

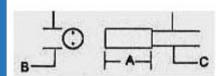
JIN ZON ENTERPRISE CO., LTD.

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RX255N .25W Ultra Precision Wire Wound Printed Circuit Resistor

Electrical & Physical Specifications:

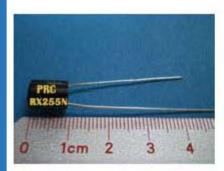
C-Lead Dimensions: .025" dia. x 1.0" long



A-Langth: 7.92mm (.312")

B-Diameter: 6.35mm (.250")

Lead Spacing: .200"



RX 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 $\pm 25^{\circ}\text{C}$. & $\pm 100^{\circ}\text{C}$.

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

Standard parts in this series are inductively wound. Non-inductive balanced reverse pi windings are available, simply add suffix letter "N" to the part # when placing your order.

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 RX 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% (0.5%) resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

For ± 4% (0.25%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius.

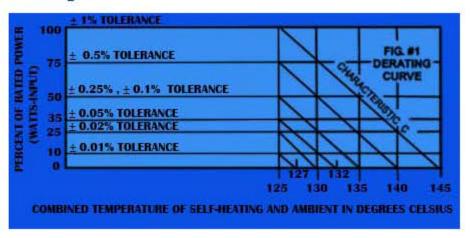


derated to zero @ +135 Degrees Celsius.

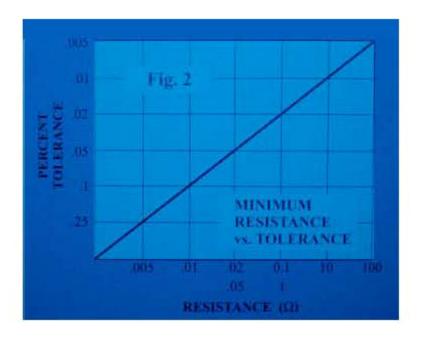
For ± 1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

For ± 1/20% (0.05%) resistance tolerance apply up to 35% of rated power to +125 Degrees Celsius. derated to zero @ +132 Degrees Celsius.

Detailed Images



Derating Curve



Minimum Resistance vs. Tolerance

Details

SKU	RX255N
Туре	Printed Circuit
Length	7.92mm (.312")
Lead Dimensions	.025" dia. x 1.0" long; spacing: 0.200"
Diameter	6.35mm (.250")
TCR Char.	0±5ppm (Std.) to 0±1ppm /°C.
Temperature	-65°C, to +125°C,
Resistance	from .1 Ω to 150K Ω
Tolerance	±.01% (std.) from ±1% to ±.005%
Stability	to ±.001% per year @25°C
Max Watts	.25
Max Volts	100
Lead Free	Yes

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