



PR9437-SERIES

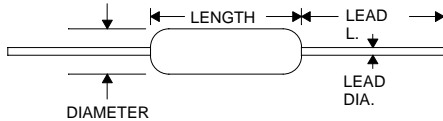
PRECISION HIGH VOLTAGE RESISTORS

PRECISION RESISTIVE PRODUCTS, INC.
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 PRP HOME PAGE <http://www.prpinc.com>

- Ideal for Industrial Measurement Applications:
(X-Ray, Electron Microscope, Semiconductor Test & Etc.)
- Tight Tolerances to 0.1%
- Low Temperature Coefficient
- Flame Retardant
- Wide Range of Ohmic Values
- Small Size, High Reliability

Dimensions (mm)

| Style | Length | Diameter | Lead Dia. | Lead L. |
|--------|---------|----------|-----------|---------|
| HV 1/8 | 6 ±1 | 2±0.6 | 0.6 ±0.05 | 30 ±3 |
| HV 1/4 | 9 ±1 | 3 ±1 | 0.6 ±0.05 | 38 ±3 |
| HV 1/2 | 13 ±1 | 4.5 ±1 | 0.8 ±0.05 | 38 ±3 |
| HV 1 | 14.5 ±1 | 4.5 ±1 | 0.8 ±0.05 | 38 ±3 |
| HV 2 | 26.5 ±1 | 5.5 ±1 | 0.8 ±0.05 | 38 ±3 |
| HV 3 | 42 ±2 | 5.5 ±1 | 0.8 ±0.05 | 38 ±3 |



Higher wattage/voltage units (to 16W/60kV) available on request.
 Tighter temperature coefficients available on request.

Performance Characteristics

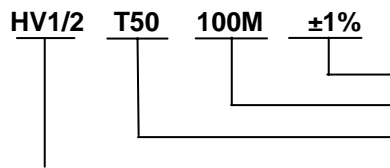
| | | |
|------------------------------|----------|---|
| Load Life | ΔR ±0.5% | 25°C, ½ rated Power, 3,000 hrs |
| Short Time Overload | ΔR ±0.5% | Rated voltage x 2.5 for 5 sec. |
| Long-Term Stability | ΔR ±0.5% | 25°C for 10,000 hrs |
| Load Life (moisture) | ΔR ±0.5% | 40°C, 90-95% RH, ½ rated Power, 1,000 hrs |
| Resistance to Soldering Heat | ΔR ±0.2% | 350°C, 3 Sec. |

Operating Temperature Range is -55°C to +150°C

How to Order

[Standard Decade Values](#)

Sample Part Number



Resistance Tolerance
 Resistance Value
 Temperature Coefficient
 Style

Add "T" at the end of the Style portion of the part number for lead free termination.

DEDICATION TO EXCELLENCE

Specifications

| Style | Rated Power ($P=V^2/R$) | PPM/°C | Tolerance (%) | Resistance Range (Mohms) | | Working Voltage DC kV (Max.) | Pulse Voltage(kV) 50uSec |
|---------------|------------------------------|--------|-----------------|--------------------------|------|---------------------------------|-----------------------------|
| | | | | Min. | Max. | | |
| HV 1/8 | 1/8W | 25 | .5, 1, 2, 5, 10 | .1 to 50 | | .5 | 1.25 |
| | | 50 | .5, 1, 2, 5, 10 | .05 to 100 | | | |
| | | 100 | .5, 1, 2, 5, 10 | .01 to 100 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .01 to 500 | | | |
| HV 1/4 | 1/4W | 25 | .1, .25 | .1 to 100 | | .75 | 1.5 |
| | | | .5, 1, 2, 5, 10 | .1 to 50 | | | |
| | | 50 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 100 | | | |
| | | 100 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .01 to 300 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .01 to 1000 | | | |
| | | | | | | | |
| HV 1/2 | 1/2W | 25 | .1, .25 | .1 to 100 | | 1.5 | 3 |
| | | | .5, 1, 2, 5, 10 | .1 to 50 | | | |
| | | 50 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 100 | | | |
| | | 100 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 1000 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .1 to 5000 | | | |
| | | | | | | | |
| HV 1 | 1W | 25 | .1, .25 | .1 to 100 | | 2 | 4 |
| | | | .5, 1, 2, 5, 10 | .1 to 100 | | | |
| | | 50 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 500 | | | |
| | | 100 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 2000 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .1 to 10000 | | | |
| | | | | | | | |
| HV 2 | 2W | 25 | .1, .25 | .1 to 100 | | 5 | 10 |
| | | | .5, 1, 2, 5, 10 | .1 to 100 | | | |
| | | 50 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 500 | | | |
| | | 100 | .1, .25, | .1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 2000 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .1 to 10000 | | | |
| | | | | | | | |
| HV 3 | 3W | 25 | .1, .25 | 1 to 100 | | 10 | 20 |
| | | | .5, 1, 2, 5, 10 | 1 to 100 | | | |
| | | 50 | .1, .25, | 1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 500 | | | |
| | | 100 | .1, .25, | 1 to 100 | | | |
| | | | .5, 1, 2, 5, 10 | .1 to 2000 | | | |
| | | 200 | .5, 1, 2, 5, 10 | .1 to 10000 | | | |
| | | | | | | | |

Derating Curve

