

SP156 Wire Wound BALCO Element Sensor

TYPE SP



SP156



Electrical & Physical Specifications:

A-Length:	13.21mm (.520")
B-Diameter:	4.75mm (.187")
Lead Dimensions:	.028" dia. X 1.500" long (max.)
Max Watts:	.25
Resistance (Ω):	1000 Ω \pm 1% @ 70°F (Std.)

Balco Series Engineering Attributes:

RESISTANCE & TOLERANCE

Standard Input: 1000 Ω \pm 1% @ 70°F. & .1% Tolerance

Special: 1 Ω to 5K Ω

CUSTOM TOLERANCES

\pm 1% (Std) Also available: \pm 1%, \pm 5%, \pm 25%, \pm 05%.

*Tolerances listed are attainable only with certain selected temperatures.

TCR CHARACTERISTIC

+4300ppm/ $^{\circ}$ C. \pm 50ppm/ $^{\circ}$ C

POWER RATING

The PT156 is rated for a maximum of .25W

CONSTRUCTION

Balco Wire

70% Nickel (Ni), 30% Iron (Fe)

Substrate

Phenolic/epoxy filled

Terminals

Solderable hot tinned pure copper leads are standard at PRC.

Protective Seal

Commercial Plastic (TX) Coating or Epoxy Casing.

RESISTANCE/TEMPERATURE CHARACTERISTIC

The Balco 1000 Ω element changes approx. 2.3 Ω / $^{\circ}$ F. from -40°F to +212°F.

STABILITY VS. TIME

\pm 0.02%/yr. @ 25 $^{\circ}$ C. (77 $^{\circ}$ F.) All Balco elements are artificially aged to assure close interchangeability in calibration.

MARKING

PRC symbol, type, value, tolerance & TCR, physical size permitting. Custom markings are also available upon request.

DELIVERY

Our Standard 1000 Ω .1% Tol. part is usually in stock and ready to ship within a couple of days.

BALCO RESISTANCE/TEMPERATURE TABLE

Engineering samples & individual element tracking charts available at no charge upon request. The Balco tracking chart & TCR Equations can be viewed by clicking the link below pictures.

[Balco Tracking Chart & TCR Equations](#)

Details

SKU	SP156
Type	Probe
Length	13.21mm (.520")
Diameter	4.75mm (.187")
TCR Char.	+4300ppm/°C. (± 50 ppm/°C.), (between 25°C. and +100°C.)
Power Rating	.25W Max
Temperature	-65°C. to +125°C.
Resistance	1K Ω at 21.1°C. (70°F.)
Tolerance	to $\pm .05\%$
Stability	to less than $\pm 0.02\%/yr.$ @ 25°C.
Max Watts	.25W Max
Lead Free	Yes