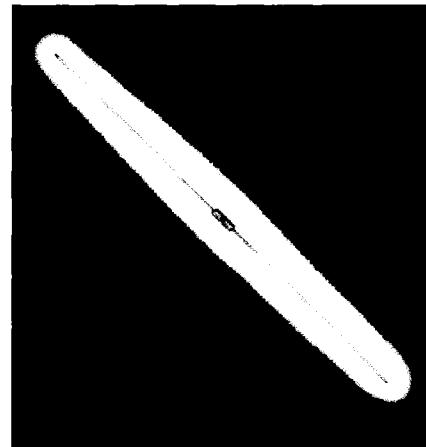


# Product Data

Components For The Control Of Energy

Developed from our standard H-Series device is a precision sensor for applications needing tracking ability over a wide temperature range. Tighter tolerance assures less error and interchangeability from sensor to sensor. H-Series Hermetically Sealed Thermistors are small, rugged, and good for use up to 400°C. Dumet leads are weldable and/or solderable.



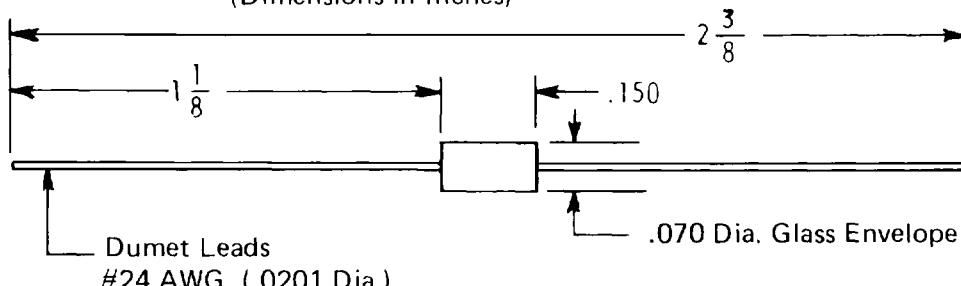
## SPECIFICATIONS

### Typical Characteristics

Catalog Number	PIH103	PIH203	PIH303	PIH403	PIH503	PIH603	PIH703	PIH803	PIH903	PIH104
Zero Power Resistance @25°C; OHMS ± 2%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K
Interchangeability °C (0-100°C) (see curve reverse side)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Resistance Ratio;	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85
*Dissipation Constant ( $\delta$ );	2	2	2	2	2	2	2	2	2	2
**Thermal Time Constant ( ) ;(sec.)	8	8	8	8	8	8	8	8	8	8
Time Constant with Stirred Oil (sec.)	1	1	1	1	1	1	1	1	1	1
Maximum Operating Temperature;°C	400	400	400	400	400	400	400	400	400	400

### OUTLINE DRAWING

(Dimensions in Inches)



\* The ratio, in a 25°C still air ambient, of the power input to raise the Thermistor temperature to 125°C and its temperature rise (125°C—25°C) above ambient.

$$\frac{(E_{Th} - E_{25})}{E_{25}} @ 125^{\circ}\text{C operating temperature}$$

125°C—25°C

\*\* Time required for a Thermistor to change 63.2% of the temperature difference between its initial and final body temperature, when subjected to a step function change in temperature under zero-power conditions.

Multiplier

