The model GA1120 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 10kW continuous forward microwave power and will withstand a full reflection under continuous duty. A calibrated coupler port is provided for monitoring reverse power entering port 2.

Construction of the GA1120 is all aluminum waveguide. Reverse power is absorbed directly into water flowing through internal quartz tubes. 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**: 10 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**: 0.15 dB max. (Port 1 to Port 2)
- **Isolation**: 20 dB min. (Port 2 to Port 1) with full reflection at any phase
- **Coupler Probe**: Type N female
- **Coupler Calibration**: 56 +/- 1 dB
- **Water Connections**: 1/4 NPT female threads
- **Water Flow**: 2.0 gpm (7.6 lpm) nominal, 125 psig (862 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**: Waveguide: Clear conversion coating
  - Copper/Brass: Nickel plating

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

**Accessories:**
- GA3208/9 Power Meter Set
- GA3301 Coupler Power Interface
2-Port Isolator, 10kW, WR340

Model GA1120

10X M6x 1.0 METRIC TAP X .50 [13] DP. (BOTH SIDES)

WATER CONNECTION, 1/4 NPT FEMALE (TOP AND BOTTOM)

REFLECTED POWER PROBE (TYPE N FEMALE)

All dimensions are in inches [millimeters].