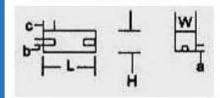


# JIN ZON ENTERPRISE CO., LTD.

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# HVS3 .5W Ultra Precision Wire Wound 2-Tab Resistor Surface Mounted Design (SMD)



### Electrical & Physical Specifications:

H-Height: 6.35mm (.250") L-Length: 12.7mm (.500") W-Width: 6.35mm (.250")

a=.100" b=.112" c=.100" d=.425" Tab dimensions:

Resistance Range: .1Ω to 350KΩ

Max Watts @ 1% Tol: .5 Max Volts @ 1% Tol: 250



PRC

HV83

1cm

# **HVS 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.



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.

#### TAPE & REEL

Have your parts delivered to you already taped & reeled by specifying Tape & Reel when placing your order. For detailed information on all the individual specifications for the tape & reel delivery option, click the Tape & Reel Chart



# Type HVS Derating Table\*

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

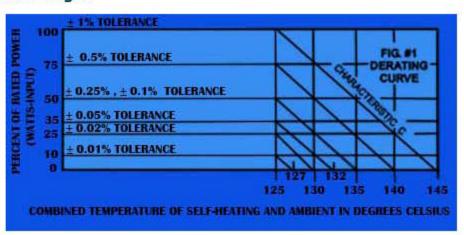
For ± ½% (0.5%) resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

For ± 44% (0.25%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

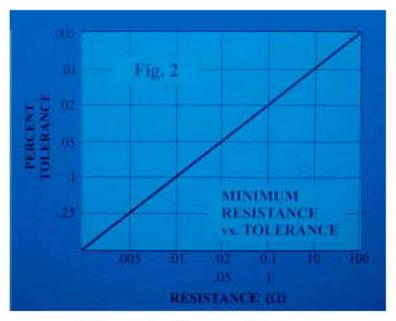
For ± 1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125 Degrees. Celsius. derated to zero @ +135 Degrees Celsius.

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

# **Detailed Images**



# **Derating Information**



# Minimum Resistance vs. Tolerance

# Details

SKU	HVS3
Type	SMD (2-Tab)
Length	12.7mm (.500")
Width	6.35mm (.250")
Tab Dimensions	a=.100" b=.112" c=.100" d=.425"
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.).