



TX073 .07W Wire Wound High Precision Axial Resistor

TX073



Electrical & Physical Specifications:

A-Length:	8.43mm (.332")
B-Diameter:	2.29mm (.090")
Lead Dimensions:	.020" dia. X 1.500" long
Max Watts @ 1% Tol:	.07
Max Volts @ 1% Tol:	65
Temperature Range:	-55°C. to +85°C
Resistance (Ω):	.1 Min. to 65K Max.

TX Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value from .01 Ω to 6M Ω (MegaOhm or MEG) with tolerances to \pm .05%. For closer resistance tolerances refer to the Ultra Precision HR Series

TCR CHARACTERISTIC

Standard: 0 ± 10 ppm/ $^{\circ}$ C. for 100 Ω & higher.

Standard: 0 ± 15 ppm/ $^{\circ}$ C. for values below 100 Ω

*TCR is calculated between +25 $^{\circ}$ C. & +100 $^{\circ}$ C.

-For lower specific TCRs to ± 1 ppm/ $^{\circ}$ C., please refer to the Ultra Precision HR Series to satisfy your specifications.

-For higher TCRs to ± 6000 ppm/ $^{\circ}$ C., please refer to the Compensator Series to satisfy your specifications.

POWER VS. AMBIENT TEMPERATURE

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

STABILITY VS. TIME

To \pm .005%/yr. @ 25 $^{\circ}$ C. with no load.

REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ± 3 microvolts/ $^{\circ}$ 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.**

Type TX Derating Table:*

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

For $\pm \frac{1}{2}\%$ (0.5%) resistance tolerance apply up to 75% of rated power to +85 Degrees Celsius.

For $\pm \frac{1}{4}\%$ (0.25%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.

For $\pm 1/10\%$ (0.1%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.
For $\pm 1/20\%$ (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	TX073
Type	Axial-Lead
Length	8.43mm (.332")
Lead Dimensions	.02" dia. X 1.50" long
Diameter	2.29mm (.090")
TCR Char. Temperature	to $0 \pm 10 \text{ppm}/^\circ\text{C}$. (between +25°C. and +100°C)
Resistance	-55°C. to +85°C.
Tolerance	.1Ω to 65KΩ
Stability	to $\pm .05\%$
Max Watts	to $\pm .005\%/yr.$ at +25°C (No Load)
Max Volts	.07
Lead Free	65
	Yes