

**Flexible Waveguide, 6 Inch,  
CPR284 to Quick-Release**

APPROVALS			REVISIONS			
	INITIALS	DATE	REV	DESCRIPTION	DATE	APPR
Drawn	JFG	08FEB12	1	Release	08FEB12	JFG
Engineering						
Manufacturing						
Marketing						

**1.0 General Description**

The flexible waveguide described in this document is used in conjunction with the C13170 microwave generator when installed in the GaSonics/Novellus PEP tool. It provides a means to quickly disconnect the output flange of the microwave generator to facilitate its removal and replacement for service. The waveguide section is twistable to provide at least 45 degrees of twist in either direction. The product consists of a flexible waveguide and a quick-release flange clamp.

**2.0 Specifications**

Waveguide	WR284
Flange	Input: Round quick-release Output: CPR284F (UG1725/U)
Material	Flanges: Brass Waveguide: corrugated copper flexible/twistable Clamp: Stainless steel
Construction	Silver solder
Input Power	4 kW average max.
VSWR	1.10 max.
Insertion Loss	.02 dB/ft max.
Twistability (min.)	8 degrees/inch
Pre-Twist	Factory set at 45 degrees (CW or CCW)
Operating Temp	400 °F (204 °C) max.
Microwave Leakage (max.)	1 mW/cm <sup>2</sup> measured at 5 cm from any point

**3.0 Ordering Information**

<u>Description</u>	<u>GAE Part Number</u>	<u>Novellus Part Number</u>
Flex Waveguide, 6 inch, CW Twist, with Clamp	913709-1	94-2623
Flex Waveguide, 6 inch, CCW Twist, with Clamp	913709-2	16-282340-00
Flex Waveguide Section (without twist)	913710	n/a
Clamp, Quick Release	350101	n/a

TPS No: 900124  
Rev: 1  
Page: 2 of 2

## Flexible Waveguide, 6 Inch, CPR284 to Quick-Release

### 4.0 Outline Drawing

