



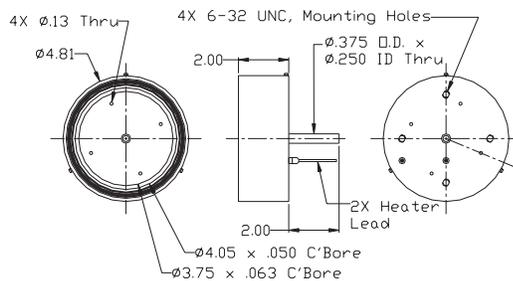
Model 101511 O₂ Substrate Heater

- 1000°C O₂ operation
- 1200°C operation with Precious metal heating element (with #101446 shield/mount)
- Up to Ø2" Substrate
- Exposed element for maximum sample temperature
- Available also with shield housing, #101446 with sample holder and hold down clips, #101479
- TC access to substrate
- See Model 101303-03 controller/power supply for programmable control



Model 101710 and 101769 Oxidizing Atmosphere Ø4.0" and Ø6.0" Wafer Heaters

- 850°C operation
- 1200°C with optional precious metal element, allows UHV/O₂ operation
- Complete side and rear shielding
- Thermocouple access to substrate
- Available in other sizes
- Available with optional push pin guides as pictured
- See Model 101303-04 controller/power supply for programmable control



Dimensions typical for Ø4.0" Heater



Shown with optional sample window

Model 101446 O₂ Heater With Sample Holder

- 1000°C in O₂ Operation
- 1200°C with Optional Precious Metal Element
- Up to Ø2" substrate
- Complete side and rear shield
- Uses #101511 heater assembly
- TC access to substrate
- #101479 sample clips available separately also
- See Model 101303 controller/power supply for programmable control
- See 101868 for 1200°C UHV heater option



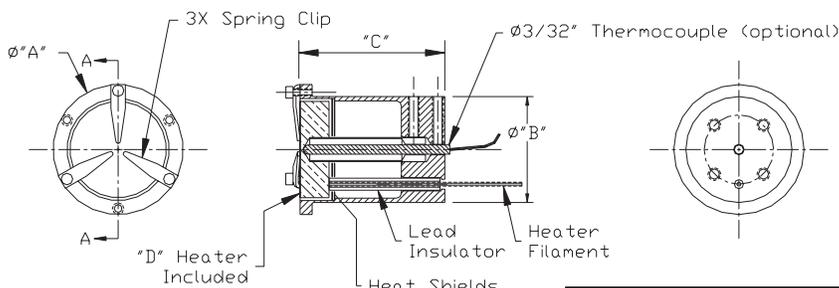
Shown without top heat shield



Model #101491-02, O₂



Model #101491-01, UHV



View A-A

101491-02		
V	I	T, deg. C
9.2	6.0	500
14.5	8.0	800
18.5	9.1	1000
23.0	10.5	1200

Model 101491 UHV/O₂ Heater With Sample Clips

- 850-1200°C in O₂ Operation, 1200°C in UHV
- Up to Ø1" substrate
- Complete side and rear heat shield
- Thermocouple (optional) access from rear to within .05" of substrate
- #101479 sample clips also available separately
- See Model 101303 controller/power supply for programmable control
- See Accessories section for purchasing sample holding clips (part #101479) individually

Dash #	Operating Atmosphere	Maximum Temperature	Heater Diameter	"A"	"B"	"C"	"D"
-01	UHV	1200 deg.C					101138
-02	UHV/O ₂	1200 deg.C	1.00	1.35	1.10	1.50	101275-22
-03	O ₂	850 deg.C					101275-27
-04	UHV	1200 deg.C					101137
-05	UHV/O ₂	1200 deg.C	0.50	0.85	0.57	0.75	101275-21
-06	O ₂	850 deg.C					101275-28
-07	UHV	1200 deg.C					101136
-08	UHV/O ₂	1200 deg.C	0.32	Custom	Custom	Custom	101275-26
-09	O ₂	850 deg.C					101275-29