

# 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

High Temp: -150 to 1,200°C

## 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

### Substrate Capabilities

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

### Stocked Substrate Sizes

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

### Sensor Leads

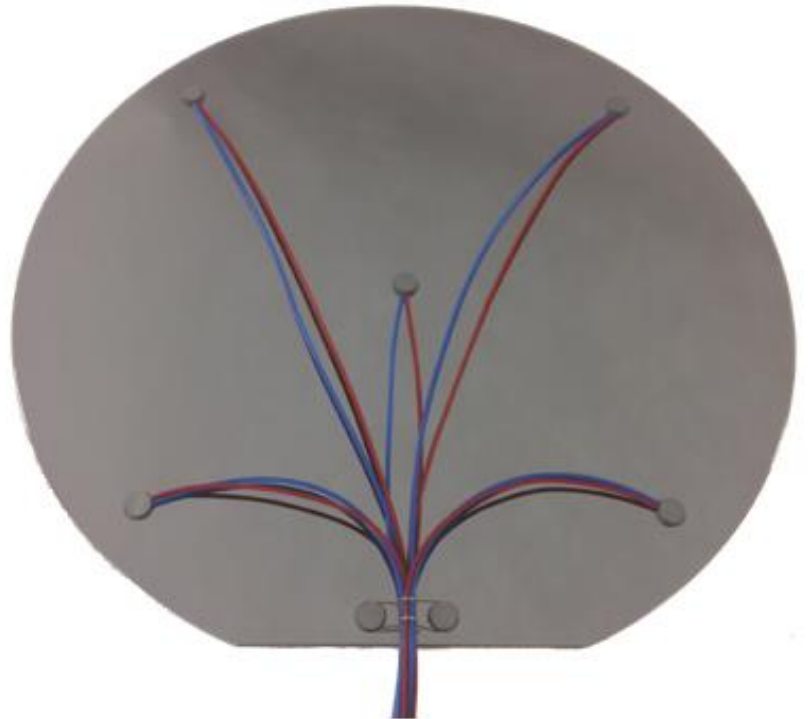
Up to 40 feet

### Insulations available

- Quartz
- Teflon
- Silica
- Ceramic
- Polyimide

### Stocked Wire Gauges

30 & 36 AWG



### Feedthrough

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



## TERMINATIONS

Mini Plugs  
Standard and Ceramic

D-Pin Subminiature  
Standard

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

Spade Lugs

Vacuum Contact  
Pins & Sockets

Bare Wire

