

2-Port Isolator, 10kW, WR340

GERLING

Model GA1120

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:

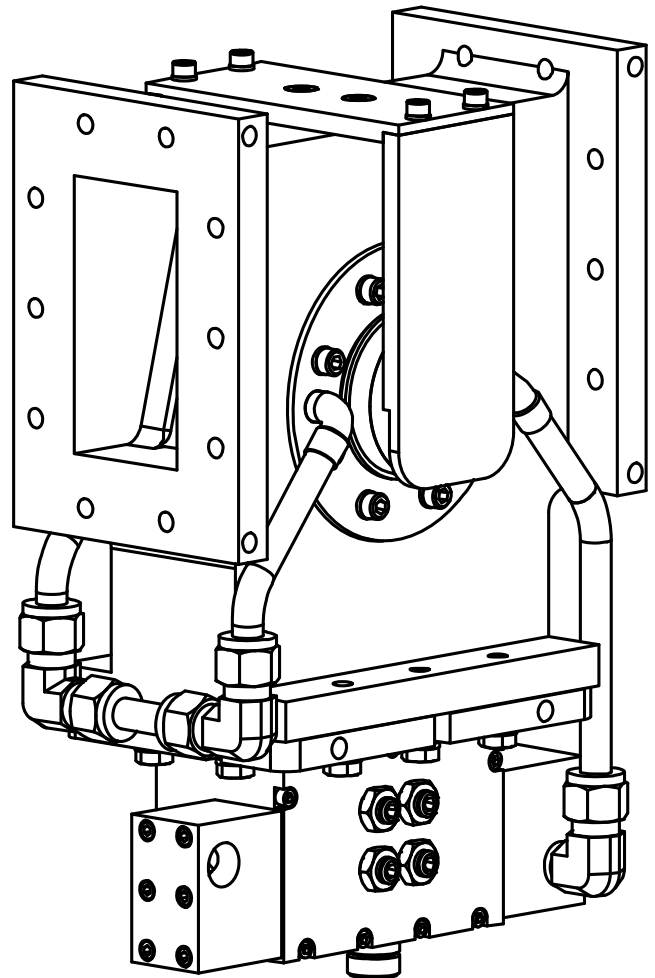
Frequency	2450 MHz nominal
Input Power	10 kW continuous max. (fwd and rev)
Waveguide	WR340 (RG113/U)
Flanges	WR340 (UG1713/U) with M6 tapped holes
Input VSWR	1.2 max. (Port 1)
Insertion Loss	0.15 dB max. (Port 1 to Port 2)
Isolation	20 dB min. (Port 2 to Port 1) with full reflection at any phase
Coupler 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



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