

Thermistor Bolometers TB15 Series

High Performance – Solid Backed

TB 15 Series Solid Backed Thermistor Bolometers are extremely rugged, reliable, broad band infrared detectors. Broad band spectral sensitivity from the U.V to 1,000 microns is limited in practice by the window selection. Germanium windows are standard with other window selections optional. There are two Thermistor material options available - High or Low resistivity in a range of active areas and time constants.

Applications

- Railroad Hot-Box Detection Systems
- Industrial Temperature Measurement
- Space-Borne Horizon Sensors
- Radiometers

Features

- Wide Spectral Range: 0.1 -> 1,000 μm
- Rugged Construction
- DC Operation

Typical Model Specifications

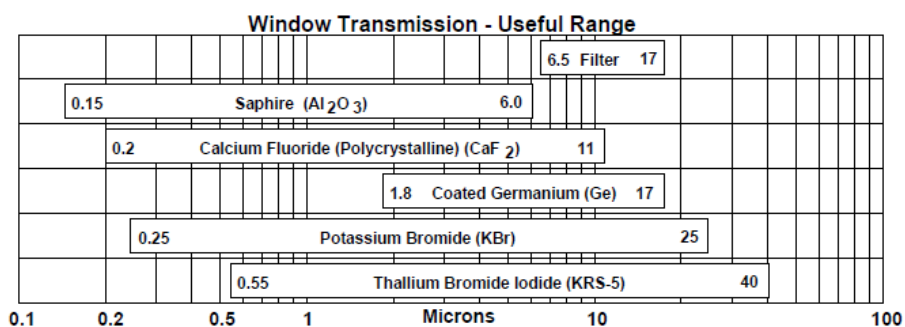
Model TB15 -	1.0 SR	1.5 SR	2.0 SR	2.5 SR
Element Dimensions (mm)	1.0 x 1.0	1.5 x 1.5	2.0 x 2.0	2.5 x 2.5
Thermistor Resistivity (Megohm/sq.)	2.5 or 0.25	2.5 or 0.25	2.5 or 0.25	2.5 or 0.25
Time Constant (ms)	1.2, 2.5 or 5	1.2, 2.5 or 5	1.2, 2.5 or 5	1.2, 2.5 or 5

Options

Element Shape – Square, Rectangular

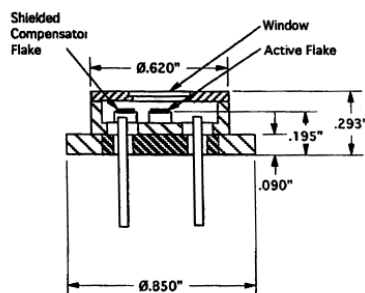
Window – See Range

Package – Flange or Pin Base

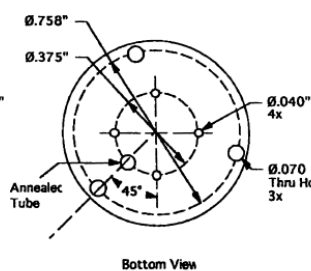


Flange-Base Package

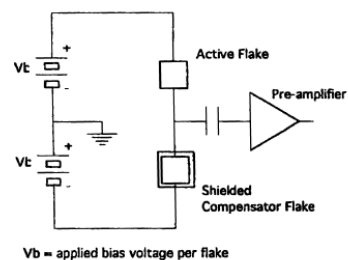
Mechanical Data



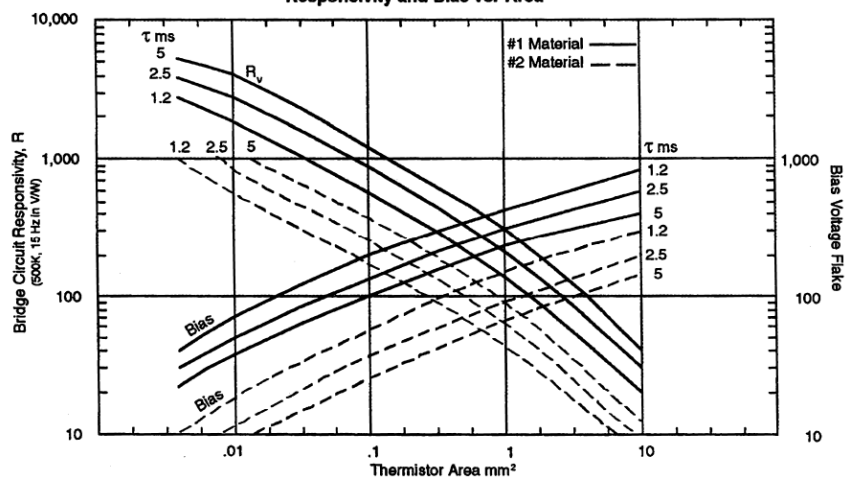
Pin-Out



Circuit Diagram



Responsivity and Bias vs. Area



Relative Responsivity vs. Frequency

