

TX186 .5W Wire Wound High Precision Axial Resistor



TX186

Electrical & Physical Specifications:

A-Length:	13.21mm (.520")
B-Diameter:	5.26mm (.207")
Lead Dimensions:	.028" dia. X 1.500" long
Max Watts @ 1% Tol:	.5
Max Volts @ 1% Tol.:	500
Temperature Range:	-55°C. to +85°C
Resistance (Ω):	.01 Min. to 480K 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 $\pm 0.05\%$. For closer resistance tolerances refer to the Ultra Precision HR Series

TCR CHARACTERISTIC

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

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

*TCR is calculated between +25°C. & +100°C.

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

-For higher TCRs to $\pm 6000 \text{ppm}/^\circ\text{C}$., 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°C. Refer to derating table below.

STABILITY VS. TIME

To $\pm 0.005\%/ \text{yr}$. @ 25°C with no load.

REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ± 3 microvolts/ $^\circ\text{C}$. 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 $\pm 1/2\%$ (0.5%) resistance tolerance apply up to 75% of rated power to +85 Degrees Celsius.
For $\pm 1/4\%$ (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	TX186
Type	Axial-Lead
Length	13.21mm (.520")
Lead Dimensions	.028" dia. X 1.500" long
Diameter	5.26mm (.207")
TCR Char.	to $0 \pm 10 \text{ppm}/^\circ\text{C}$. (between +25°C. and +100°C.)
Temperature	-55°C. to +85°C
Resistance	.01 Ω to 480K Ω
Tolerance	to $\pm .05\%$
Stability	to $\pm .005\%/yr.$ at +25°C
Max Watts	.5
Max Volts	500
Lead Free	Yes