

JIN ZON ENTERPRISE CO., LTD.

TEL:886-2-2711-1093~5 FAX:886-2-2731-0902 ,2776-4624 地址:台北市長安東路二段171號4樓之3 Email:jinzon@ms2.hinet.net

HR3114N .5W Wire Wound Axial Lead Ultra Precision Resistor



Electrical & Physical Specifications:

A-Langth: 20.62mm (.812")

B-Diameter: 7.92mm (.312")

Lead Dimensions: .032" D X 1.500" L

Max Watts @ 1% Tol: .5

Max Volts @ 1% Tol: 300

Temperature Range: -65°C, to +125°C, Resistance Range (Ω): .1 to 1.5M 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.



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.

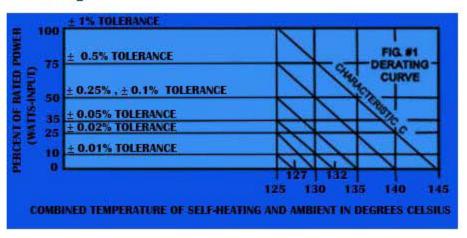
For ±4% resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

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

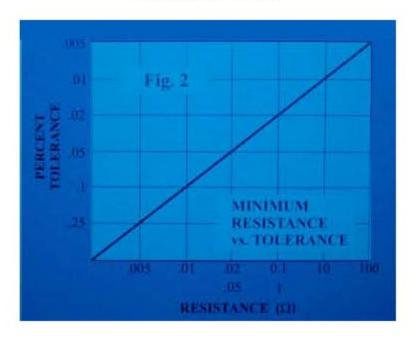
For ±0.1% resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

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

SKU HR3114N Type Axial Length 20.62mm (.812") Lead Dimensions .032" dia. X 1.5" long Diameter 7.92mm (.312") TCR Char. 0±5ppm (Std.) to 0±1ppm /°C. -65°C. to +125°C. Temperature Resistance .1 Ω to 1.5M Ω Tolerance ±.01% (std.) Ranging from ±1% to ±.005% Stability to ±.001% per year Max Watts .5 Max Volts 300 Lead Free Yes

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