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** (±1.1°C or 0.4%) Range -270 to 1,372°C
- **Type N** (±1.1°C or 0.4%) Range -270 to 1,300°C
- **Type E** (±1.0°C or 0.4%) Range -270 to 1,000°C
- **Type T** (±0.5°C or 0.4%) Range -270 to 400°C
- **Type R/S** (±1.5°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, AITIC, 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.