

C-BAND OPEN-ENDED WAVEGUIDE PROBE ANTENNA

5.85 GHz TO 8.2 GHz

OEWG-WR137

KEY FEATURES

- C-band open-ended waveguide probe antenna
- Typical gain of 7 dBi and designed to minimize VSWR
- Durable all-metal body (aluminum)
- Tapered ends to minimize diffraction effects
- Professionally designed and hand-tested by engineers in the United States

DESIGN SPECIFICATIONS

- Design: Rectangular Open-Ended Waveguide Probe
- Operating Frequency: 5.85 GHz to 8.2 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Waveguide Size: WR-137
- Flange: UG-441/U
- Body Material and Plating: Aluminum Alloy, Paint
- Length: 3.1 in [79.5 mm]
- Width: 3.1 in [79.5 mm]
- Height: 8.0 in [203.2 mm]



OEWG-WR137

PERFORMANCE SPECIFICATIONS

Parameter		Frequency	Min.	Typ.	Max.	Unit
VSWR ¹		5.85 GHz – 8.2 GHz	–	1.9	3.0	–
Gain		5.85 GHz – 8.2 GHz	3.5	7.0	10.0	dBi
HPBW	E-Plane	5.85 GHz – 8.2 GHz	40	85	115	deg.
	H-Plane		35	55	75	
Impedance		–	50			Ω
Connector		–	WR-137 UG-441/U			–

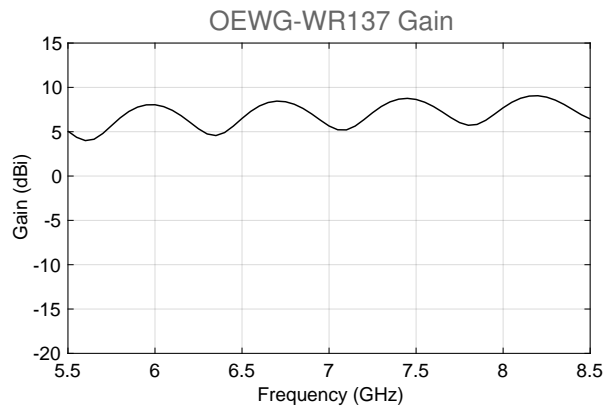
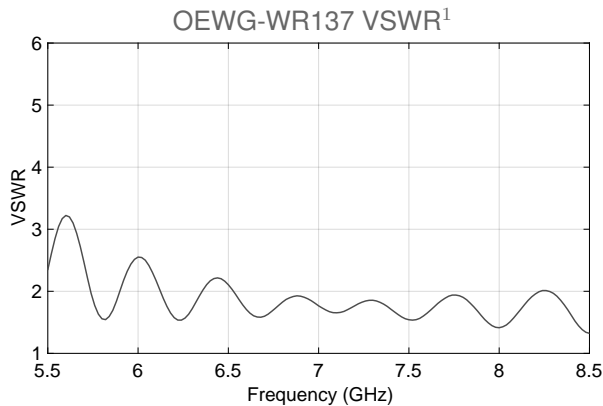
¹ Specification when using the AntenX SMA-WR137 coax to waveguide adapter.

C-BAND OPEN-ENDED WAVEGUIDE PROBE ANTENNA

5.85 GHz TO 8.2 GHz

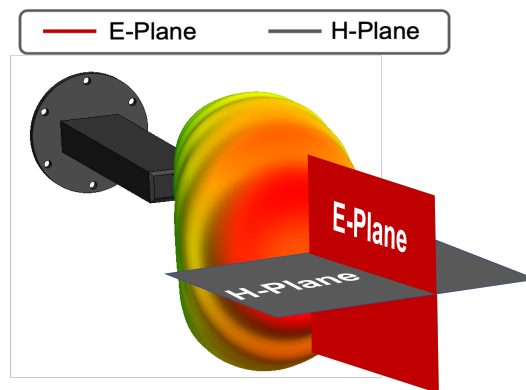
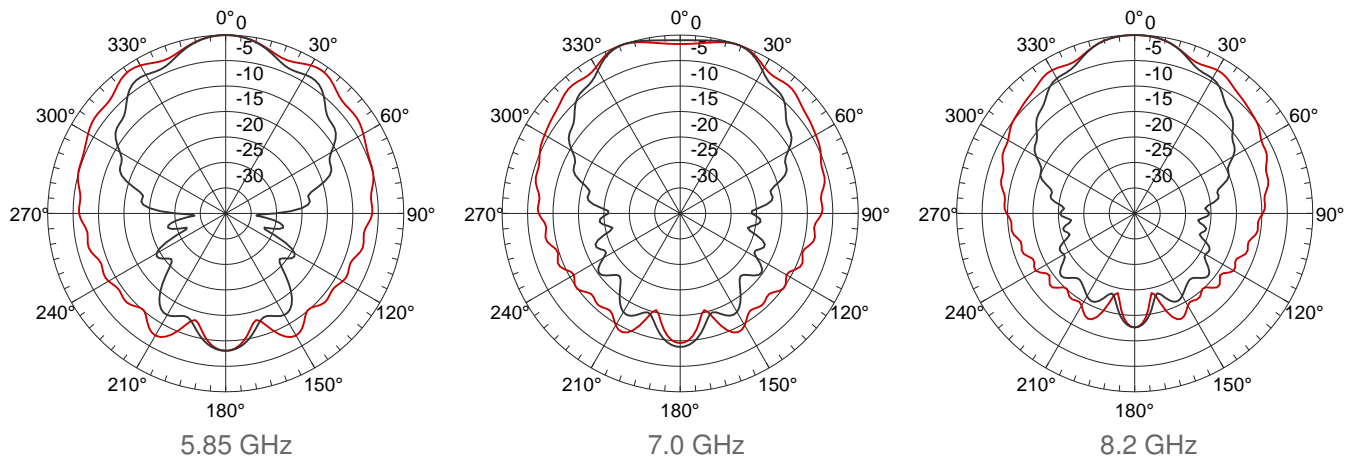
OWEG-WR137

TYPICAL PERFORMANCE



¹ Measured using an AntenX SMA-WR137 coax to waveguide adapter

OWEG-WR137 Normalized Radiation Patterns

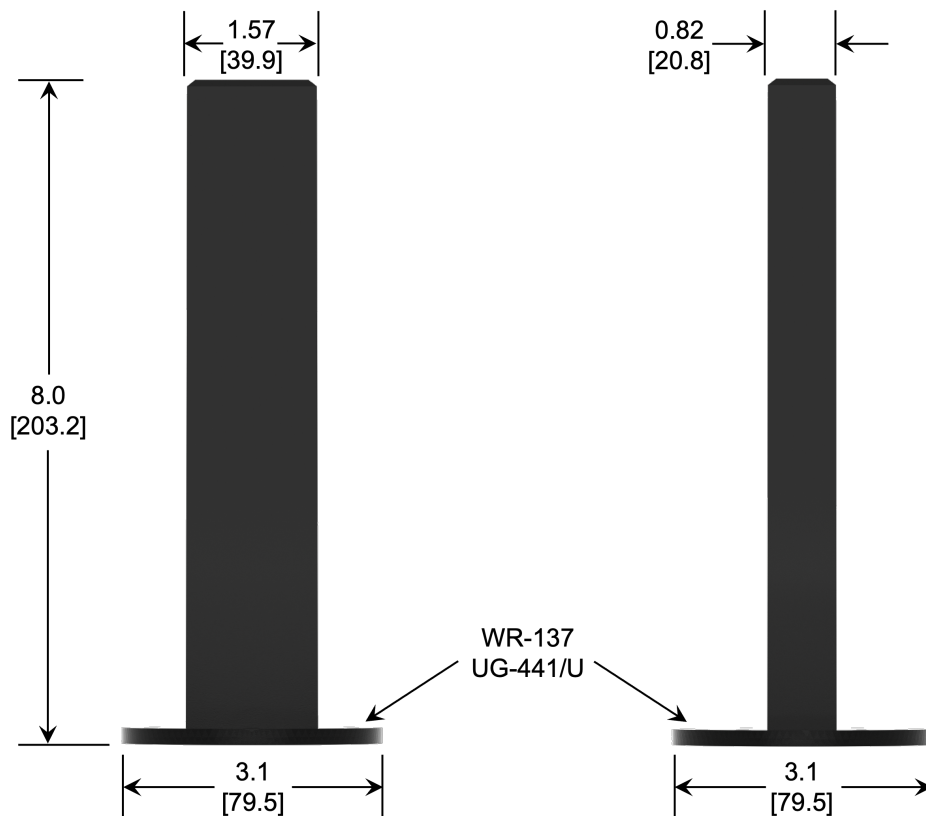


C-BAND OPEN-ENDED WAVEGUIDE PROBE ANTENNA

5.85 GHz TO 8.2 GHz

OEWG-WR137

CAD DRAWING



NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL
2. DIMENSIONS ARE IN INCHES [mm]
3. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME