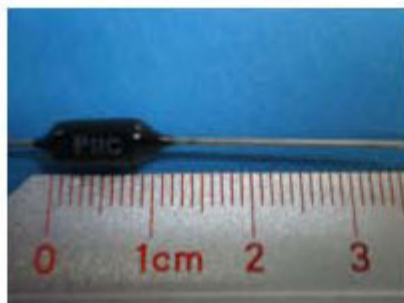


TX155 .25W Wire Wound High Precision Axial Resistor



TX155



Electrical & Physical Specifications:

| | |
|-----------------------------|--------------------------|
| A-Length: | 11.61mm (.457") |
| B-Diameter: | 4.47mm (.176") |
| Lead Dimensions: | .028" dia. X 1.500" long |
| Max Watts @ 1% Tol: | .25 |
| Max Volts @ 1% Tol.: | 250 |
| Temperature Range: | -55°C. to +85°C |
| Resistance (Ω): | .1 Min. to 300K Max. |

TX Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value 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.**

Standard: **0±15ppm/°C.** for values **below 100Ω**

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

-**For lower specific TCRs to ±1ppm/°C.,** please refer to the [Ultra Precision HR Series](#) to satisfy your specifications.

-**For higher TCRs to ±6000ppm/°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 ±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.**

Type 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 $\pm 1/4\%$ (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 | TX155 |
| Type | Axial-Lead |
| Length | 11.61mm (.457") |
| Lead Dimensions | .028" dia. X 1.500" long |
| Diameter | 4.47mm (.176") |
| 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 300KΩ |
| Stability | to $\pm .05\%$ |
| Max Watts | to $\pm .005\%/yr.$ at +25°C |
| Max Volts | .25 |
| Lead Free | 250 |
| | Yes |