

# JIN ZON ENTERPRISE CO., LTD.

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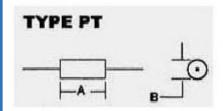
# PT073.05W Custom (+) TCR Temperature Sensitive Wire Wound Axial Compensator

**PT073** 

#### Electrical & Physical Specifications:

**A-Length:** 8.43mm (.332") **B-Width:** 2.54mm (.100")

Lead dimensions: .02" dia. X 1.5" long (min.)



# Compensator Attributes:

#### LINEAR COMPENSATION

PRC's type PT/ST (+) TCR Characteristics +3500 PPM/°C. linear tracking temperature sensitive resistors help you develop the desired compensation for true RMS measurements...and can offset errors in dB output circuits.

# TOLERANCE FOR (+) 3500 PPM/°C.

Less than ±100 PPM/°C from +25°C. to +100°C. If you are looking for a systems offset of +3350 PPM/°C to +3450 PPM/°C. try a few engineering samples of our off-the-shelf compensators. We are confident you can achieve dramatic results. The element wire used on our type PT/ST, as a rule, is very close to +3350 PPM/°C. @ 25°C. & lower than +3450 PPM/°C. @ 100°C. See figure #4 below.

#### OFF THE SHELF FOR IMMEDIATE DELIVERY

Thru-hole & SMD designs are available for evaluation & testing. We have our PT series for 2 terminal type or our AT35 for 4 terminal type. If you have plans for SMD/SMT, our type ST35 is a drop in replacement for the thru-hole part w/ interchangeable specs. All our standard  $1000\Omega \pm 1\% + 3500$  PPM Compensators are in stock!



We can customize any of our compensators to fit your specs in any Ohmic value from  $1\Omega$  to 50K $\Omega$  We have pure metals, alloys, & composite windings available. All of which are extremely linear, reasonably priced & delivered quickly.



Constant temperature oil bath computer tracking charts are available to match temp, span & behavior specs exactly.

# COMPENSATORS VS. POWER

PRC's positive (+) TCR resistors are used to offset negative (-) ambient temperature changes or counter self-generating shifts in resistance w/ an excitation of power to .25W @ +125°C. Derated to OW @ +150°C.



Standard: ±,05%/year @ +25°C.

Special: Less than ±.01%/year @ +25°C.

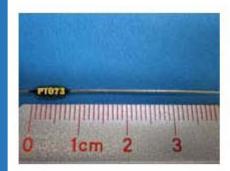
MARKING

PRC stamp, part type, resistance value, tolerance & TCR characteristics, physical size permitting.

PROTECTIVE SEAL

Standard: Conformal silicone or epoxy case.

Spacial: Thermal conductive insulating coatings or uncoated.







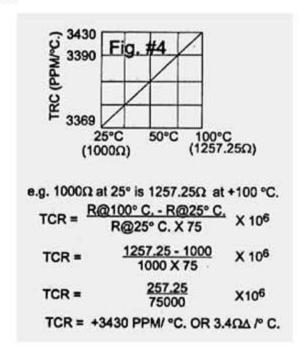
#### TCR CHARACTERISTICS AVAILABLE

# Temperature Coefficient of Resistance (TCR\*)

+80 ppm/°C +3930 ppm/°C +140 ppm/°C +4300 ppm/°C +400 ppm/°C +4500 ppm/°C +1400 ppm/°C +5000 ppm/°C +3500 ppm/°C +6000 ppm/°C

\*TCR based upon avg. PPM change in res./°C. from +25°C. to +100°C.

# **Detailed Images**



# Res/Temp Curve & TCR Equation for nominal 1K ±1% +3500 PPM Compensator

### Details

SKU PT073 Type Axial

 Length
 8.43mm (.332")

 Lead Dimensions
 .02" X 1.5"

 Diameter
 2.54mm (.100")

TCR Char. from +80 PPM/°C to +6000 PPM/°C

 $\begin{array}{lll} \mbox{Power Rating} & \mbox{0-.05W} \\ \mbox{Resistance} & \mbox{1}\Omega \mbox{ to 2500}\Omega \\ \mbox{Tolerance} & \mbox{to $\pm.05\%$} \end{array}$ 

Stability to less than ±.01% per year at 25°C

Max Watts .05 Lead Free Yes