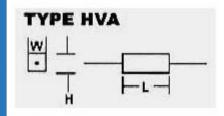


### JIN ZON ENTERPRISE CO., LTD.

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## HVA3 .5W Ultra Precision Wire Wound Rectangular Body Axial Lead Resistor



# PRC HVA3 0 1cm 2 3





#### **Electrical & physical Specifications:**

H-Height: 6.35mm (.250")
L-Length: 12.7mm (.500")
W-Width: 6.35mm (.250")
Lead Dimensions: .031" × 1" long min

#### **HVA Series Engineering Attributes:**

#### RESISTANCE & TOLERANCES

You can select any Ohmic value or decimal part of an Ohm with tolerances to  $\pm .005\%$ .  $10\Omega$  minimum resistance for  $\pm .01\%$  tolerance. See figure #2 shown below.

#### TCR CHARACTERISTIC

#### Standard:

100Ω & higher values: **0±5 ppm/°C.**For values below 100Ω: **0±15ppm/°C.** 

#### Special:

100Ω & higher: 0±1 ppm/°C. matching to 0±.5 ppm/°C.

Please specify temperature span of operation. The TCR is calculated between +25°C, & +100°C.

#### **POWER VS. AMBIENT TEMPERATURE**

All Ultra Precision Resistors are designed for full load based upon ±1% resistance tolerance providing the ambient temperature (+) plus the rise in temperature due to self-heating, does not exceed +125°C. Derated to zero power @ +145°C., See figure #1 shown below.

#### STABILITY

To ±.001%/yr. @ +25°C, with no Load.

#### REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ±3 microvolts/°C, emitted.

#### INDUCTANCE

Standard parts in this series are inductively wound. Non-inductive balanced reverse pi windings are available, simply add suffix letter "N" to the part # when placing your order.

#### PROTECTIVE SEAL

Features a stress free base coat as well as an epoxy casing that is resistant to solder heat & solvents.

#### MARKING

PRC stamp, part type & name,  $\Omega$  value & tolerance, physical size permitting.

#### Type HVA Derating Table\*

For ± 1% resistance tolerance apply up to 100% of rated power to +125 Degrees Celsius, derated to zero power @ +145 Degrees Celsius.

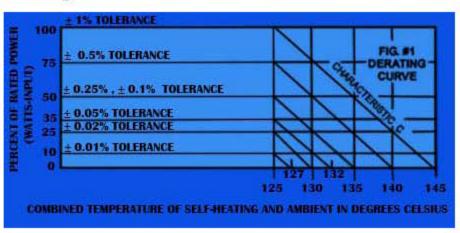
For ± ½% (0.5%) resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius, derated to zero power @ +140 Degrees Celsius.

For ± 1/4% (0.25%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius, derated to zero power @ +135 Degrees Celsius.

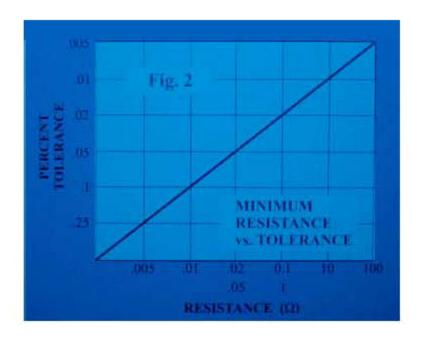
For ± 1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius, derated to zero power @ +135 Degrees Celsius.

For ± 1/20% (0.05%) resistance tolerance apply up to 35% of rated power to +125 Degrees Celsius, derated to zero power @ +132 Degrees Celsius.

#### **Detailed Images**



#### **Derating Information**



#### Minimum Resistance vs. Tolerance

#### Details

| SKU             | HVA3                            |
|-----------------|---------------------------------|
| Туре            | Rect. Axial                     |
| Length          | 12.7mm (.500")                  |
| Width           | 6.35mm (.250")                  |
| Lead Dimensions | .031" × 1" long min             |
| Height          | 6.35mm (.250")                  |
| TCR Char.       | 0±5ppm (Std.) to 0±1ppm /°C.    |
| Temperature     | -65°C, to +125°C,               |
| Resistance      | .1Ω to 350KΩ                    |
| Tolerance       | ±.01% (std.) from ±1% to ±.005% |
| Stability       | to ±.001% per year              |
| Max Watts       | .5                              |
| Max Volts       | 250                             |
| Lead Free       | Yes                             |

<sup>\*</sup> Percent of Rated Power vs. Combined Temp. of Self-Heating and Ambient (in °C.).