The model GA1122 is a waveguide 3-port circulator designed for high power industrial heating applications requiring high reliability and rugged construction. These circulators are most often used with dummy loads in an isolator configuration for magnetron protection, but they are also useful for other purposes in conjunction with devices such as phase shifters and variable attenuators.

Construction of the GA1122 is all aluminum waveguide. Corrosion due to harsh cooling water supplies is minimized using all copper water lines and brass fittings.

**General Specifications:**
- **Frequency**: 2450 MHz nominal
- **Input Power**: 1.2 kW continuous max. (fwd and rev)
- **Waveguide**: WR340 (RG113/U)
- **Flanges**: WR340 (UG1713/U) with M6 tapped holes
- **Input VSWR**: 1.2 max. (Port 1)
- **Insertion Loss**: 0.20 dB max. (Port 1 to Port 2)
- **Isolation**: 20 dB min. (Port 2 to Port 1)
- **Coupler Probe**: Type N female (optional)
- **Coupler Calibration**: 50 +/- 1 dB
- **Construction**: Aluminum body
- **Finish**: Clear chemical film

**Options:**
- Flange interlock switch (any flange)
- Flange mounting studs
- Coupler probes (see table)

**Accessories:**
- GA3208/9 Power Meter Set
- GA3301 Coupler Power Interface

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**Model Number Table**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA1122</td>
<td>WITHOUT COUPLER PROBE</td>
</tr>
<tr>
<td>GA1122-1</td>
<td>WITH REFL POWER PROBE</td>
</tr>
</tbody>
</table>

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**Diagrams and Measurements**

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