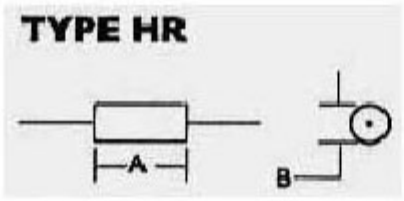
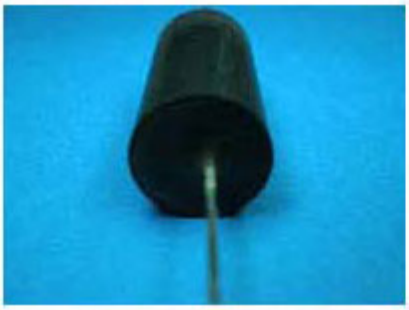
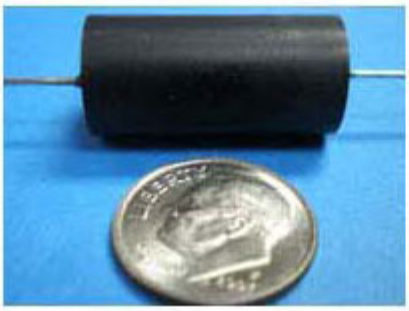
JIN ZON ENTERPRISE CO., LTD.

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

HR5016N 1.5W Wire Wound Axial Lead Ultra Precision Resistor







Electrical & Physical Specifications:

A-Length:	25.40 mm (1.000")
B-Diameter:	12.7 mm (.500")
Lead Dimensions:	.032" D X 1.500" L
Max Watts @ 1% Tol:	1.5
Max Volts @ 1% Tol:	600
Temperature Range:	-65°C. to +125°C.
Resistance Range (Ω):	.1 to 5MΩ (MEG)

HR Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value or decimal part of an Ohm with tolerances to ±.005%. 10Ω minimum resistance for ±.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 ±½% 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.

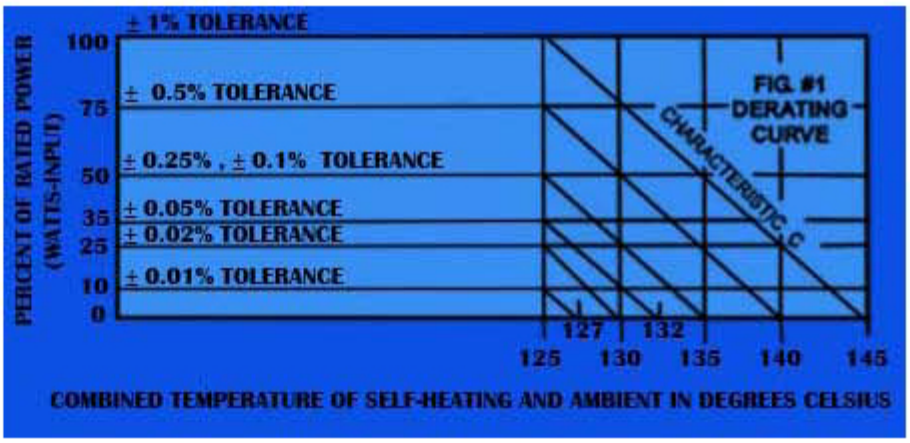
For ±0.1% resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated

to zero @ +135 Degrees Celsius.

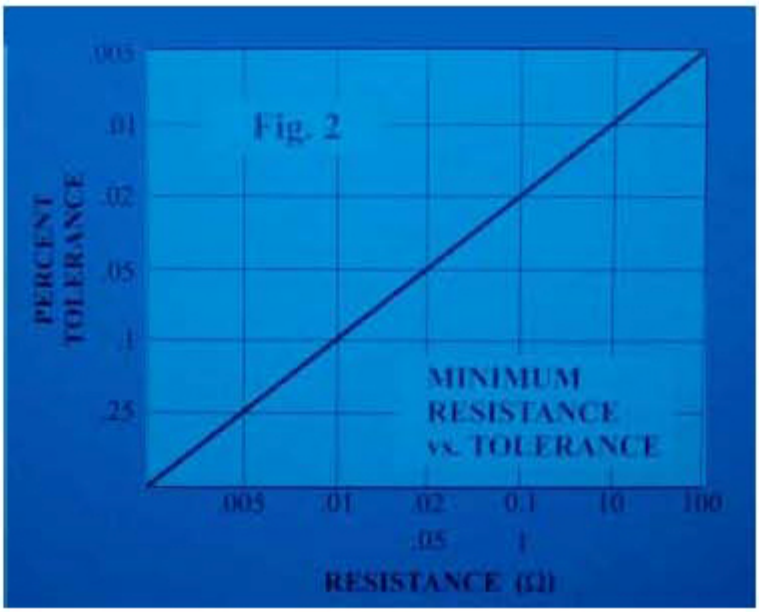
For ±0.05% resistance tolerance apply up to 35% of rated power to +125 Degrees Celsius. derated to zero @ +132 Degrees Celsius.

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

Detailed Images



Derating Information



Minimum Resistance vs. Tolerance

Details

SKU	HR5016N
Type	Axial
Length	25.40mm (1.000")
Lead Dimensions	.032" dia. X 1.500" long
Diameter	12.7mm (.500")
TCR Char.	0±5ppm (Std.) to 0±1ppm /°C.
Temperature	-65°C. to +125°C.
Resistance	.1Ω to 5MΩ
Tolerance	±.01% (std.) Ranging from ±1% to ±.005%
Stability	to ±.001% per year
Max Watts	1.5
Max Volts	600
Lead Free	Yes