

Basic Sliding Short Circuit

GERLING

Model GA1216A
Model GA1218A
Model GA1219A
Model GA1220A

GAE's family of Basic Sliding Short Circuits are designed for use in high power microwave networks to establish a standing wave in waveguide and continuously vary the location of the standing wave throughout a range of positions. Typical uses include waveguide applicators in which a standing wave must be accurately positioned to maximize the coupling of microwave power to the load being heating.

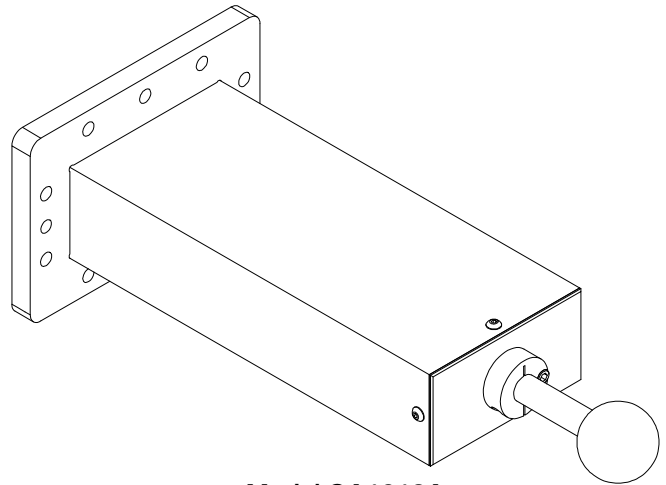
The sliding plunger utilizes an open type 1/4-wave reactive choke with Teflon between sliding contact surfaces to reduce power absorption (return loss) and wear during high power operation. Plunger travel of over 1/2-guide wavelength is adjusted using a sliding actuator rod which can be locked in the desired position by a clamping collar.

General Specifications:

Frequency	2450 MHz nominal
Power (continuous)	3 kW (GA1216A, GA1218A) 6 kW (GA1219A, GA1220A)
Return Loss	0.1 dB max @ 2450 MHz
Construction	Dip brazed aluminum waveguide, steel adjusting rod
Finish	Chemical conversion coating on waveguide

Options:

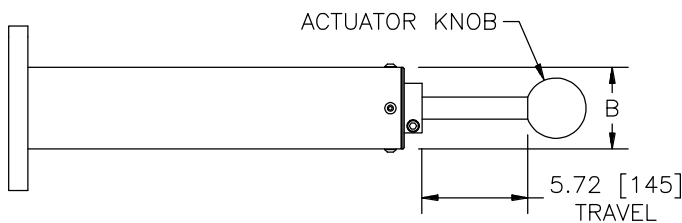
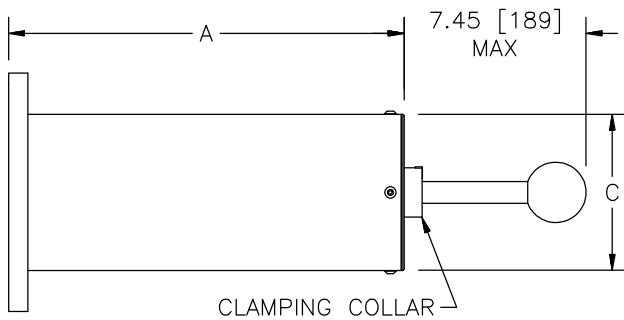
- ◆ Heli-Coils or studs on flanges (any combination)
- ◆ Round flange with taper for quick-disconnect clamp on WR340
- ◆ Flange interlock switches



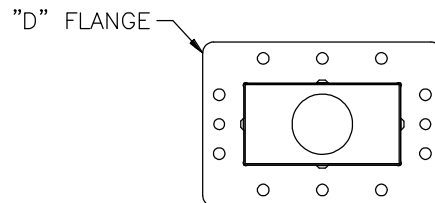
Model GA1219A

Accessories:

- ◆ Flange Hardware Kit, Model GA8409 (please see GA8409 specification for selection)
- ◆ Flange Clamp, Quick-Release, Model GA8410 (used with model GA1218A only)



	GA1216A	GA1218A	GA1219A	GA1220A
WAVEGUIDE	WR284	WR284	WR340	WR430
A	9.75 [248]	9.75 [248]	9.00 [229]	8.75 [222]
B	1.50 [38.1]	1.50 [38.1]	1.86 [47.2]	2.31 [58.7]
C	3.00 [76.2]	3.00 [76.2]	3.56 [90.4]	4.46 [113]
D	UG1725/U (CPR)	UG584/U (ROUND)	UG554/U (CPR)	UG437B/U (CPR)



**GERLING APPLIED
ENGINEERING, INC.**

© 2005-2008 Gerling Applied Engineering, Inc.
 PO Box 580816 • Modesto, CA 95358 • USA
 Phone: +1-209-527-8960 • Fax: +1-209-527-5385
 E-mail: sales@2450MHz.com • Web: www.2450MHz.com