

Basic 3-Stub Tuner

GERLING

Model GA1004
Model GA1005
Model GA1006

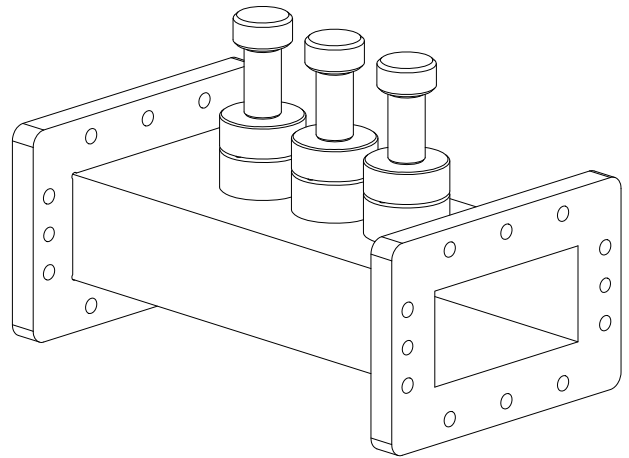
GAE's family of Basic 3-Stub Tuners provide an economical means for load impedance matching in high power microwave heating systems. Their simple yet rugged design makes these tuners ideal for a variety of production and OEM applications.

The stubs on all three models are spaced at 1/4-guide wavelength intervals and offset 1/16-guide wavelength from center. These offset configurations are capable of tuning a broader range of impedances than standard tuners having no stub position offset.

Two stub designs are available within the Basic series. The standard models have threaded stub mounts and spring-loaded nuts which maintain secure thread engagement at all times, enabling stub adjustment during high power operation. The enhanced models (identified by adding the suffix "E") feature 1/4-wave chokes in the stub mounts to enable stub adjustment under high field strength (high "Q") conditions.

General Specifications:

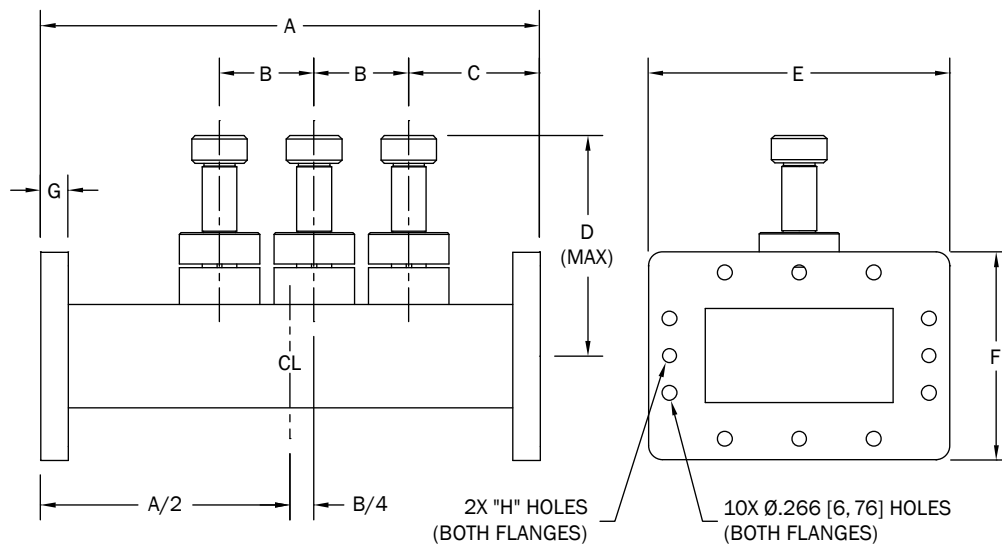
Waveguide	WR284 (GA1004) WR340 (GA1005) WR430 (GA1006)
Flange	UG1725/U (GA1004) UG554/U (GA1005) UG437B/U (GA1006)
Frequency	2450 MHz +/- 50 MHz
Power (continuous)	3 kW (GA1004) 6 kW (GA1005) 10 kW (GA1006)
Impedance Matching	3 manually adjusted stubs
Construction	Dip brazed aluminum waveguide, brass stubs
Finish	Chemical conversion coating on waveguide, textured black paint



Model GA1005

Options:

- ◆ Heli-Coils or studs on flanges (any combination)
- ◆ Round flanges with taper for quick-disconnect clamp (GA1004 and GA1005 only)
- ◆ Flange interlock switches
- ◆ Water cooling



DIM	GA1004	GA1005	GA1006
A	9.00 [229]	9.00 [229]	9.00 [229]
B	2.27 [58]	1.71 [43]	1.45 [37]
C	1.66 [42]	2.37 [60]	2.68 [68]
D*	3.67 [93]	3.85 [98]	4.08 [104]
E	4.50 [114]	5.44 [138]	6.34 [161]
F	3.00 [76]	3.75 [95]	4.19 [106]
G	.38 [9,6]	.44 [11,2]	.44 [11,2]
H	NONE	.250 [6,35]	.250 [6,35]

* ADD 1.20 [30] FOR ENHANCED MODELS.



GERLING APPLIED ENGINEERING, INC.

All dimensions are in inches [millimeters].

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