

C-BAND STANDARD GAIN HORN ANTENNA

5.85 GHz TO 8.2 GHz

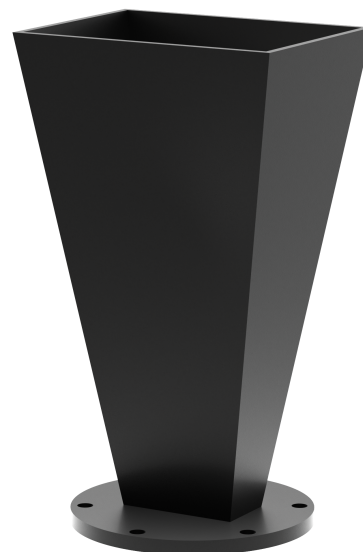
SGH-WR137

KEY FEATURES

- C-band standard gain horn antenna with symmetric E-plane and H-plane radiation patterns
- Durable all-metal body (aluminum)
- VSWR below 1.5:1 (typically below 1.25:1) with gain up to 16 dBi
- Professionally designed and hand-tested by engineers in the United States

DESIGN SPECIFICATIONS

- Design: Pyramidal Waveguide Horn
- 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: 2.7 in [69 mm]
- Width: 3.6 in [92 mm]
- Height: 6.3 in [161 mm]



SGH-WR137

PERFORMANCE SPECIFICATIONS

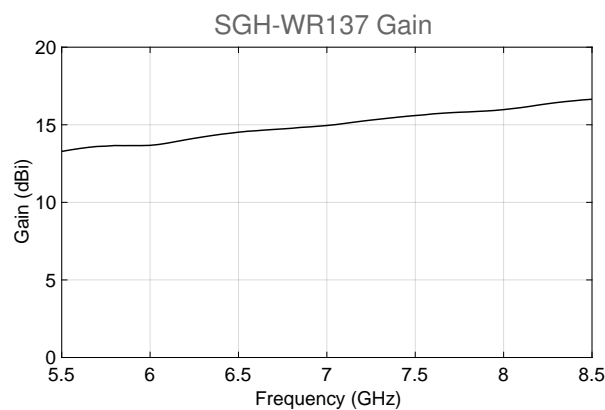
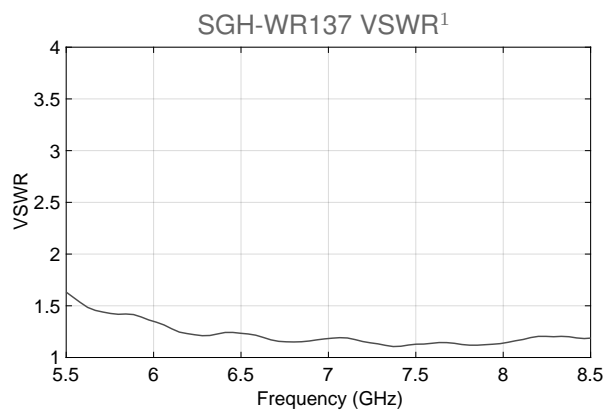
Parameter		Frequency	Min.	Typ.	Max.	Unit
VSWR		5.85 GHz – 8.2 GHz	–	1.25	1.5	–
Gain		5.85 GHz – 8.2 GHz	13.5	15.0	16.0	dBi
HPBW	E-Plane	5.85 GHz – 8.2 GHz	28	32	39	deg.
	H-Plane		28	32	39	
Impedance		–	50			Ω
Connector		–	WR-137 UG-441/U			–

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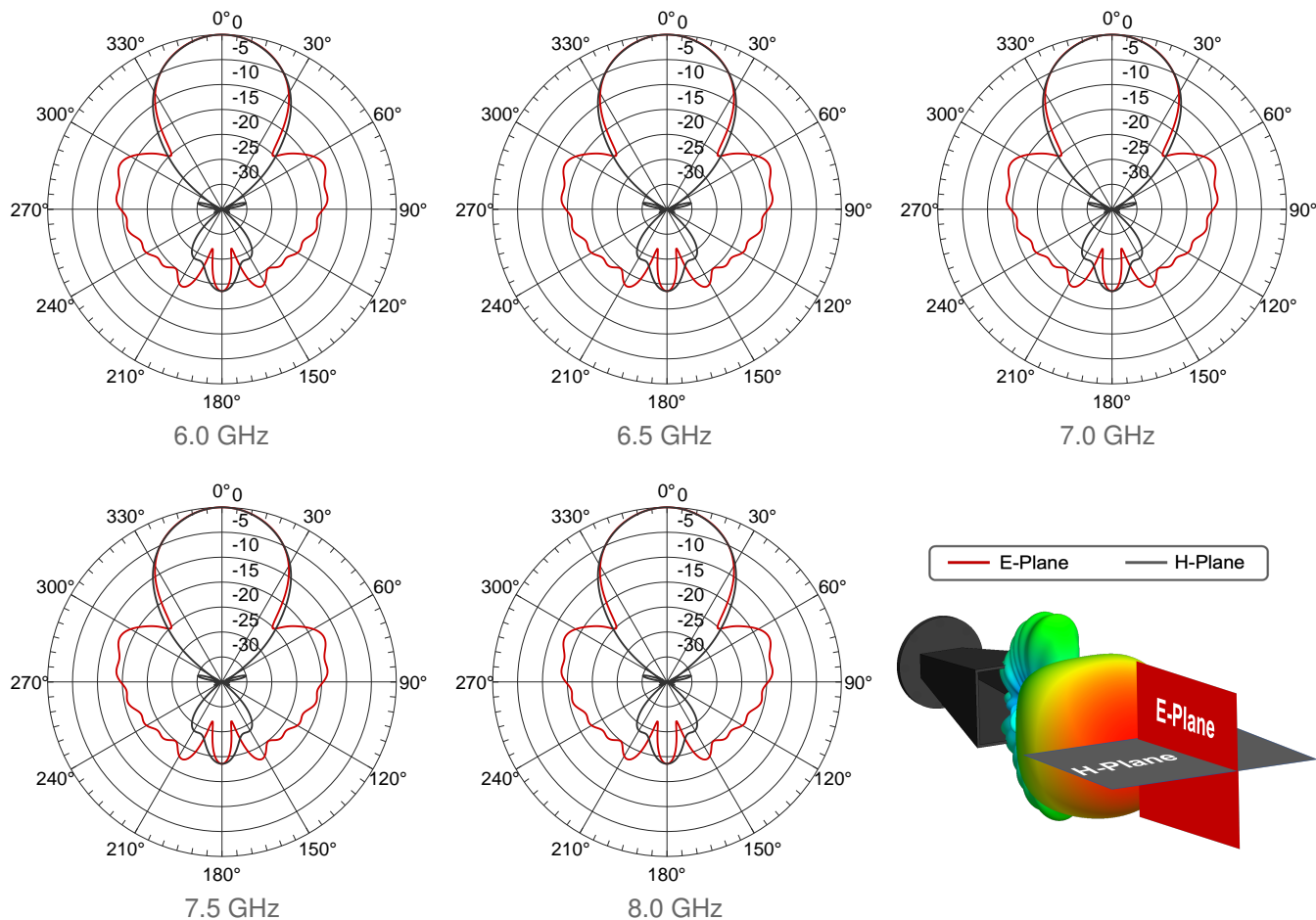
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TYPICAL PERFORMANCE



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

SGH-WR137 Normalized Radiation Patterns

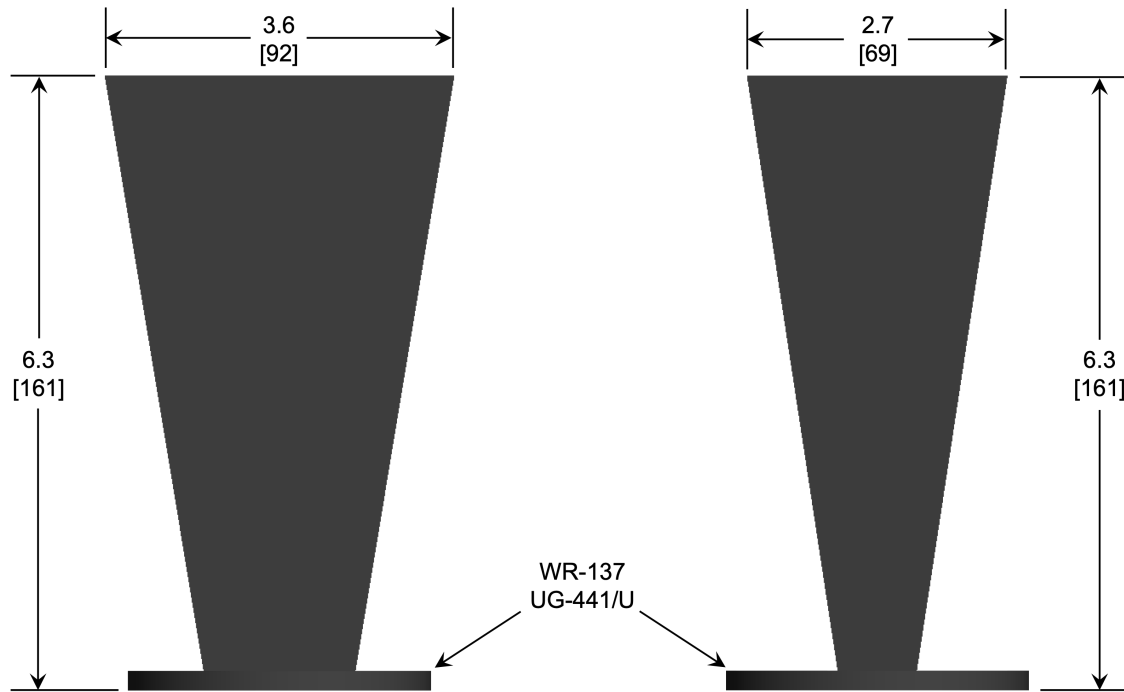


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CAD DRAWING



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