

X-BAND STANDARD GAIN HORN ANTENNA

8.2 GHz TO 12.4 GHz

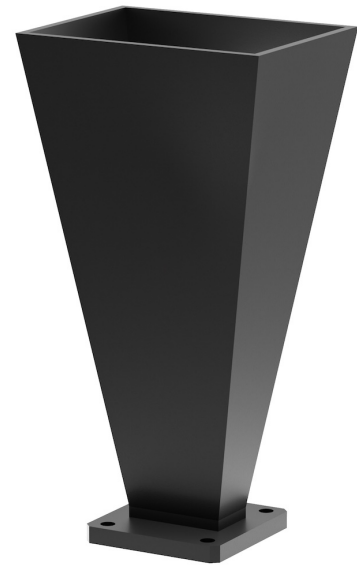
SGH-WR90

KEY FEATURES

- X-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 1.3:1) with gain up to 17 dBi
- Professionally designed and hand-tested by engineers in the United States

DESIGN SPECIFICATIONS

- Design: Pyramidal Waveguide Horn
- Operating Frequency: 8.2 GHz to 12.4 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Waveguide Size: WR-90
- Flange: UG-135/U
- Body Material and Plating: Aluminum Alloy, Paint
- Length: 2.2 in [55 mm]
- Width: 2.9 in [73 mm]
- Height: 5.5 in [139 mm]



SGH-WR90

PERFORMANCE SPECIFICATIONS

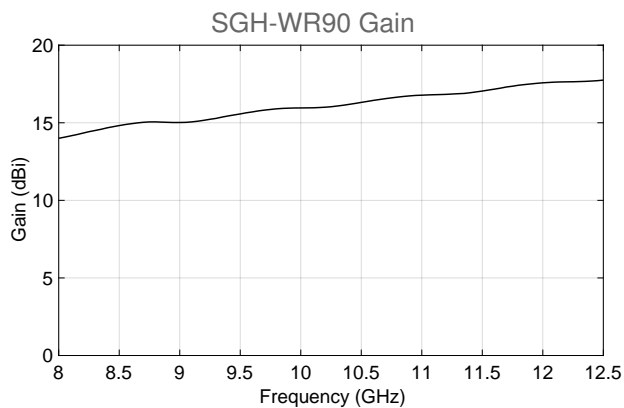
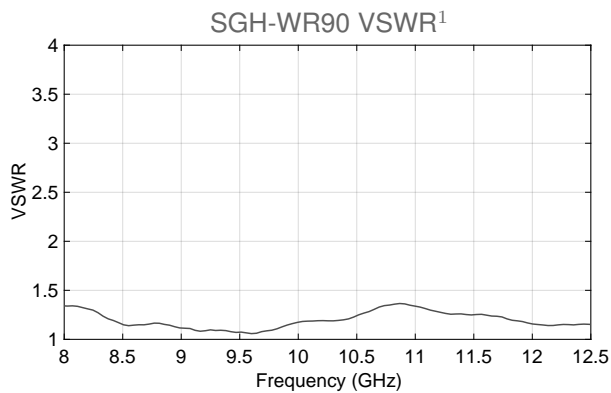
Parameter		Frequency	Min.	Typ.	Max.	Unit
VSWR		8.2 GHz – 12.4 GHz	–	1.3	1.6	–
Gain		8.2 GHz – 12.4 GHz	14.0	15.5	17.0	dBi
HPBW	E-Plane	8.2 GHz – 12.4 GHz	24	29	37	deg.
	H-Plane		24	29	35	
Impedance		–	50			Ω
Connector		–	WR-90 UG-135/U			–

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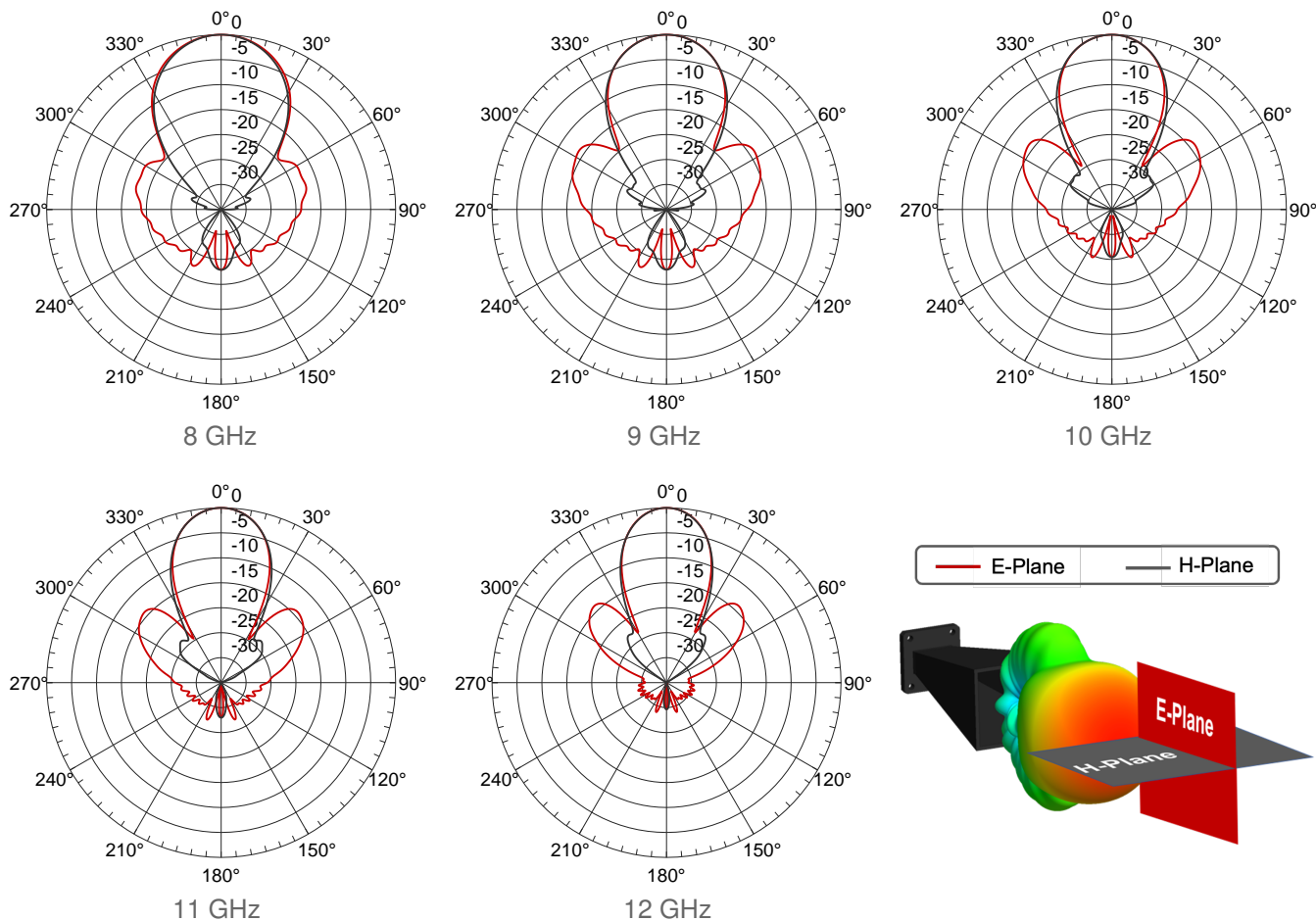
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TYPICAL PERFORMANCE



¹ Measured using an AntenX SMA-WR90 coax to waveguide adapter

SGH-WR90 Normalized Radiation Patterns

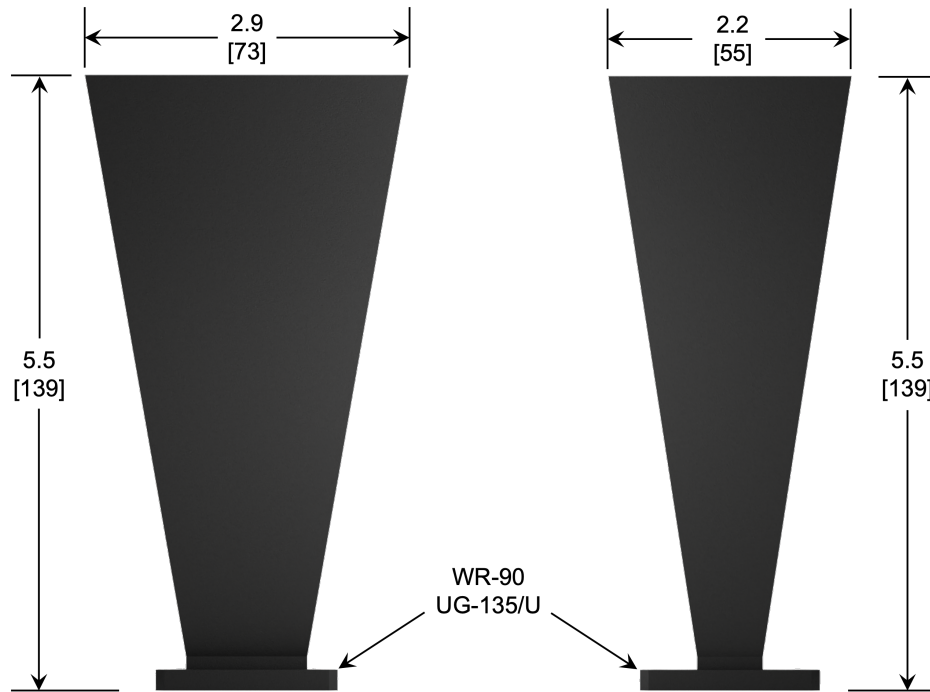


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CAD DRAWING



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