The model GA1114 2-port isolator is designed for high power industrial heating applications requiring high reliability and rugged construction. This isolator is most often used for protecting magnetrons from the damaging effects of reverse microwave power. It is designed for continuous forward microwave power and will withstand a full reflection under continuous duty. A calibrated coupler port is provided for monitoring and reverse power entering port 2.

Construction of the GA1114 is all aluminum waveguide. Reverse power is absorbed directly into water flowing through an internal microwave transparent insert. All other water lines and fittings are copper or brass to minimize corrosion due to harsh cooling water supplies.

**General Specifications:**
- Frequency: 2450 MHz nominal
- Input Power: GA1114: 3 kW continuous max. (fwd and rev)
- Waveguide: WR284 (RG75/U)
- Flanges: CPR284 (UG1725/U) with 1/4-20 tapped holes
- Input VSWR: 1.2 max. (Port 1)
- Insertion Loss: 0.150 dB max. (Port 1 to Port 2)
- Isolation: 20 dB min. (Port 2 to Port 1)
- Coupler Probe: Type N female
- Coupler Calibration: 60 +/- 1 dB
- Water Connections: 1/4 NPT female threads
- Water Flow: 1.0 gpm (3.8 lpm) nominal, 70 psig (483 kPa) max. inlet pressure, 10-40°C inlet temp (must be above dew point), 50°C max. outlet temp

**Construction:**
- Aluminum body, brass water connections

**Finish:**
- Clear conversion coating, Black paint (dummy load only)

**Options:**
- Flange interlock switch (any flange)
- Flange mounting studs
- Alternate probe coupling factor

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