

JIN ZON ENTERPRISE CO., LTD.

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HR5024N 2W Wire Wound Axial Lead Ultra Precision Resistor

Electrical & Physical Specifications:

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A-Langth: 38.1 mm (1.500")

B-Diameter: 12.7 mm (.500")

Lead Dimensions: .032" D X 1.500" L

Max Watts @ 1% Tol: 2

Max Volts @ 1% Tol: 900

Temperature Range: -65°C, to +125°C, **Resistance Range (\Omega):** .1 to 7.5M Ω (MEG)

HR Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value or decimal part of an Ohm with tolerances to $\pm .005\%$. 10Ω 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

Non-inductive balanced reverse pi windings are standard for the HR series with the exception of the HR103.

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, Ω value & tolerance, physical size permitting.

Type HR Derating Table*

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

For ±1/2% resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

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



TYPE HR

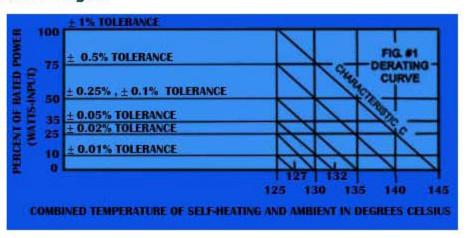




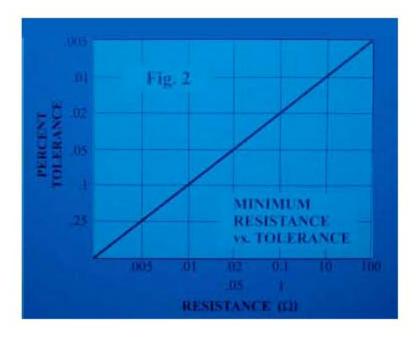
For ±0.1% resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius, derated to zero @ +135 Degrees Celsius.

For ±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

HR5024N SKU Axial Type Length 38.1mm (1.500") .032" dia. X 1.500" long 12.7mm (.500") Lead Dimensions Diameter TCR Char. 0±5ppm (Std.) ... to 0±1ppm/°C. Temperature -65°C. to +125°C. Resistance 1Ω to $7.5 M\Omega$ ±.01% (std.) Ranging from ±1% to ±.005% Tolerance Stability to ±.001% per year Max Watts Max Volts 900 Lead Free Yes

^{*} Percent of Rated Power vs. Combined Temp. of Self-Heating and Ambient (in °C.).