



# HVC-SERIES

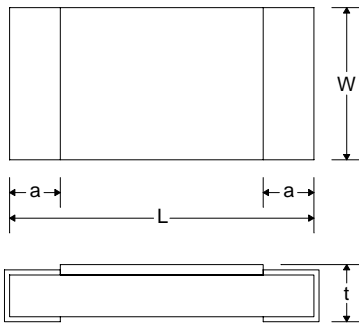
## HIGH VALUE CHIP RESISTOR

PRECISION RESISTIVE PRODUCTS, INC.  
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 E-Mail [info@prpinc.com](mailto:info@prpinc.com)  
 PRP HOME PAGE <http://www.prpinc.com>

- Ultra High Ohmic Values
- Standard Industry Case Sizes 0603, 0805, 1206 & 2512
- High Alumina Substrate
- Nickel Barrier Terminations
- 90/10 Solder Plated Terminations
- Packaging is Tape & Reel
- Wrap-Around Termination

### Dimensions Inches (mm) [Suggested Pad Layouts](#)

Style	L	W	t	a
<b>HVC 0603</b>	0.063 ±0.004 (1.6 ±0.1)	0.031 ±0.004 (0.8 ±0.1)	0.020 ±0.004 (0.5 ±0.1)	0.008 ±0.004 (0.2 ±0.1)
<b>HVC 0805</b>	0.079 ±0.006 (2.0 ±0.15)	0.049 ±0.006 (1.25 ±0.15)	0.020 ±0.006 (0.5 ±0.15)	0.016 ±0.010 (0.4 ±0.25)
<b>HVC 1206</b>	0.126 ±0.006 (3.2 ±0.15)	0.063 ±0.006 (1.6 ±0.15)	0.024 ±0.006 (0.6 ±0.15)	0.020 ±0.010 (0.5 ±0.25)
<b>HVC 2512</b>	0.250 ±0.006 (6.30 ±0.15)	0.126 ±0.006 (3.20 ±0.15)	0.024 ±0.006 (0.60 ±0.15)	0.024 ±0.010 (0.60 ±0.25)



### Rated Dissipation / Voltage

Style	Resistance Range (Ω)	Rated Dissipation (W)	Voltage Max. Working	Voltage Max. Overload
<b>HVC 0603</b>	1M to 150G	1/32	50	100
<b>HVC 0805</b>	1M to 150G	1/16	75	150
<b>HVC 1206</b>	1M to 150G	1/8	150	300
<b>HVC 2512</b>	1M to 150G	1	300	500

Available in E12 Values

### Temperature Coefficient / Resistance Tolerance

Style	T.C.R. PPM/°C	Resistance Range	Resistance Tolerance @25°C
		E-12	
<b>HVC 0603</b>	- 500 -1500 TO -2000	1M ~ 1.0G > 1.0G	±5%, ±10%, ±20%
<b>HVC 0805</b>	- 500 - 1500 TO -2000	1M ~ 1.0G > 1.0G	±5%, ±10%, ±20%
<b>HVC 1206</b>	- 500 - 1500 TO -2000	1M ~ 1.0G > 1.0G	±5%, ±10%, ±20%
<b>HVC 2512</b>	-500 -1500 TO -2000	1M ~ 1.0G > 1.0G	±5%, ±10%, ±20%

### Standard EIA Decade Table

#### E12 Values

1.0	3.3
1.2	3.9
1.5	4.7
1.8	5.6
2.2	6.8
2.7	8.2



DEDICATION TO EXCELLENCE

## Performance Data

Load Life	1000 Hrs. @ 70°C	$\Delta R \pm(3.0\% + .01\Omega)$
Humidity	1000 Hrs. @ 60°C 90~95%RH	$\Delta R \pm(2.0\% + .01\Omega)$
Temperature Cycle	5 Cycles -55°C to 125°C	$\Delta R \pm(1.0\% + .01\Omega)$
High Temp. Operation	1000 Hrs. @ 125°C	$\Delta R \pm(1.0\% + .01\Omega)$
Low Temp. Operation	1000 Hrs. @ -55°C	$\Delta R \pm(1.0\% + .01\Omega)$
Short Time Overload	2.5 X Rated Voltage 5 Sec.	$\Delta R \pm(1.0\% + .01\Omega)$
Effects of Soldering Heat	10 Sec. @ 270°C	$\Delta R \pm(1.0\% + .01\Omega)$
Operating Temperature Range is - 55°C to +125°C		

## Derating Curve

For resistors operated in ambient above 70°C, power dissipation must be derated in accordance with curve in Figure 1.

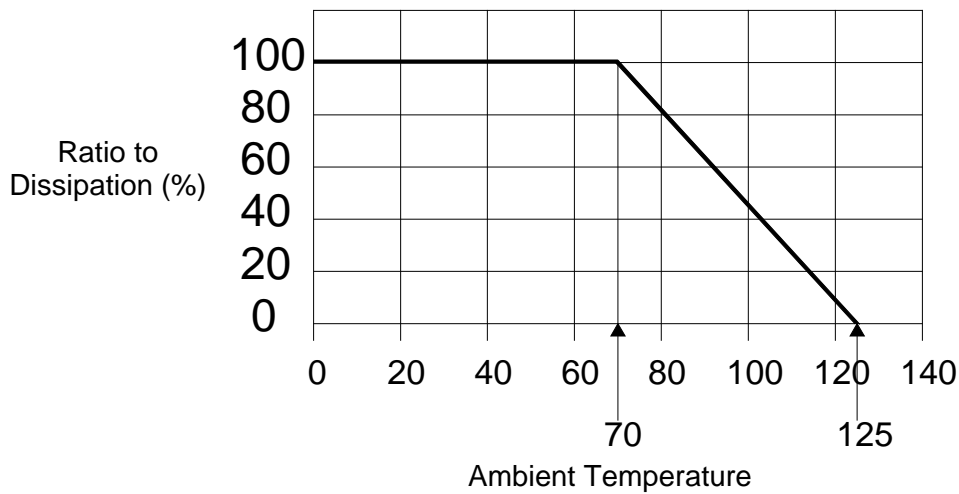
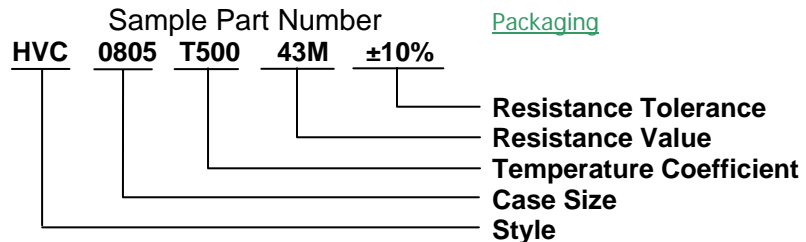


Figure 1

## How to Order

[Standard Decade Values](#)

[Packaging](#)



*Add "T" at the end of the Case Size portion of the part number for lead free termination.*