

Basic 3-Stub Tuner, 5.8 GHz, CPR159

GERLING

Model GA1021

GAE's family of Basic 3-Stub Tuners provide an economical means for load impedance matching in high power microwave heating systems. Their simple yet rugged design makes these tuners ideal for a variety of production and OEM applications.

The tuning stubs on model GA1021 are spaced at $1/4$ -guide wavelength intervals and offset $1/16$ -guide wavelength from center. This offset configuration is capable of matching a broader range of impedances simply by inverting the tuner end-to-end.

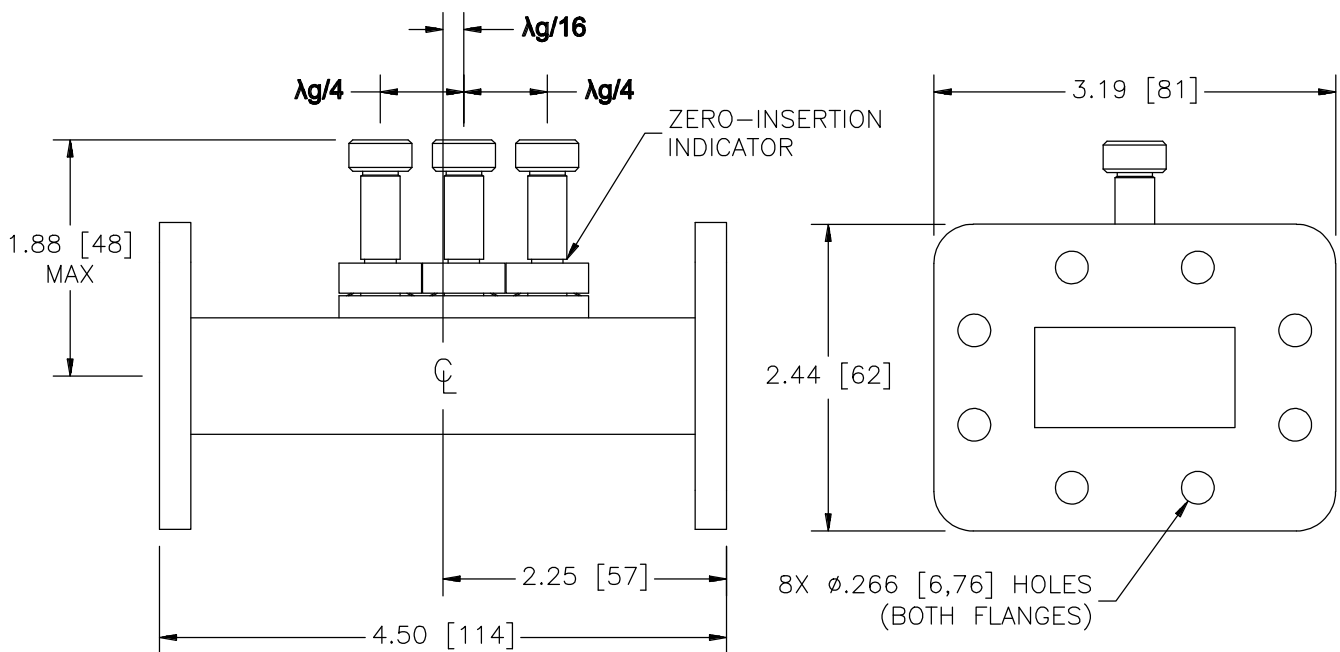
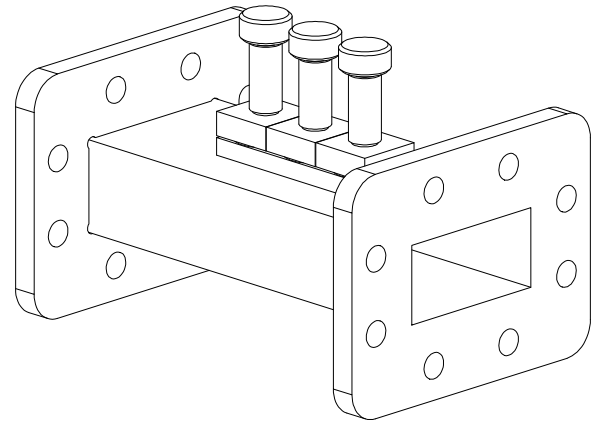
The GA1021 has threaded stub mounts and spring-loaded nuts which maintain secure thread engagement at all times, enabling stub adjustment during high power operation. A "zero insertion" indicator helps prevent inadvertent stub removal during tuning.

General Specifications:

Waveguide	WR159
Flange	CPR159F (UG-1731/U)
Frequency	5.8 GHz +/- 75 MHz
Power (continuous)	1 kW
Impedance Matching	3 manually adjusted stubs on $1/4$ -guide wavelength spacing
Construction	Aluminum waveguide, brass stubs
Finish	Chemical conversion coating

Options:

- ◆ Heli-Coils or studs on flanges (any combination)
- ◆ Round flanges with taper for quick-disconnect clamp
- ◆ Flange interlock switches



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