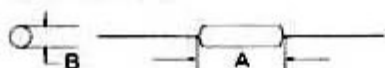


TX093 .1W Wire Wound High Precision Axial Resistor

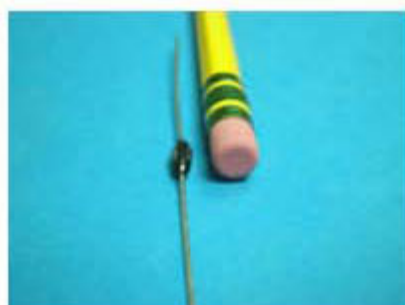
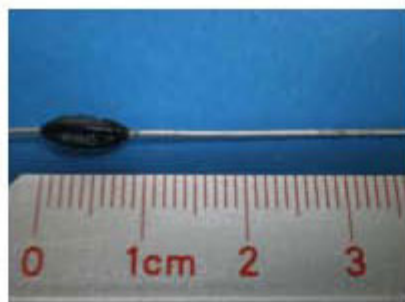


TX093

Electrical & Physical Specifications:

tr>

| | |
|--|--------------------------|
| A-Length: | 8.43mm (.332") |
| B-Diameter: | 2.92mm (.115") |
| Lead Dimensions: | .025" dia. X 1.500" long |
| Max Watts @ 1% Tol: | .1 |
| Max Volts @ 1% Tol: | 85 |
| Temperature Range: | -55°C. to +85°C |
| Resistance (Ω): | .1 Min. to 75K 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 $\pm 0.005\%$ /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 $\pm 0.5\%$ (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 | TX093 |
| Type | Axial-Lead |
| Length | 8.43mm (.332") |
| Lead Dimensions | .025" dia. X 1.500" long |
| Diameter | 2.92mm (.115") |
| TCR Char. Temperature | to $0 \pm 10 \text{ppm}/^\circ\text{C}$. (between +25°C. and +100°C -55°C. to +85°C) |
| Resistance | .1Ω to 75KΩ |
| Tolerance | to $\pm .05\%$ |
| Stability | to $\pm .005\%/yr.$ at +25°C |
| Max Watts | .1 |
| Max Volts | 85 |
| Lead Free | Yes |