JIN ZON ENTERPRISE CO., LTD.

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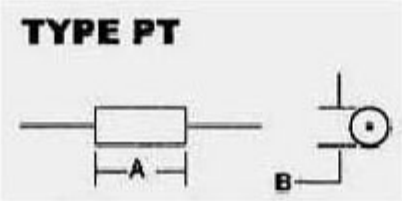
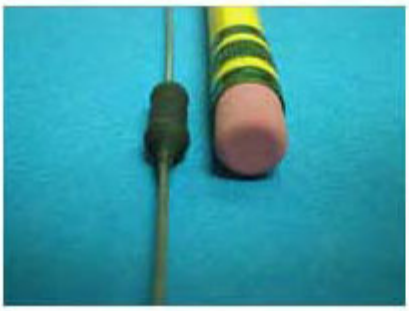
PT146 .25W Custom (+) TCR Temperature Sensitive Wire Wound Axial Compensator

PT146

Electrical & Physical Specifications:

A-Length:	13.21mm (.520")
B-Diameter:	4.75mm (.187")
Lead dimensions:	.028" 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 desirec 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 w ire 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 1000Ω ±1% +3500 PPM Compensators are in stock!

CUSTOM COMPENSATORS

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

TRACKING CHART

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 0W @ +150°C.

STABILITY

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.

Special: Thermal conductive insulating coatings or uncoated.

TCR CHARACTERISTICS AVAILABLE

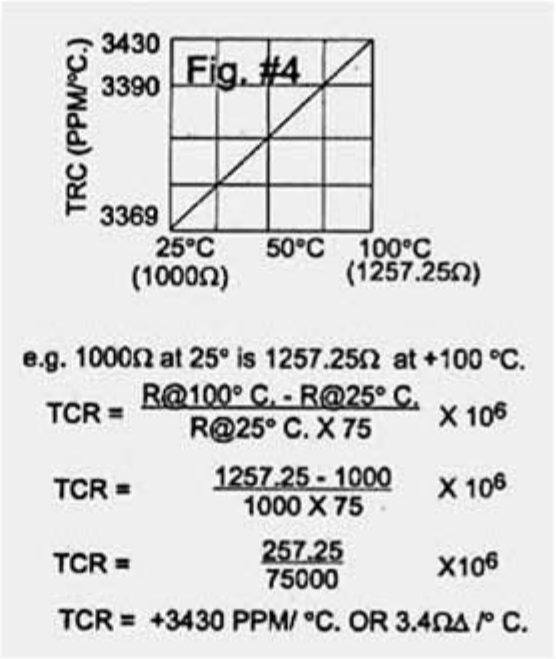
Temperature Coefficient of Resistance (TCR*)

+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	PT146
Type	Axial
Length	13.21mm (.520")
Lead Dimensions	.028" X 1.5"
Diameter	4.75mm (.187")
TCR Char.	from +80 PPM/°C to +6000 PPM/°C
Power Rating	0-.25W
Resistance	1Ω to 20KΩ
Tolerance	to ±.05%
Stability	to less than ±.01% per year at 25°C
Max Watts	.25
Lead Free	Yes