JIN ZON ENTERPRISE CO., LTD.

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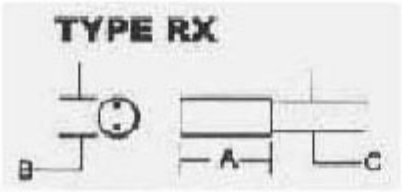
RX378N .5W Ultra Precision Wire Wound Printed Circuit Resistor



Electrical & Physical Specifications:

A-Length:	12.7mm (.500")
B-Diameter:	9.53mm (.375")
C-Lead Dimensions:	.032" dia. x 1.0" long
Lead Spacing:	.200"

RX 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

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 ± ½% (0.5%) resistance tolerance apply up to 75% of rated power to +125 Degrees Celsius. derated to zero @ +140 Degrees Celsius.

For ± ¼% (0.25%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

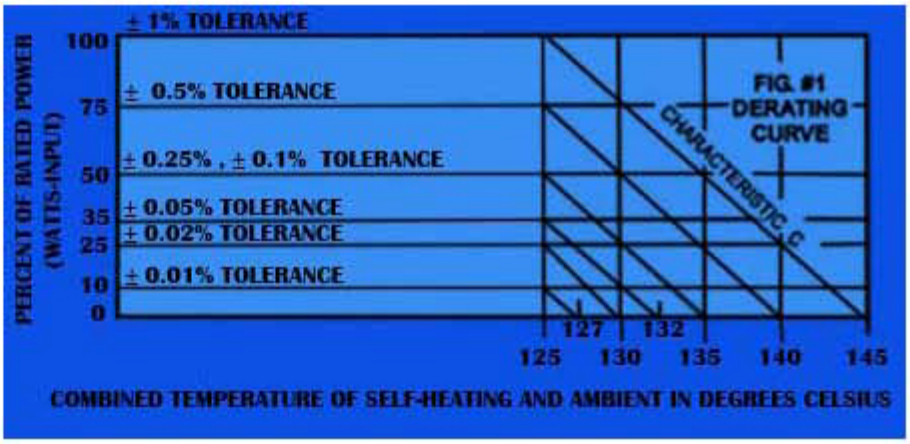
For ± 1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125 Degrees Celsius. derated to zero @ +135 Degrees Celsius.

For ± 1/20% (0.05%) resistance tolerance apply up to 35% of rated power to +125 Degrees

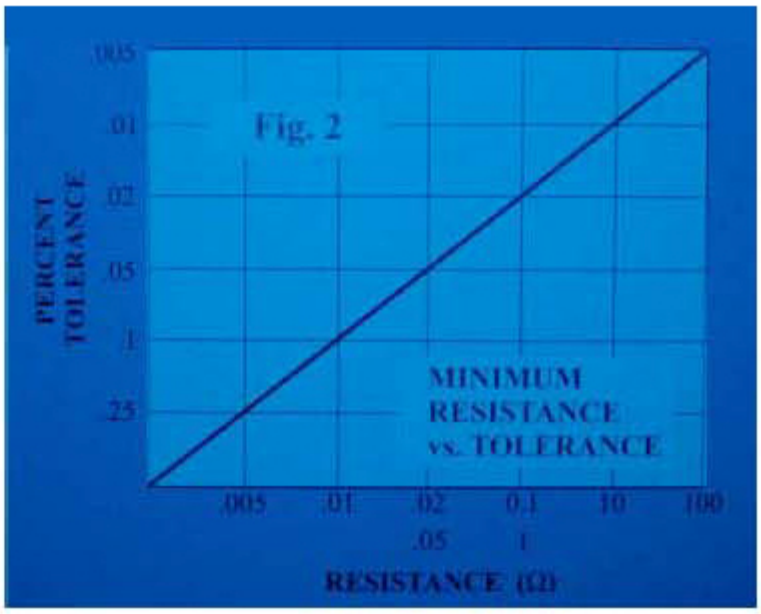
Celsius. derated to zero @ +132 Degrees Celsius.

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

Detailed Images



Derating Curve



Minimum Resistance vs. Tolerance

Details

SKU	RX378N
Type	Printed Circuit
Length	12.7mm (.500")
Lead Dimensions	.032" dia. x 1.0" long; spacing: 0.200"
Diameter	9.53mm (.375")
TCR Char.	0±5ppm (Std.) ... to 0±1ppm /°C.
Temperature	-65°C. to +125°C.
Resistance	from .1Ω to 500KΩ
Tolerance	±.01% (std.) ... from ±1% to ±.005%
Stability	to ±.001% per year @25°C
Max Watts	.5
Max Volts	200