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**PARTS LIST**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>-</td>
<td>Customer Supplied Ceramic Board</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>M2x0.4 x 3</td>
<td>Mo, Slotted Pan Head Machine Screw</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>107935</td>
<td>Ø1/2 O2 Heater Assembly w/TC</td>
</tr>
</tbody>
</table>

Notes:
1. All parts must be clean for UHV use prior to assembly per MP-264.
2. Assembly must be handled with good clean room practice per MP-220.
3. Estimated operation:
   - 9.6V, 3.6A @ 1000°C
   - 12.7V, 3.9A @ 1200°C
4. The materials exposed to the chamber atmosphere are SST 310, Inconel 600, Ti, Alumel, Chromel, Alumina and Pt/Rh. All fasteners on the heater assembly will be Ti. The screws supplied to mount the heater assembly to the board are Moly.

HeatWave Labs, Inc.

Board Mounted Ø1/2 O2 Heater Assembly w/Sample Clips

Material:
-
Board Mounting Instructions:
1. Loosen the two set screws (5), one for each filament lead.
2. Loosen 2X screws (4) for each pad just enough to allow pads (3) to move. These screws must not allow the pads to move more than what is required to seat flat on the board.
3. Mount housing (1) to board with screws supplied in two holes (2), secure.
4. Install one screw supplied into each pad and snug with minimal torque to seat pads to board. Care must be taken not to twist the pad in its location. If it does twist the two screws (4) are too loose.
5. Tighten two screws (4) on each pad to secure pad to housing. Minimal torque must be used to not stress the board materials.
6. Tighten one screw (5) for each filament lead to secure and make electrical contact.