

BONDED 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

-150 to 700°C (Silicon Based Adhesive)

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 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

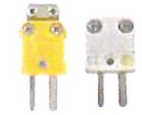
Insulations Available

- 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

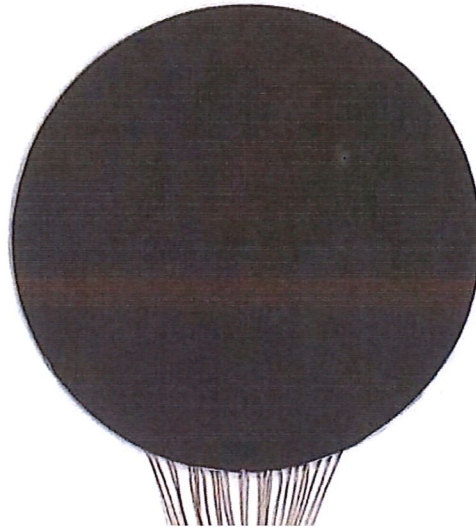


Spade Tang



Vacuum Contacts Pins & Sockets
0.056" & 0.040"

Bare Wire



Substrates

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

Substrate Sizes Offered

100mm, 125mm, 150mm, 200mm and 300mm

Feedthrough

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



SPECIFICATIONS		
Wire Gauge	36 AWG	30 AWG
Standard Gap	0.150mm	0.300mm
Planarity	+/-1% STANDARD GAP	+/-1% STANDARD GAP
USE THE TABLE		
100mm	1.050mm +/- 0.050	2.850mm +/- 0.075
125mm	1.250mm +/- 0.050	3.050mm +/- 0.075
150mm	1.350mm +/- 0.050	3.150mm +/- 0.075
200mm	1.450mm +/- 0.050	3.250mm +/- 0.075
300mm	1.550mm +/- 0.050	3.350mm +/- 0.075

