

Pressure/Vacuum Window, WR284

GERLING

Model GA2602

GAE offers a series of waveguide pressure/vacuum windows that deliver good performance at relatively high microwave power levels. The standard models in the series utilize a fused quartz silica window captured between silicone o-rings in an aluminum base. Matching irises located on both sides ensure low VSWR across the ISM band. An additional o-ring is provided for external pressure/vacuum sealing to the mating flange surface. Optional materials are available for higher temperature operation, as well as alternate designs for liquid-cooling.

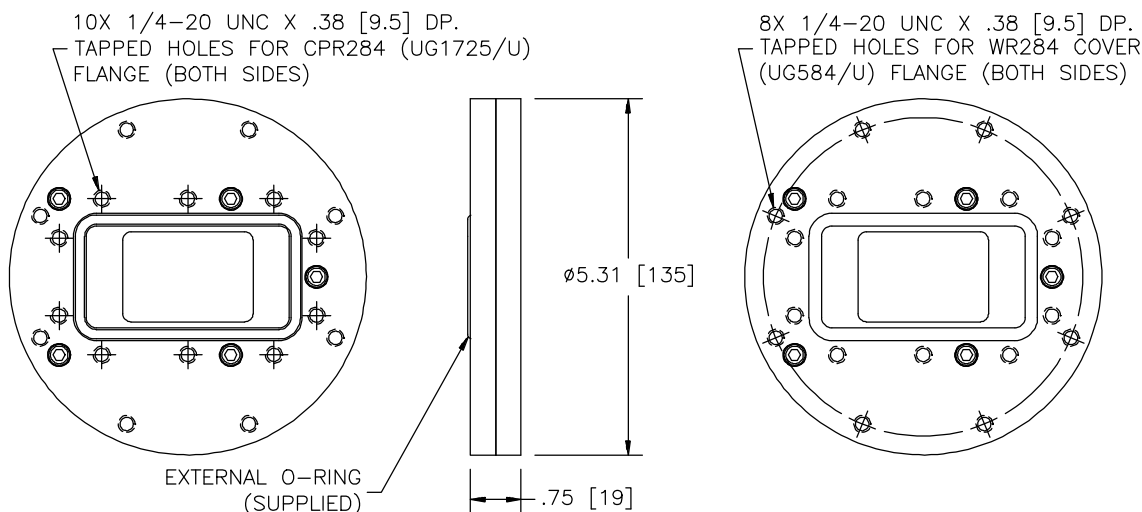
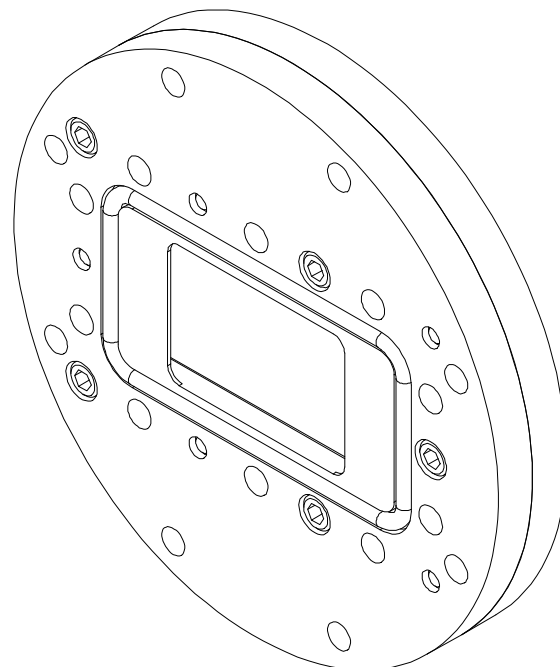
Model GA2602 is designed to accommodate both round (cover) and CPR style WR284 flanges.

General Specifications:

Frequency	2450 MHz +/- 50 MHz
Input Power	3 kW continuous max. (into flat load)
Waveguide	WR284 (RG75/U)
Waveguide Flange	CPR (UG1725/U); Cover (UG584/U)
Input VSWR	1.2 max.
Insertion Loss	.15 dB max
Pressure	30 psig (207 kPa) max.
Leak Rate	10^{-7} Torr-lit/sec max. with SF ₆ gas
Operating Temp	-65 to +450 °F (-54 to +232 °C)
Materials	Aluminum base; Fused quartz window; Silicone o-rings
Finish	Chemical conversion coating

Options:

- ◆ Perfluoroelastomer o-rings (up to 600 °F/316 °C)
- ◆ Alumina or sapphire window
- ◆ Brass base
- ◆ Clearance holes (either or both flange hole patterns)



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