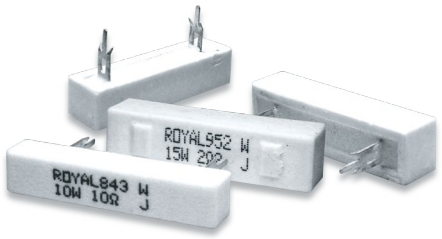
Part No.	Style	Power Rating at 70°C	Dimension (mm)									Resistance Range	
			W±1	D±1	L	P±1.5	T1±1	T2±0.2	T3±0.5	H1 + 2 - 1	H2 + 2 - 1	Wire-wound	Power Film
PZ1A5W	PRZA-1	5W	10	9	25±1	9.5	7	1.6		24	10	0.1Ω ~ 120Ω	121Ω ~ 56KΩ
					27±1	15							
PZ2A5W	PRZA-2		10	9	27±1	15	7	1.6		39	25		
PZ3A5W	PRZA-3		10	9	27±1	15	7	1.3		39	25		
PRZC5W	PRZC		10	9	27±1	*15	7	1.5	3.5	36	22		
PRZD5W	PRZD		10	9	27±1	15	7	1.5	3.5	24	10		
PZ1A7W	PRZA-1	7W	10	9	35±1	22	7	1.6		24	10	0.1Ω ~ 560Ω	561Ω ~ 100KΩ
PZ2A7W	PRZA-2		10	9	35±1	22	7	1.6		39	25		
PRZC7W	PRZC		10	9	35±1	*22	7	1.5	3.5	36	22		
PRZD7W	PRZD		10	9	35±1	22	7	1.5	3.5	24	10		
PZ1AAW	PRZA-1	10W	10	9	48±1.5	32 / 35	7	1.6		24	10	1Ω ~ 820Ω	821Ω ~ 100KΩ
PZ2AAW	PRZA-2		10	9	48±1.5	32 / 35	7	1.6		39	25		
PRZCAW	PRZC		10	9	48±1.5	*32 / *35	7	1.5	3.5	36	22		
PRZDAW	PRZD		10	9	48±1.5	32 / 35	7	1.5	3.5	24	10		
PZ1AFW	PRZA-1	15W	12.5	11.5	48±1.5	32	10	3		35	15	1Ω ~ 1KΩ	
PZ2AFW	PRZA-2		12.5	11.5	48±1.5	32	10	3		47	30		
PRZCFW	PRZC		12.5	11.5	48±1.5	*32	10	2	5	47	30		
PZ1A20	PRZA-1	20W	12.5	13.5	63±1.5	45	10	3		35	15	2Ω ~ 1.2KΩ	
PZ2A20	PRZA-2		12.5	13.5	63±1.5	45	10	3		47	30		
PRZC20	PRZC		12.5	13.5	63±1.5	*45	10	2	5	47	30		

* PRZC Type Pitch Tolerance = +2 ~ +6 Remark: Max Worldrg Voltage: 500V
Max Overload Voltage: 1,000V

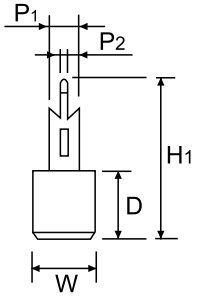
PRVA Type

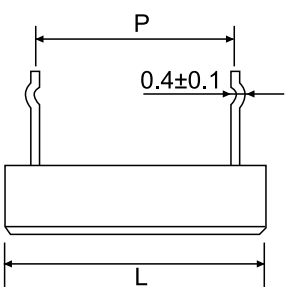




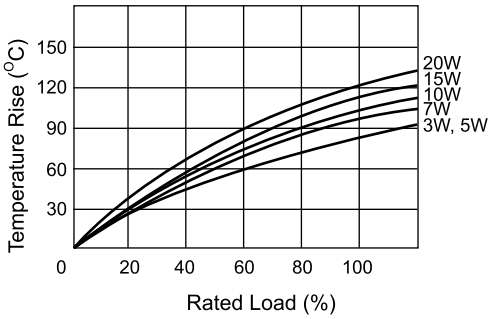


PRVB Type





Heat Rise Chart (PRVA/PRVB)



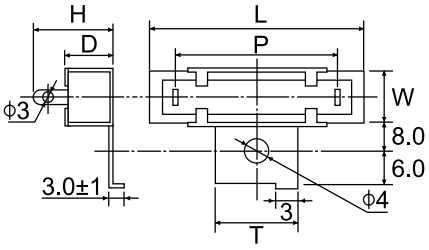
RoHS Compliant

Cement Fixed Resistors

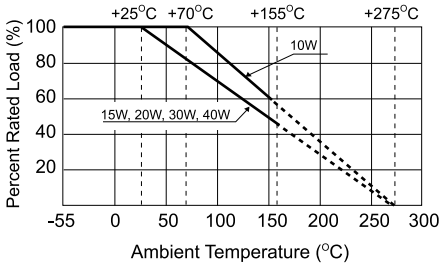
Part No.	Power Rating at 70°C	Dimension (mm)							Resistance Range	
		W±1	D±1	L±1	P±1	P1±1	H1±1	*P2±0.2	Wire-wound	Power Film
PRVA3W / PRVB3W	3W	10	9	22	9.5	5	25	1.5 / 1.3	0.1Ω ~ 47Ω	48Ω ~ 33KΩ
PRVA5W / PRVB5W	5W	10	9	27 / 25	15 / 9.5	5	25	1.5 / 1.3	0.1Ω ~ 120Ω	121Ω ~ 56KΩ
PRVA7W / PRVB7W	7W	10	9	35	22	5	25	1.5 / 1.3	0.1Ω ~ 560Ω	561Ω ~ 100KΩ
PRVAAW / PRVBAW	10W	10	9	48	32	5	25	1.5 / 1.3	1Ω ~ 820Ω	821Ω ~ 100KΩ
PRVAFW / PRVBFW	15W	12.5	11.5	48	32	5	24	1.5	1Ω ~ 1KΩ	
PRVA20 / PRVB20	20W	12.5	13.5	63	45	5	26	1.5	1Ω ~ 1.2KΩ	

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

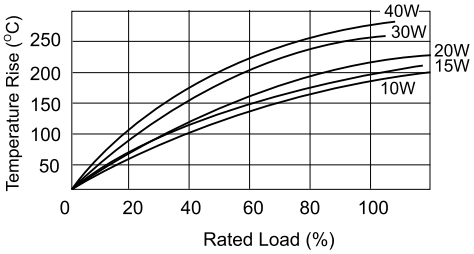
PRT Type



Derating Curve



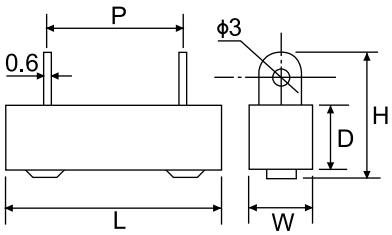
Heat Rise Chart (PRT)



Part No.	Style	Power Rating at 70°C	Dimension (mm)						Resistance Range	
			W±1	D±1	L±1	P±1	H±1	T±1	Wire-wound	Power Film
PRT0AW	PRT 10W	10W	10	9	48	32	18	12	1Ω ~ 820Ω	821Ω ~ 100KΩ
PRT0FW	PRT 15W	15W	12.5	11.5	48	32	21	12	1Ω ~ 1KΩ	
PRT020	PRT 20W	20W	12.5	13.5	63	45	21	12	2Ω ~ 1.2KΩ	
PRT030	PRT 30W	30W	19	19	75	56	32 Max	18	3Ω ~ 1.5KΩ	
PRT040	PRT 40W	40W	19	19	90	70	32 Max	18	6Ω ~ 1.5KΩ	

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

PRU Type



Part No.	Style	Power Rating at 70°C	Dimension (mm)					Resistance Range	
			W±1	D±1	L±1	P±1	H±1	Wire-wound	Power Film
PRU0AW	PRU 10W	10W	10	9	48	32	18	1Ω ~ 820Ω	821Ω ~ 100KΩ
PRU0FW	PRU 15W	15W	12.5	11.5	48	32	21	1Ω ~ 1KΩ	
PRU020	PRU 20W	20W	12.5	13.5	63	45	21	2Ω ~ 1.2KΩ	
PRU030	PRU 30W	30W	19	19	75	56	32 Max	3Ω ~ 1.5KΩ	
PRU040	PRU 40W	40W	19	19	90	70	32 Max	6Ω ~ 1.5KΩ	

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

RoHS Compliant