2-Port Isolator, 6kW, WR340

The model GA1116 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 reverse power entering port 2.

Construction of the GA1116 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:** 6 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
- **Coupler Calibration:** 60 +/- 1 dB
- **Water Connections:** 1/4 NPT female threads
- **Water Flow:** 145 psig (1 MPa) max. inlet pressure, 10-35°C inlet temp (must be above dew point), 50°C max. outlet temp (see chart for minimum flow rates)
- **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:**

- GA3213 Digital Power Meter Set
- GA3301 Coupler Power Interface

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**MINIMUM WATER FLOW RATES**

for given input power levels

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Updated 29OCT13
2-Port Isolator, 6kW, WR340

Model GA1116A

10X M6x1.0 METRIC TAP X .50 [13] DP, (BOTH SIDES)

3.75 [95]

0.24 [6]

7.09 [180]

4X M6x1.0 METRIC TAP X .50 [13] DP, (BOTH SIDES)

6.69 [170]

2.72 [69]

4.96 [126]

0.20 [5]

7.09 [180]

PORT 1

PORT 2

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

REFLECTED POWER PROBE (TYPE N FEMALE)