



Parameter	Value
Footprint Drawing No.	FP-10074141
Product Type	Waveguide Bend
Configuration	E-Bend 90°
Center Frequency f_0	2856 MHz and 2998 MHz
Bandwidth BW	± 10 MHz
Forward Peak Power	20 MW max.
Forward Average Power	15 kW max.
Reverse Power	100% at any phase
Insertion Loss	≤ 0.05 dB
Return Loss	≥ 30 dB
VSWR	< 1.065
RF Waveguide	WR284
RF Flanges / Connectors	2x CPR284F, flat, 10 holes Ø 6.5 mm
Cooling System	none
Waveguide Dielectric Filling Gas	SF6
Gas Pressure	nominal: 3 bar absolute
	maximum : 4 bar absolute
Gas Leak Rate (Helium)	< 5·10 ⁻⁴ mbar l/s
	device pressurized with He gas at 2.5 bar gauge
Ambient Temperature	operating : 10°C to 40°C

	storage :	0°C to 60°C
Relative Humidity	< 80%, non-condensing	
Body Material	Aluminium	
Surface Finish	none	
Dimensions	see footprint drawing, bend radius 56.6 mm	
Weight	0.5 kg approximately	
Mounting Orientation	any	
Accessories included	none	

Ordering Code

EB-WR284-02

Notes:

- 1 Low-Power Acceptance Tests: The following tests will be performed at the AFT factory before shipment: (1) small-signal network analyzer measurements of input return loss vs. frequency at room temperature, (2) He-gas leak rate testing.
- 2 Documentation: An owner's manual is supplied for providing information on the installation, operation and maintenance of the device. The documentation will also include specification, footprint drawing.

As an *option to be ordered separately*, extended documentation is available in terms of a low-power RF test report (viewgraphs S-parameters vs. frequency) or written factory test protocol.

Rev.	Remark	Date	Name
00	Initial	01.02.2016	C. Weil