

TX030 .03W Wire Wound High Precision Axial Resistor

TX030



Electrical & Physical Specifications:

A-Length:	5.59mm (.220") ±1.57mm
B-Diameter:	1.27mm (.050") ±.062"
Lead dimensions:	.020" dia. X 1.5" long
Max Watts @ 1% Tol:	.03
Max Volts @ 1% Tol:	25
Temperature Range:	-55°C. to +85°C
Resistance (Ω):	1.0 Min. to 5K Max.

TX Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value or decimal part of an Ohm from .01Ω to 6MΩ (MegaOhm or MEG) with tolerances to ±.05%. For closer resistance tolerances refer to the Ultra Precision HR Series

TCR CHARACTERISTIC

Standard: 0±10ppm/°C. for 100Ω & higher. 0±15ppm/°C. for values below 100Ω, calculated between +25°C. & +100°C. *Please specify temp. span of operation. For lower specific TCRs to ±1ppm/°C. refer to the Ultra Precision HR Series For higher TCRs to ±6000ppm/°C. refer to the Compensator Series

POWER VS. AMBIENT TEMPERATURE

All TX resistors are designed for full load based upon ±1% resistance tolerance providing the ambient temp (+) the rise in temp. due to self-heating, does not exceed +85°C. Refer to derating table below.

STABILITY VS. TIME

To ±.005%/yr. @ 25°C. with no load.

REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ±3 microvolts/°C. emitted.

PROTECTIVE SEAL

Commercial plastic conforming coating.

MARKING (Identification)

PRC stamp, part type & name, Ω value & tolerance, physical size permitting.

INDUCTANCE

Std. TX resistors are inductively wound. Non-inductive windings are available, add suffix letter "N" in the part name.

***Please specify the ambient temperature span of your operation when placing your order.**

Typa TX Derating Table:*

For ±1% resistance tolerance apply up to 100% of rated power to +85 Degrees Celsius.

For ±½% (0.5%) resistance tolerance apply up to 75% of rated power to +85 Degrees Celsius.

For ±¼% (0.25%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.

For ±1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.

For ±1/20% (0.05%) resistance tolerance apply up to 35% of rated power to +85 Degrees Celsius.

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

Details

SKU	TX030
Type	Axial-Lead
Length	5.59mm (.220")
Lead Dimensions	.020" dia. X 1.5" long
Diameter	1.27mm (.050")
TCR Char.	to $0 \pm 10 \text{ppm}/^\circ\text{C}$. (between +25°C. and +100°C.)
Temperature	-55°C. to +85°C
Resistance	1Ω to 5KΩ
Tolerance	to $\pm .05\%$
Stability	to $\pm .005\%/yr.$ at +25°C
Max Watts	.03
Max Volts	25
Lead Free	Yes