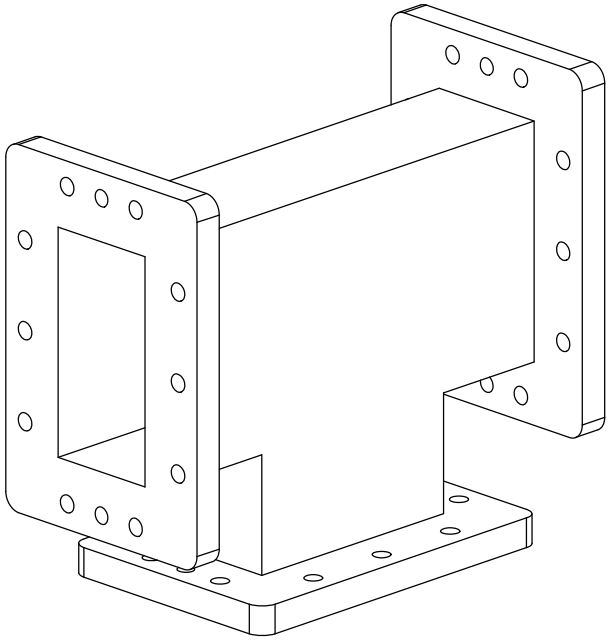
H-Plane (Shunt) Tee

GERLING

Model GA2313
Model GA2317
Model GA2318

Waveguide H-Plane (shunt) Tees are commonly used for dividing microwave power evenly between two waveguides. When matched loads are connected to both output ports, microwave power entering the input port of the Tee is divided evenly between its two output ports. Furthermore, the output waves will have the same phase relationship at the respective output flange surfaces. An impedance matching element is positioned inside the Tee to ensure low VSWR at the input port.

A consequence of connecting a mismatched load to either or both output ports is uneven division of the input power. For this reason, a 2-port isolator (or 3-port circulator and dummy load) may be connected at both output ports of the Tee to ensure optimal performance.



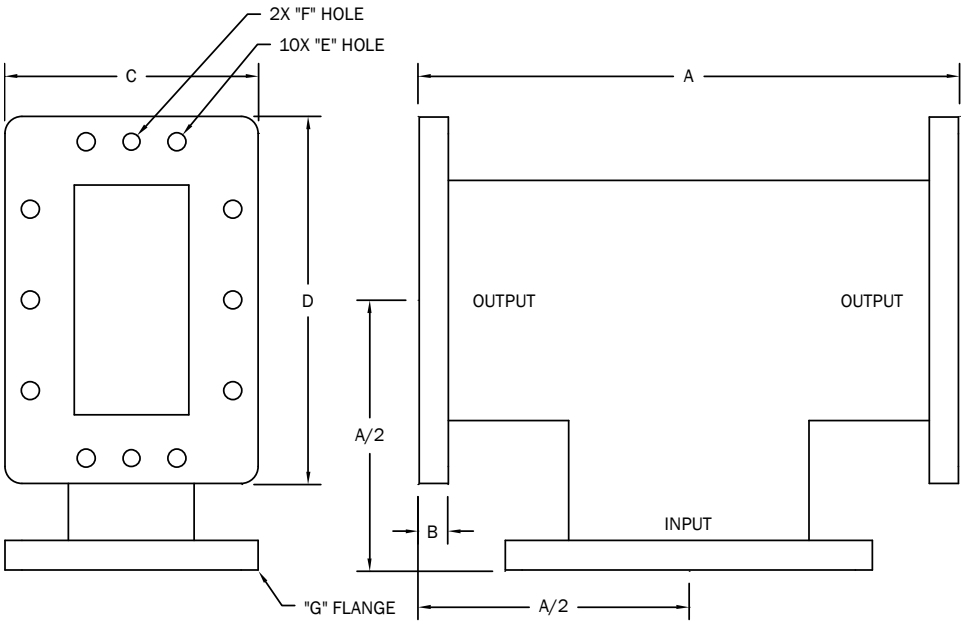
Specifications:

Frequency:	2450 MHz +/- 30 MHz
Waveguide:	GA2313: WR284 GA2317: WR340 GA2318: WR430
Flange:	GA2313: UG1725/U GA2317: UG1713/U GA2318: UG1711/U
Material:	6061-T6 Aluminum
Finish:	Clear chemical film
Input VSWR:	1.15 (max.)
Output Gain:	-3 dB +/- 0.2 dB *
Total Insertion Loss:	.05 dB (max.)

(* With matched loads at output ports)

Accessories:

- Flange hardware kit, model GA8409 (please specify type and length)
- Flange bolt interlock, model GA8408



	GA2313	GA2317	GA2318
WAVEGUIDE	WR284	WR340	WR430
A	7.00 [177,8]	8.00 [203]	9.00 [229]
B	.38 [9,7]	.44 [11,2]	.44 [11,2]
C	3.00 [76,2]	3.75 [95,3]	4.19 [106,4]
D	4.50 [114,3]	5.44 [138,2]	6.34 [161,0]
E	Ø.257 [Ø6,53]	Ø.266 [Ø6,75]	Ø.266 [Ø6,75]
F	NONE	Ø.250 [Ø6,35]	Ø.250 [Ø6,35]
G	UG1725/U	UG1713/U	UG1711/U

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All dimensions are in inches [millimeters].

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