



| Parameter | Value | |
|----------------------------------|---|----------------|
| Footprint Drawing No. | FP-1006716 | |
| 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 CPR284G, grooved, 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 | 2x metallic gasket p/n 1-0002998000-000 | |

Ordering Code

EB-WR284-03

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 | 20.11.2015 | C. Weil |
| | Picture updated | 01.02.2016 | C. Weil |