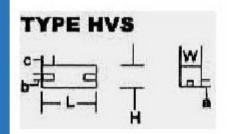


# JIN ZON ENTERPRISE CO., LTD.

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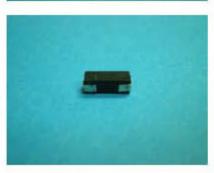
# HVS1 .2W Ultra Precision Wire Wound 2-Tab Resistor Surface Mounted Design (SMD)



# PAD LAYOUT







# **Electrical & Physical Specifications:**

H-Height: 3.30mm (.130")
L-Length: 9.14mm (.360")
W-Width: 3.18mm (.125")

**Tab dimensions:** a=.075"; b=.075"; c=.100"; d=.260"

Resistance Range: .1Ω to 75KΩ

Max Watts @ 1% Tol: .2

Max Volts @ 1% Tol: 100

# **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  $\pm 25^{\circ}$ C. &  $\pm 100^{\circ}$ 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.

## 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  $\pm$  1% resistance tolerance apply up to 100% of rated power to  $\pm$ 125 Degrees Celsius. derated to zero @  $\pm$ 145 Degrees Celsius.

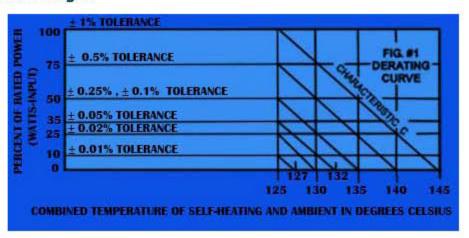
For ± ½% (0.5%) resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

For ± ¼% (0.25%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

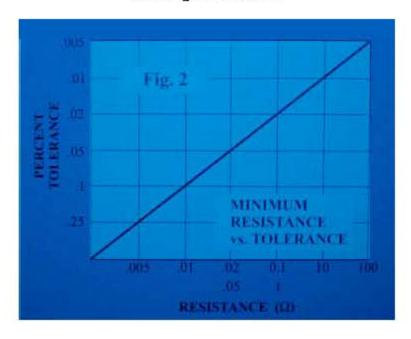
For ± 1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

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	HVS1
Type	SMD (2-Tab)
Length	9.14mm (.360")
Width	3.18mm (.125")
Tab Dimensions	a= .075" b= .075" c= .100" d: .260"
Height	3,30mm (,130")
TCR Char.	0±5ppm (Std.) to 0±1ppm /°C.
Temperature	-65°C, to +125°C,
Resistance	.1Ω to 75KΩ
Tolerance	±.01% (std.) from ±1% to ±.005%
Stability	to ±.001% per year
Max Watts	.2
Max Volts	100
Lead Free	Yes

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