



Dual-Ridged Horn Antenna, 6 to 67 GHz

Description:

Model SAV-0636731522-VF-U5 is a dual-ridged broadband horn antenna that operates from 6 to 67 GHz. The antenna offers a typical gain of 15 dBi and a typical 3 dB beamwidth of 22° on both the E-plane and H-plane, respectively. The antenna supports linear polarized waveforms. The antenna features a compact design and provides an M3 screw and a mounting plate for flexible mounting capacity. The RF port is equipped with a female 1.85 mm (V) connector.



Features:

- Broadband Operation
- Coaxial Connector for RF Input
- Linear Polarization
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	6 GHz		67 GHz
Gain		15 dBi	
Polarization	Linear		
E-Plane 3 dB Beamwidth		22°	
H-Plane 3 dB Beamwidth		22°	
E-Plane Sidelobe Levels		-10 dB	
H-Plane Sidelobe Levels		-15 dB	
Return Loss		12 dB	
Cross Polarization	20 dB	25 dB	
Power Handling			5 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

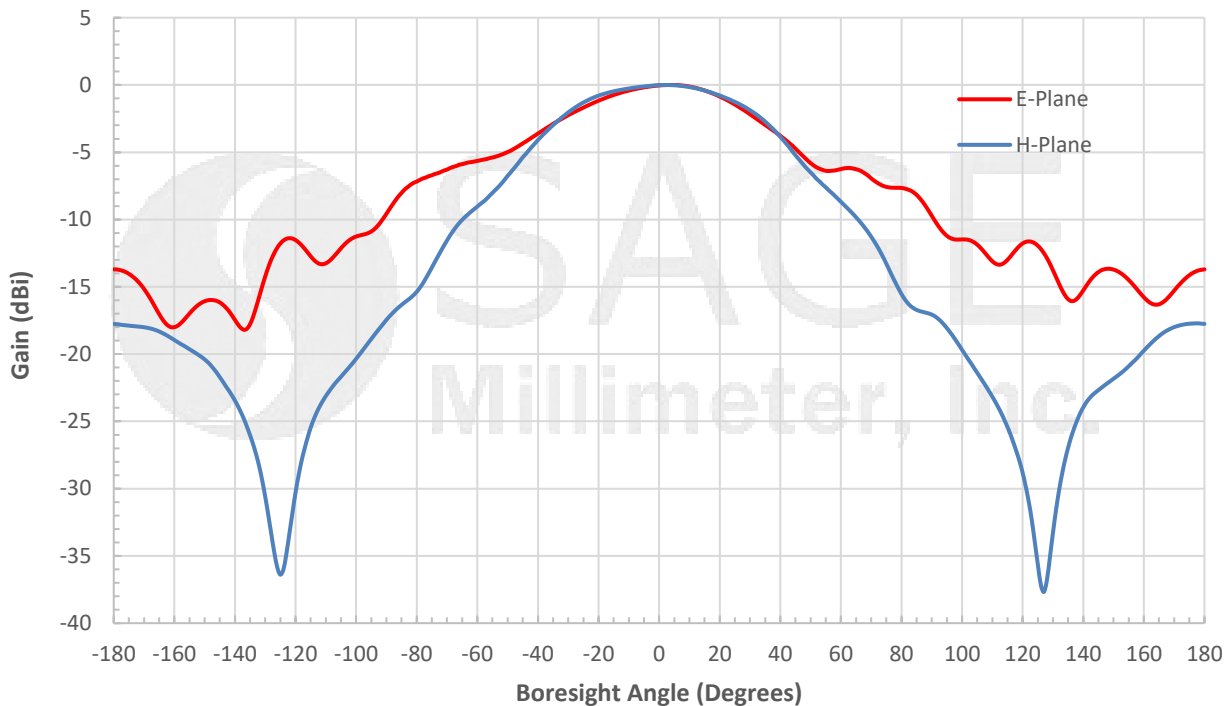
Item	Specification
Antenna Port	V(F)
Mounting	M3 Screw and Mounting Plate
Material	Aluminum
Antenna Finish	Yellow Chem Film, Black Paint
Weight	1.8 Oz
Size	1.91" (L) X 1.28" (W) X 1.26" (H)
Outline	AV-C15-DR-RS1



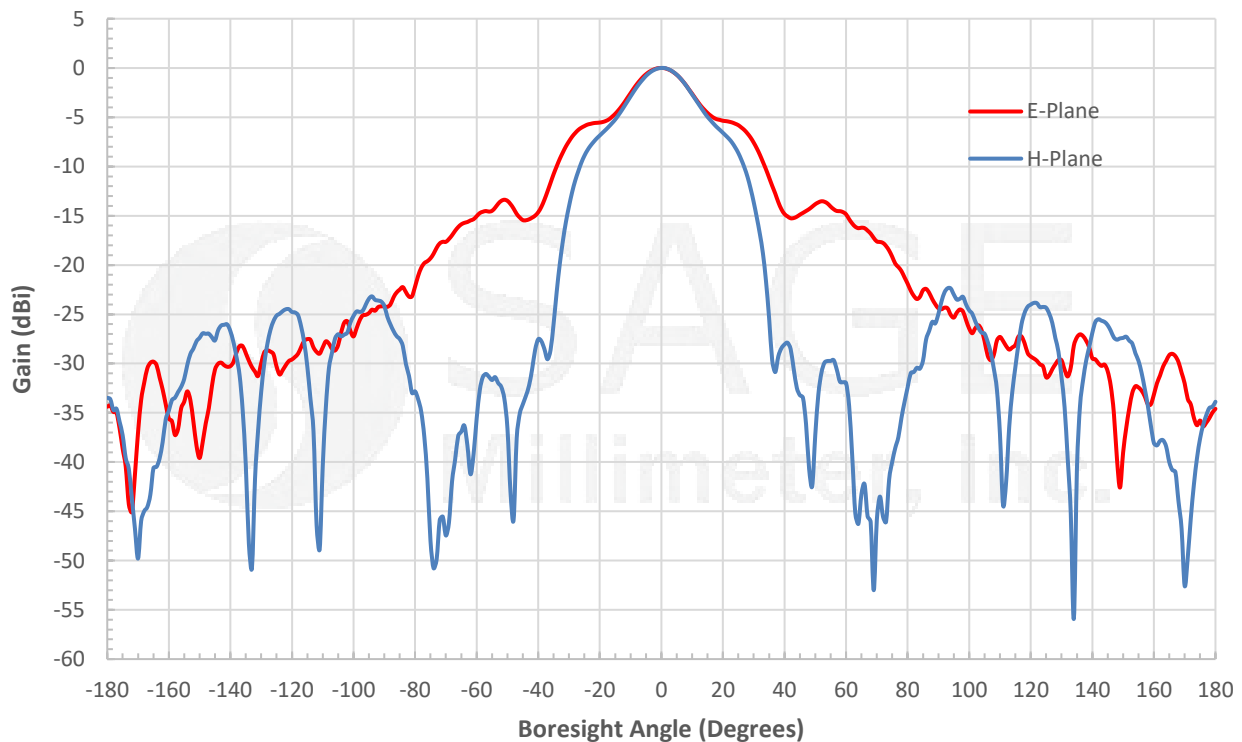


Dual-Ridged Horn Antenna, 6 to 67 GHz

Typical Antenna Pattern @ 6 GHz



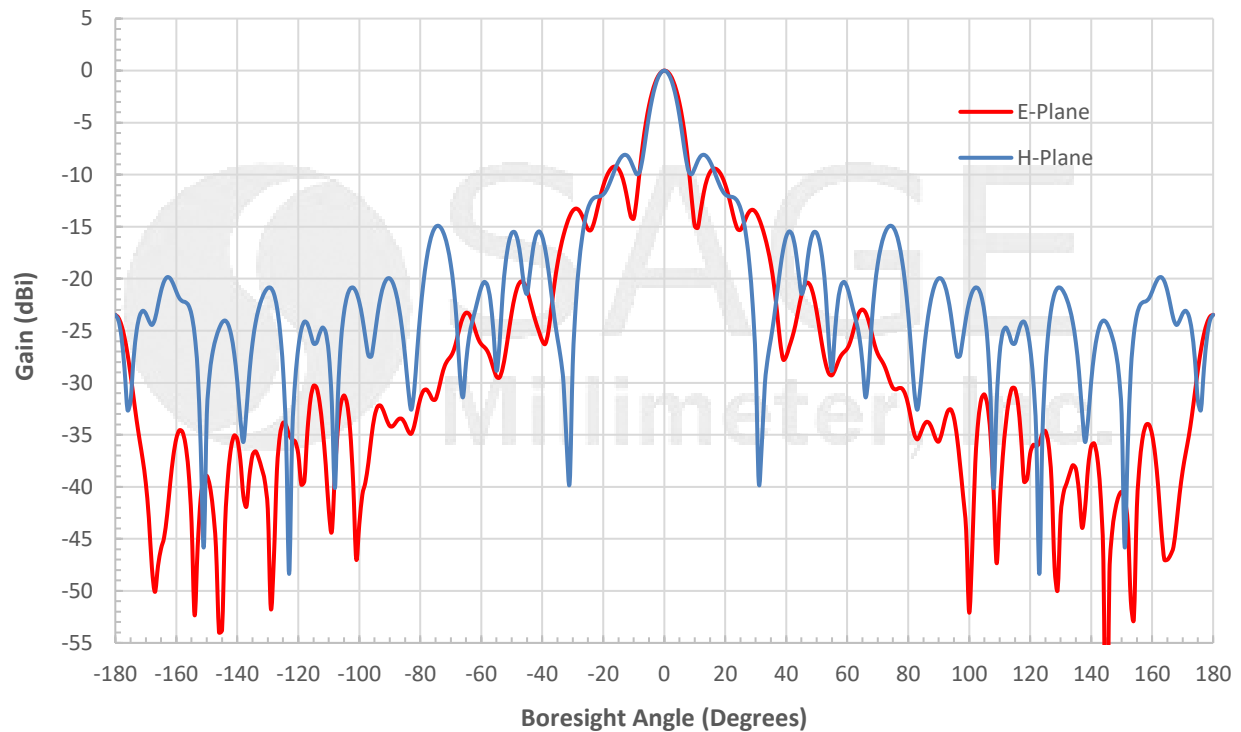
Typical Antenna Pattern @ 36.5 GHz



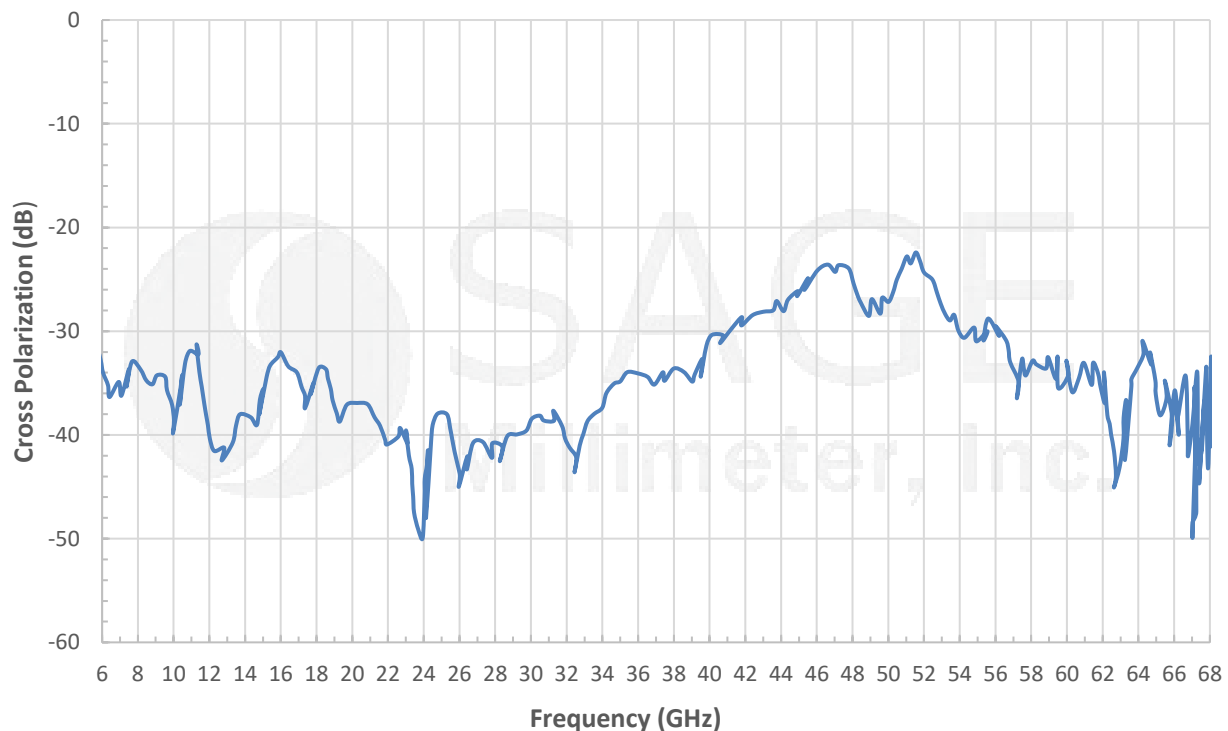


Dual-Ridged Horn Antenna, 6 to 67 GHz

Typical Antenna Pattern @ 67 GHz



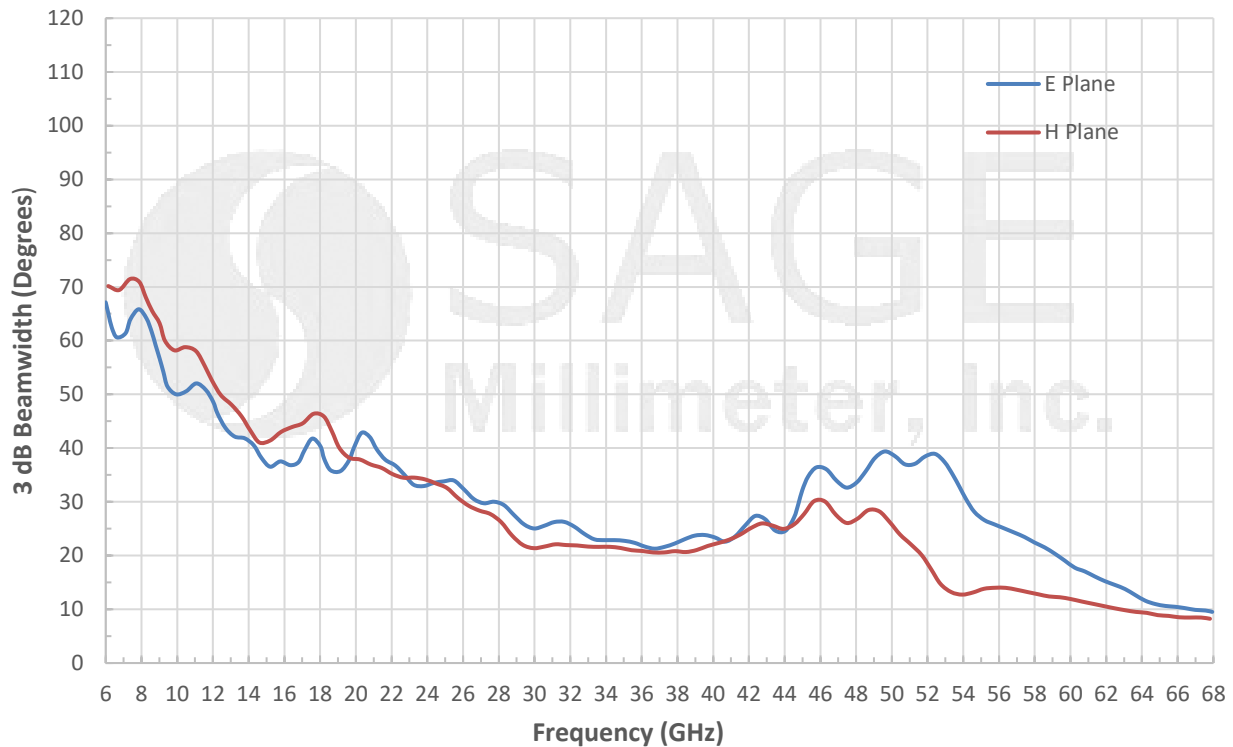
Typical Cross Polarization vs Frequency



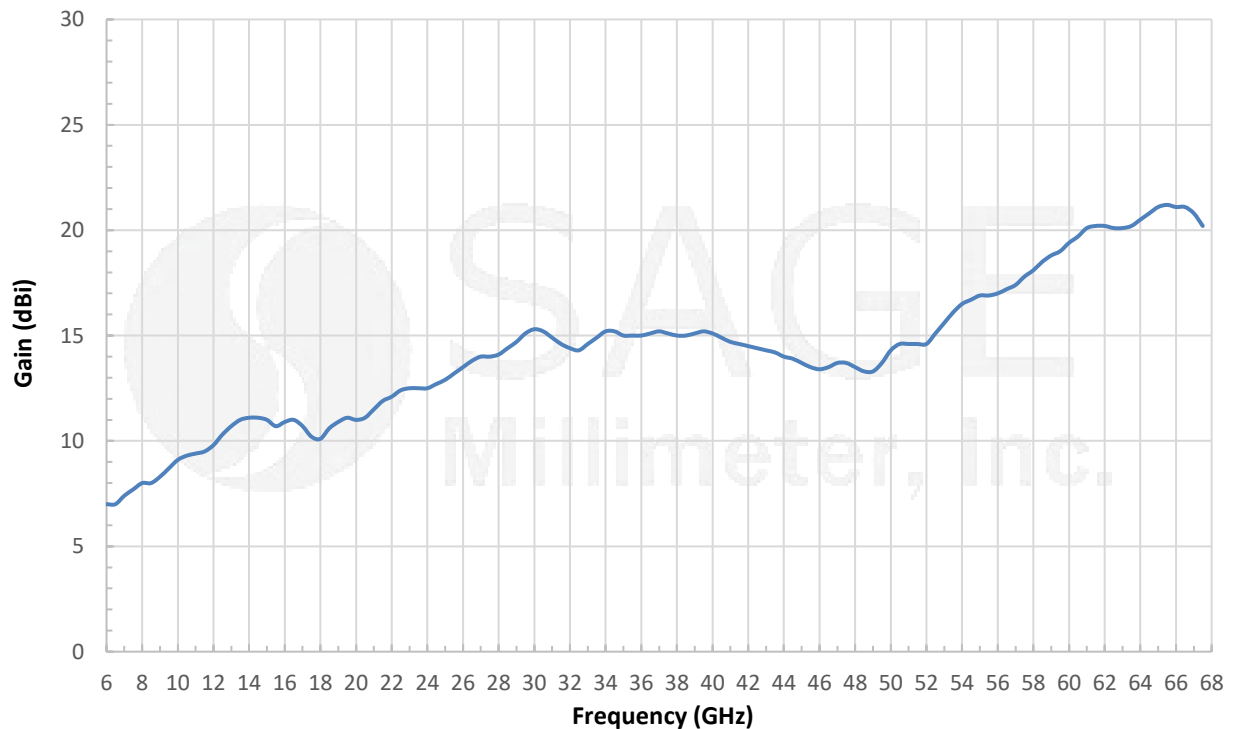


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Typical 3 dB Beamwidth vs Frequency



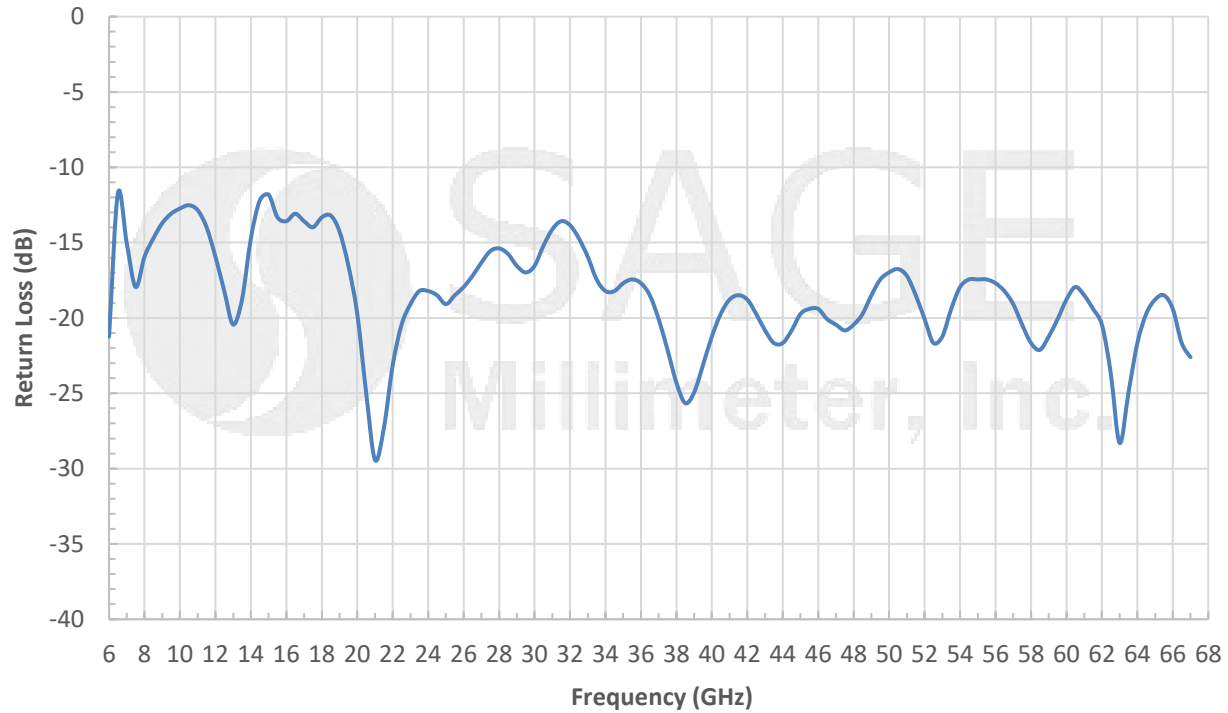
Typical Gain vs. Frequency



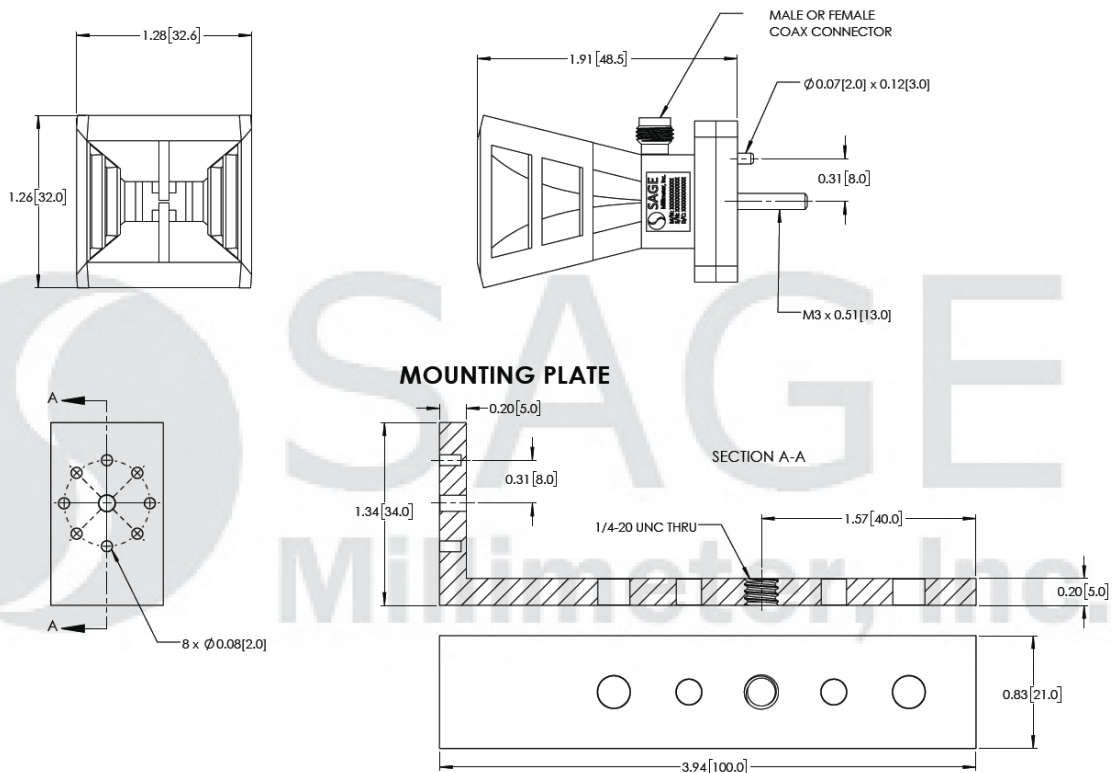


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Typical Return Loss vs. Frequency



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



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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C room temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the structure will cause performance degradation and possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

