

C-BAND STANDARD GAIN HORN ANTENNA

5.85 GHz TO 8.2 GHz

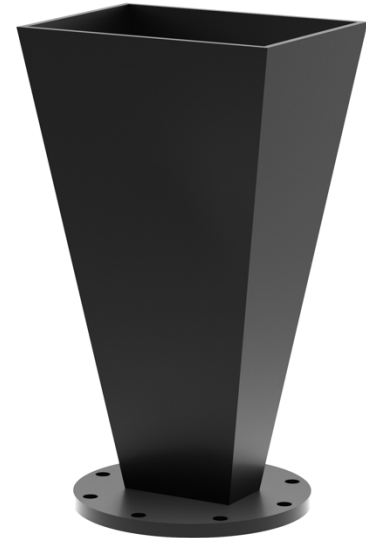
SGH-WR137

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

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 DATA

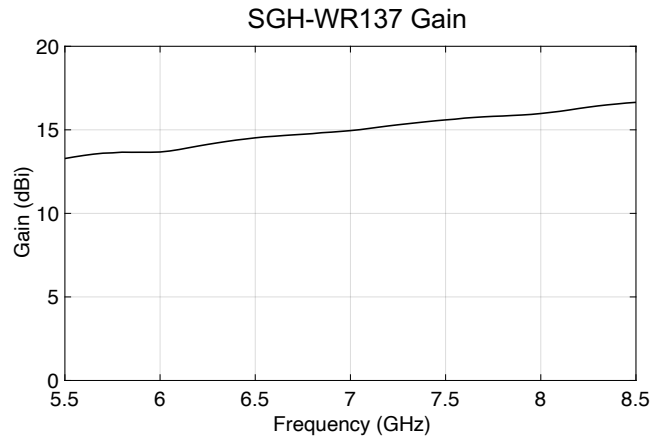
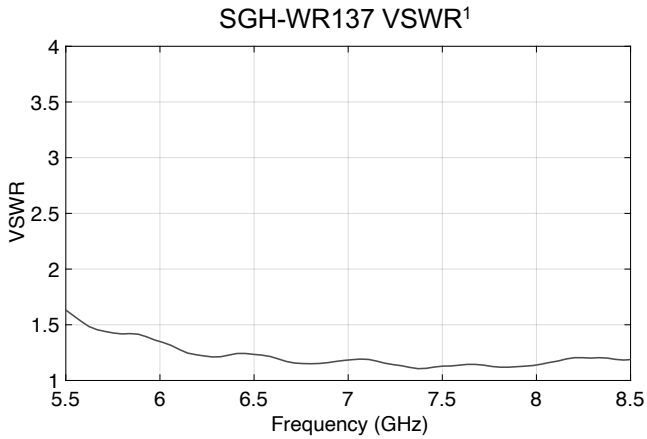
Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	5.85 GHz – 8.2 GHz	—	1.25	1.5	—	
Gain	5.85 GHz – 8.2 GHz	13.5	15.0	16.0	dBi	
HPBW	5.85 GHz – 8.2 GHz	E-Plane	28	32	39	deg.
		H-Plane	28	32	39	
Impedance	—	50			Ω	
Connector	—	WR-137 UG-441/U			—	

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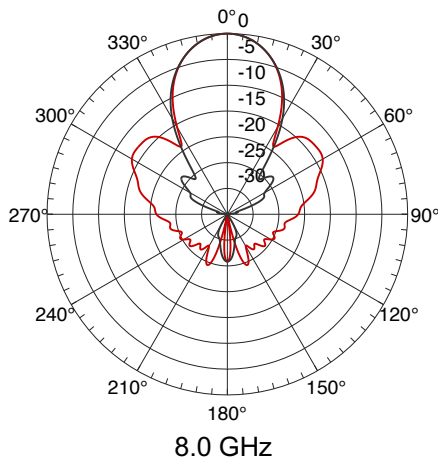
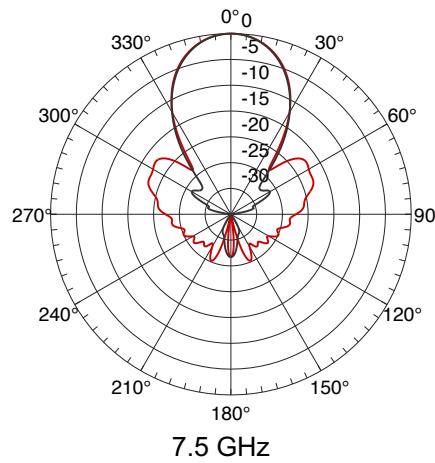
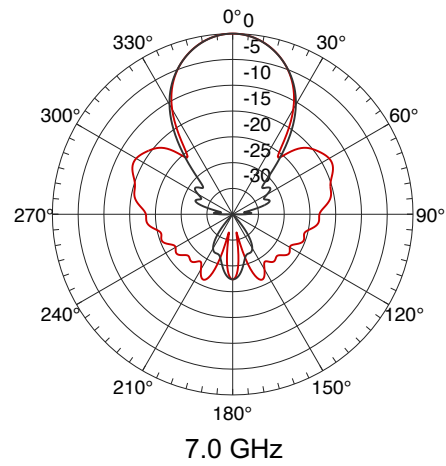
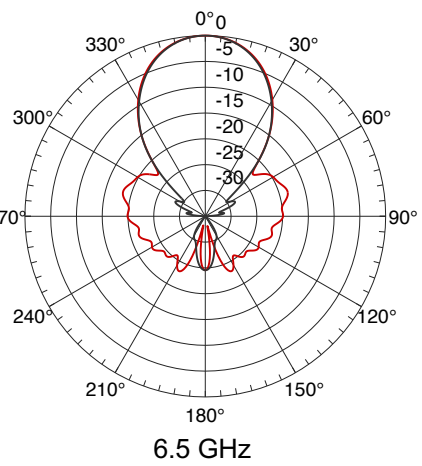
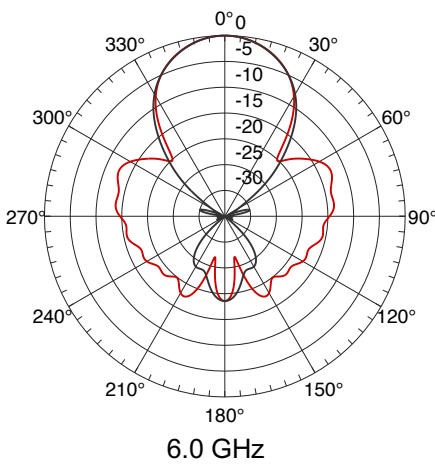
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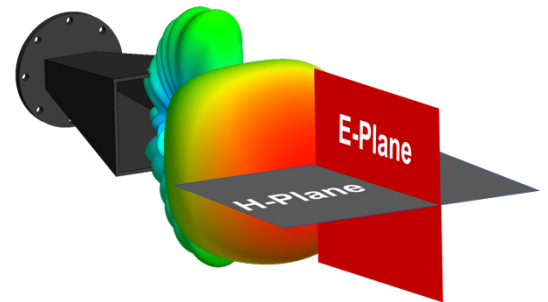
PERFORMANCE DATA (CONT.)



¹ Measured using appliedEM innovations SMA-WR137 coax to waveguide adapter



— E-Plane — H-Plane

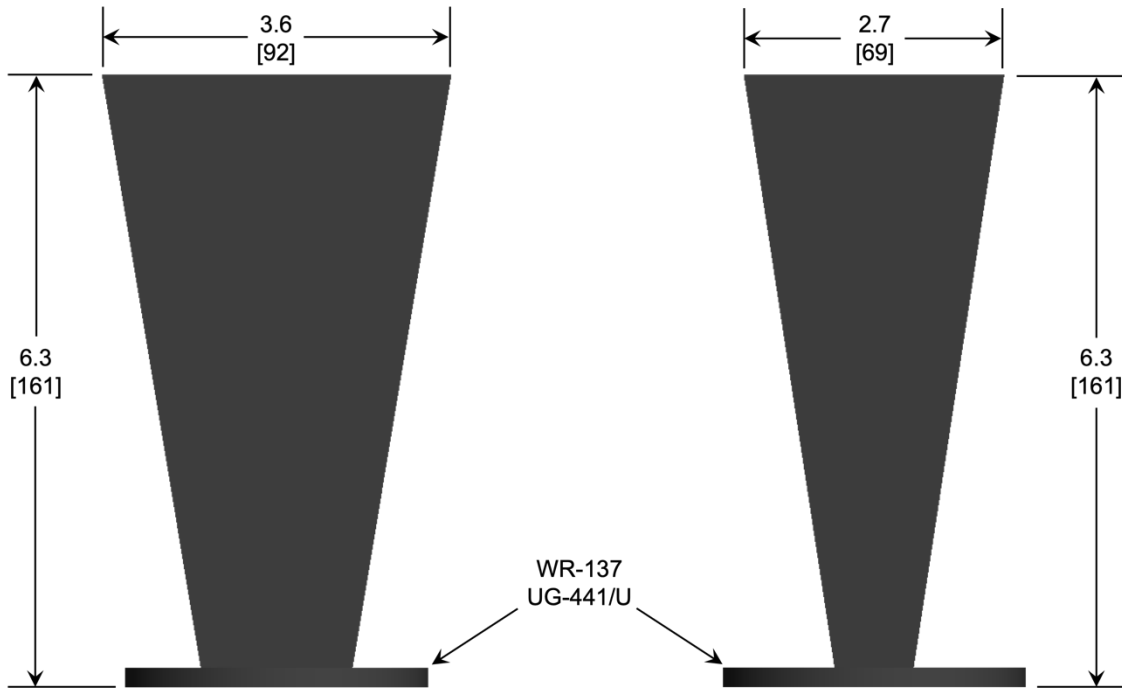


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CAD DRAWING



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