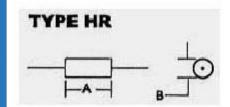


JIN ZON ENTERPRISE CO., LTD.

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HR175N .2W Wire Wound Axial Lead Ultra Precision Resistor



Electrical & Physical Specifications:

A-Length: 7.92mm (.312")

B-Diameter: 3.96mm (.156")

Lead Dimensions: .020" D X 1.500" L

Max Watts @ 1% Tol: .2

Max Volts @ 1% Tol: 100

Temperature Range: -65°C, to +125°C,

Resistance Range (Ω): .1 to 100K 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.



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.

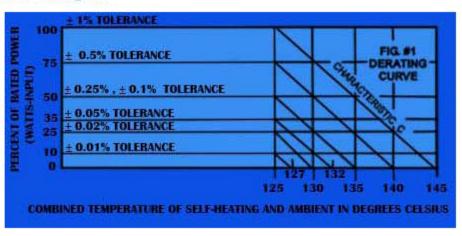
For ±4% resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

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

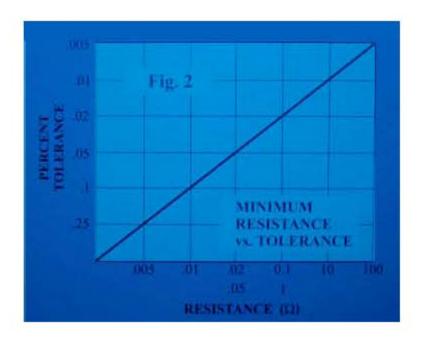
to zero @ +135 Degrees Celsius.

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 HR175N Type Axial 7.92mm (.312") Length Lead Dimensions .020" dia. X 1.500" long 3.96mm (.156") 0±5ppm (Std.) to 0±1ppm /°C. Diameter TCR Char. -65°C. to +125°C. Temperature Resistance .1 Ω to 100K Ω Tolerance ±.01% (std.) Ranging from ±1% to ±.005% Stability to ±.001% per year Max Watts .2 Max Volts 100 Lead Free Yes

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