

Quad Ridged, Dual Polarization Horn Antenna, 2 to 18 GHz

Description:

Model SAC-0231831225-SF-S4-DP is a quad ridged, dual polarized horn antenna that operates from 2 to 18 GHz. The antenna offers 12 dB nominal gain and a half power beam width of 25 degrees on the E-plane and 22 degrees on the H-plane. The antenna also offers a 10 dB typical side lobe level across the entire operating frequency. The input ports of this antenna are female SMA connectors. The antenna measures 11.5" long and weighs 2.7 pounds typically.



Features:

- Coaxial Connectors for RF Inputs
- Broadband Width
- Dual Polarization
- Moderate Gain

Applications:

- Communication Systems
- Radar Systems
- Antenna Ranges
- System Setups

Electrical Specifications:

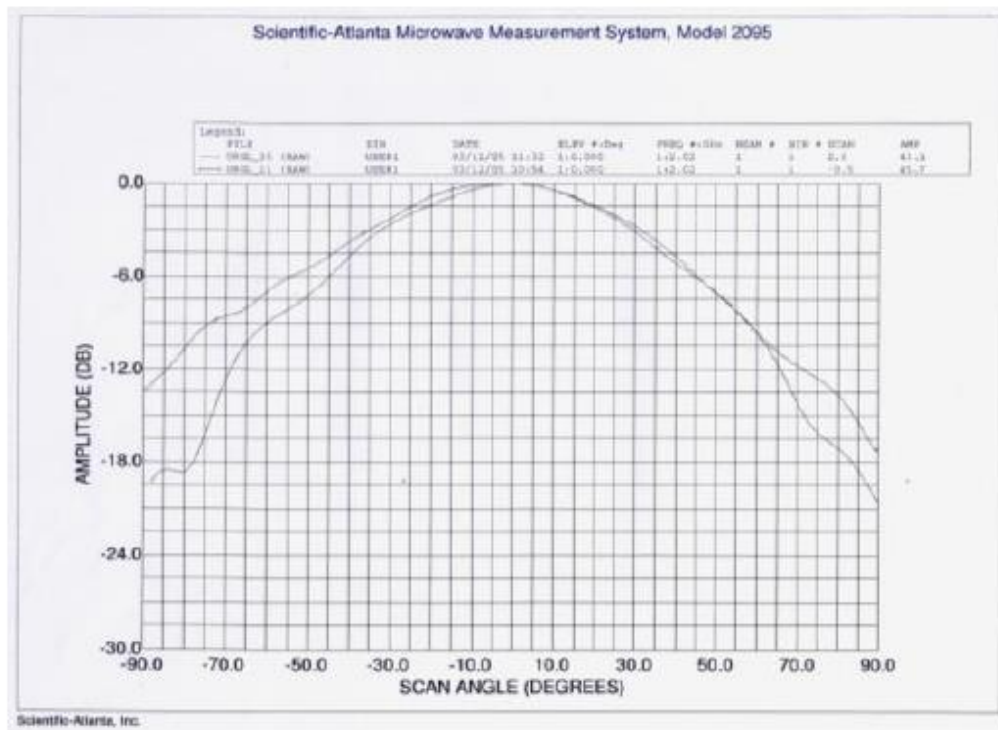
Parameter	Minimum	Typical	Maximum
Frequency	2 GHz		18 GHz
Gain, 12 GHz		12 dB	
E-Plane 3 dB Beamwidth, 12 GHz		25°	
H-Plane 3 dB Beamwidth, 12 GHz		22°	
Vertical and Horizontal Isolation	20 dB	30 dB	
Side Lobe Level		-15 dB	
VSWR		2.0:1	3.0:1

Mechanical Specifications:

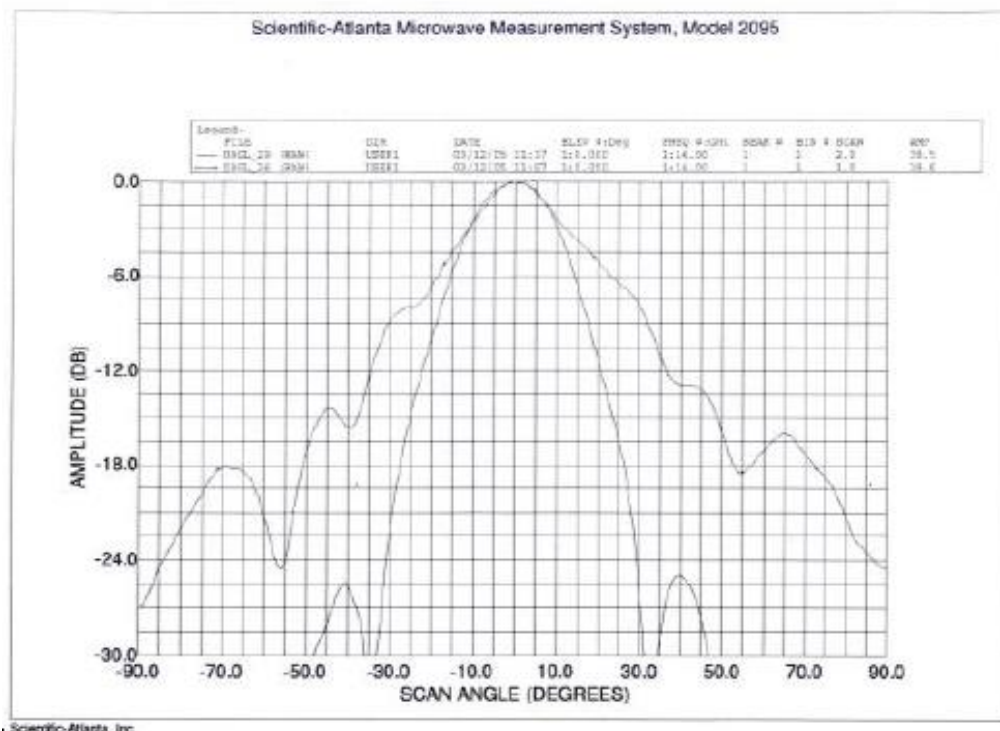
Parameter	Connector
Antenna Ports	SMA (F)
Mounting	0.24" Diameter Through Holes
Material	Aluminum
Finish	Black Paint
Size	7.0" (Ø) x 11.5" (L)
Outline	AC-TS12-DP-BX1
Weight	2.42 lb

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Measured Gain and Radiation Patterns @ 2 GHz

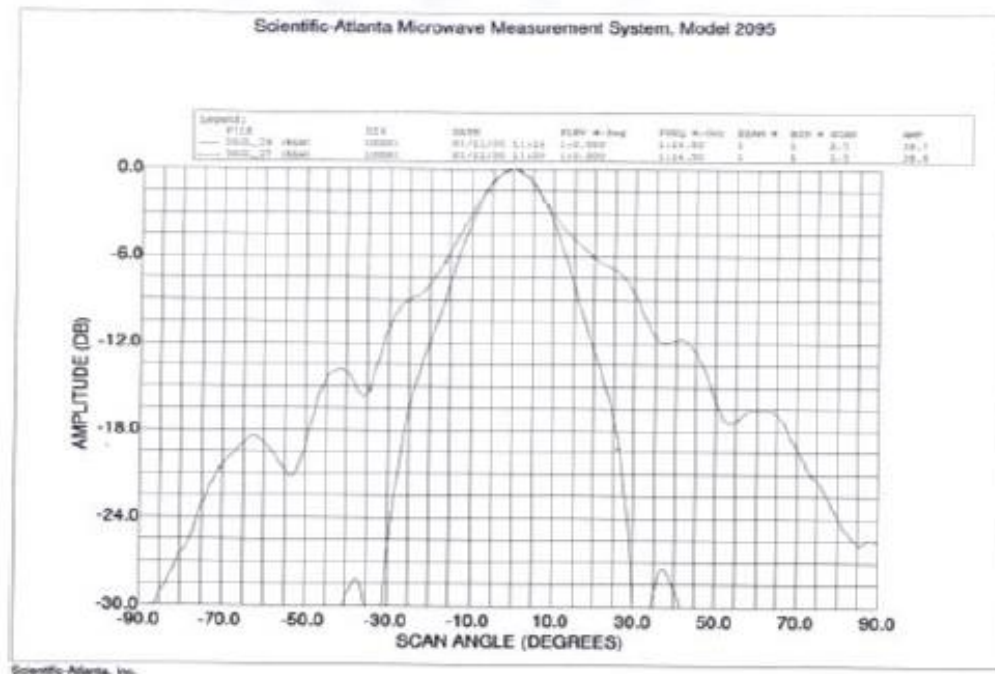


Measured Gain and Radiation Patterns @ 12 GHz

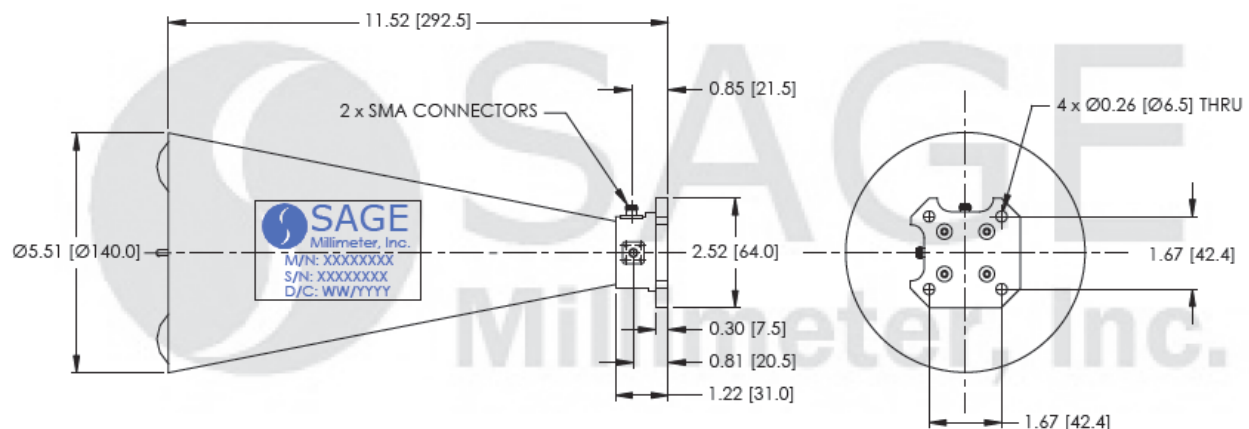


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Measured Gain and Radiation Patterns @ 16 GHz



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- All data are presented by using a limited sample lot. Actual data may vary unit to unit.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.