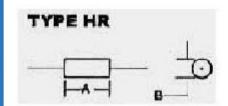


JIN ZON ENTERPRISE CO., LTD.

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HR258N .33W Wire Wound Axial Lead Ultra Precision Resistor



Electrical & Physical Specifications:

A-Length: 12.7mm (.500")

B-Diameter: 6.35mm (.250")

Lead Dimensions: .032" D X 1.500" L

Max Watts @ 1% Tol: .33

Max Volts @ 1% Tol: 300

Temperature Range: -65°C, to +125°C.

Resistance Range (Ω): .1 to 500K

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.



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.

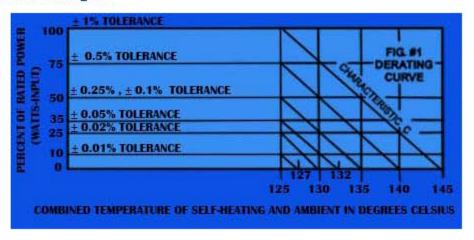
For ±¼% resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius, derated to zero @ +135 Degrees Celsius.

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

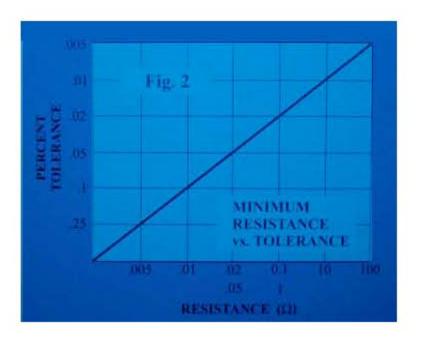
to zero @ +135 Degrees Celsius.

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 HR258N Type Axial 12.7mm (,500") Length Lead Dimensions .032" dia. X 1.500" long 6.35mm (.250") Diameter TCR Char. 0±5ppm (Std.) to 0±1ppm /°C. Temperature -65°C. to +125°C. Resistance .1Ω to 500KΩ Tolerance ±.01% (std.) Ranging from ±1% to ±.005% Stability to ±.001% per year Max Watts .33 Max Volts 300 Lead Free Yes

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