

# SURFACE MOUNTED THERMOCOUPLE WAFER ASSEMBLIES

Thermo Electric designs and manufactures temperature measurement solutions that are guaranteed to give you sensitivity, fast response and consistent accuracy with greatest sensor to sensor uniformity. Thermo Electric is committed to deliver its innovative instrumented wafer solutions on time with a world class technical service.

## PRODUCT TEMPERATURE RANGES

Low Temp -150 to 700°C  
(Silicon Based Adhesive)

High Temp -150 to 1,200°C  
(Welded Design)

## THERMOCOUPLE CALIBRATION (ACCURACY)

- **Type K** ( $\pm 1.1^{\circ}\text{C}$  or 0.4%) Range -270 to 1,372°C
- **Type N** ( $\pm 1.1^{\circ}\text{C}$  or 0.4%) Range -270 to 1,300°C
- **Type E** ( $\pm 1.0^{\circ}\text{C}$  or 0.4%) Range -270 to 1,000°C
- **Type T** ( $\pm 0.5^{\circ}\text{C}$  or 0.4%) Range -270 to 400°C
- **Type R/S** ( $\pm 1.5^{\circ}\text{C}$  or 0.25%) Range -50 to 1,768°C

## SPECIFICATIONS

### Sensor Leads

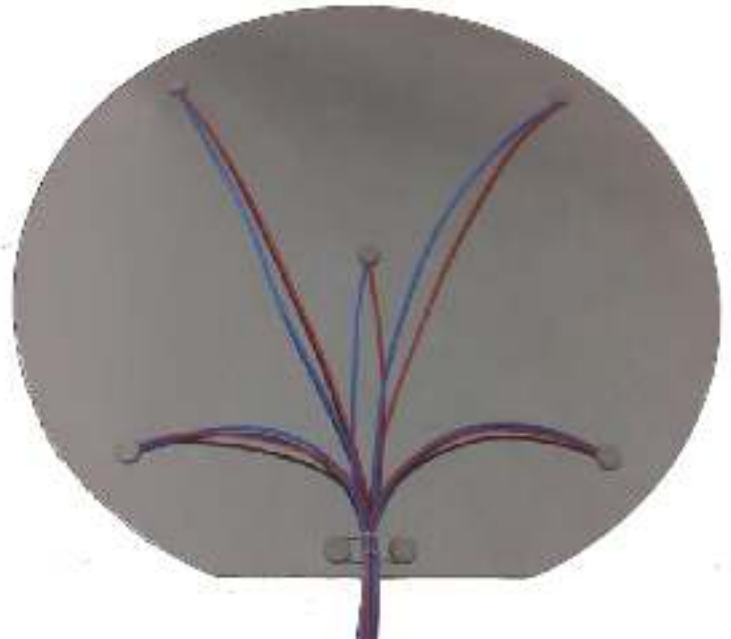
Up to 40ft. – Customization available

### Insulations available

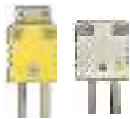
- Quartz
- Teflon
- Silica
- Ceramic
- Polyimide

### Wire Gauges

20 AWG - 40 AWG



## TERMINATIONS



Mini Plugs Standard and High Temperature Ceramic



D-Pin Subminiature Standard Connectors



Ultra-High Vacuum (UHV) Peek Connectors - Sub C & D



Spade Tang



Vacuum Contacts Pins & Sockets  
0.056" & 0.040"

Bare Wire

### Substrates

Silicon, AlTiC, Glass, Ceramic, Silicon Carbide and other customer supplied bare, coated, or patterned substrates. Other custom substrates, shapes and sizes available

### Substrate Sizes Offered

50mm, 75mm, 100mm, 125mm, 150mm, 200mm, 300mm

### Feedthrough

Polyimide flat cable with seal under O-ring, atmosphere to  $10^{-7}$  Torr capable. Length designated by customer.

