



MEAS POLYIMIDE SURFACE THERMOCOUPLE

- ♦ Fast Response
- ♦ Surface Sensing
- ♦ Noninvasive, Simple Installation
- ♦ Flat, Flexible
- ♦ Custom Dimensions
- ♦ Polyimide/FEP

The Polyimide Surface Thermocouple is a flat, flexible, rectangular sensor with a thermocouple laminated in polyimide/FEP. These sensors have the ability to measure temperature on flat, round or uneven surfaces. TE utilizes four standard thermocouple types; J, K, T and E.

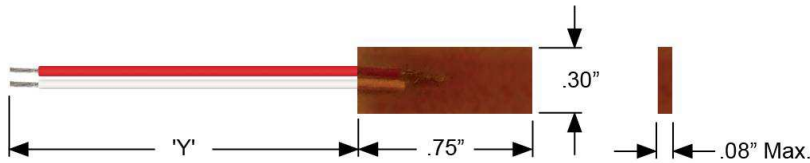
Features

- ♦ Temperature Range:
 - » -50°C to 200°C (-58°F to 392°F)
- ♦ Thermocouple Type:
 - » J, K, T, E
- ♦ Optional Adhesive Backing
- ♦ Leadwire/Cable Options

Applications

- ♦ Electric Motors
- ♦ Generators
- ♦ HVAC
- ♦ Aerospace

Dimensions



Specifications

Time Constant:

1.0 second maximum for 63.2% response to change in temperature per ASTM E644

Dielectric Strength:

1,000 Volts RMS at 60 Hz, for one minute, element to outer surfaces, with 1 mA leakage current

Application Temperature Range:

-50 to 200°C (-58 to 392°F)

Thermocouple Types:

Type J [Constantan/Iron]
Type K [Alumel/Chromel]
Type E [Constantan/Copper]
Type T [Constantan/Chromel]

Leadwires:

Single Junction: 24 AWG PTFE Insulated, Solid Conductor

Ordering Information

POLYIMIDE SURFACE THERMOCOUPLE

Model Temperature Range

423M Moderate Temperature Range: -50° to 200°C (-58° to 392°F)

Model Thermocouple Type Junction Color Code

J	J	Single	Red/White	[Constantan/Iron]
K	K	Single	Red/Yellow	[Alumel/Chromel]
T	T	Single	Red/Blue	[Constantan/Copper]
E	E	Single	Red/Purple	[Constantan/Chromel]

Model Junction Style

G Grounded Junction (Separate Ground Wire Welded with Junction)
U Ungrounded Junction

Model Limits of Error

A Standard Limits of Error
B Special Limits of Error

Model 'Y' Leadwire Length

--- Define 'Y' Length in Whole Inches. (120 = 120.0"; 036 = 36.0")

Model 'Y' Leadwire Options

N No Options, Solid PTFE Leadwires
W Leadwire Options

Model Leadwire Material

A PTFE

Model Mounting Options

1 Standard, No Adhesive Backing
2 Adhesive Backing

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