

SAF-2633331725-315-S1

Ka Band Scalar Feed Horn Antenna, 26 to 33 GHz, 17 dBi Gain

SAF-2633331725-315-S1 is a Ka band scalar feed horn antenna that operates from 26 to 33 GHz. The antenna offers a 17 dBi nominal gain, 25 degree typical half power beamwidth, and -28.5 dB typical side lobe level. The scalar feed horn is equipped with a 0.315" diameter circular waveguide that supports both linear and circular polarization. A rectangular waveguide port configuration that only supports linear polarization is available under a different model number.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	26 GHz	29.5 GHz	33 GHz
Gain		17 dBi	
3 dB Beamwidth, E-plane		25°	
3 dB Beamwidth, H-plane		25°	
Sidelobes, E-plane		-28.5 dB	
Sidelobes, H-plane		-28.5 dB	
Return Loss		20 dB	
Polarization		Linear & Circular	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	0.315" Diameter Circular Waveguide with UG-599/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	2.5 Oz
Outline	AF-CA17-315

ECCN

EAR99

FEATURES

- Circular Waveguide Interface
- Precisely Machined
- Low Sidelobe Levels
- High Return Loss
- Linear & Circular Polarization

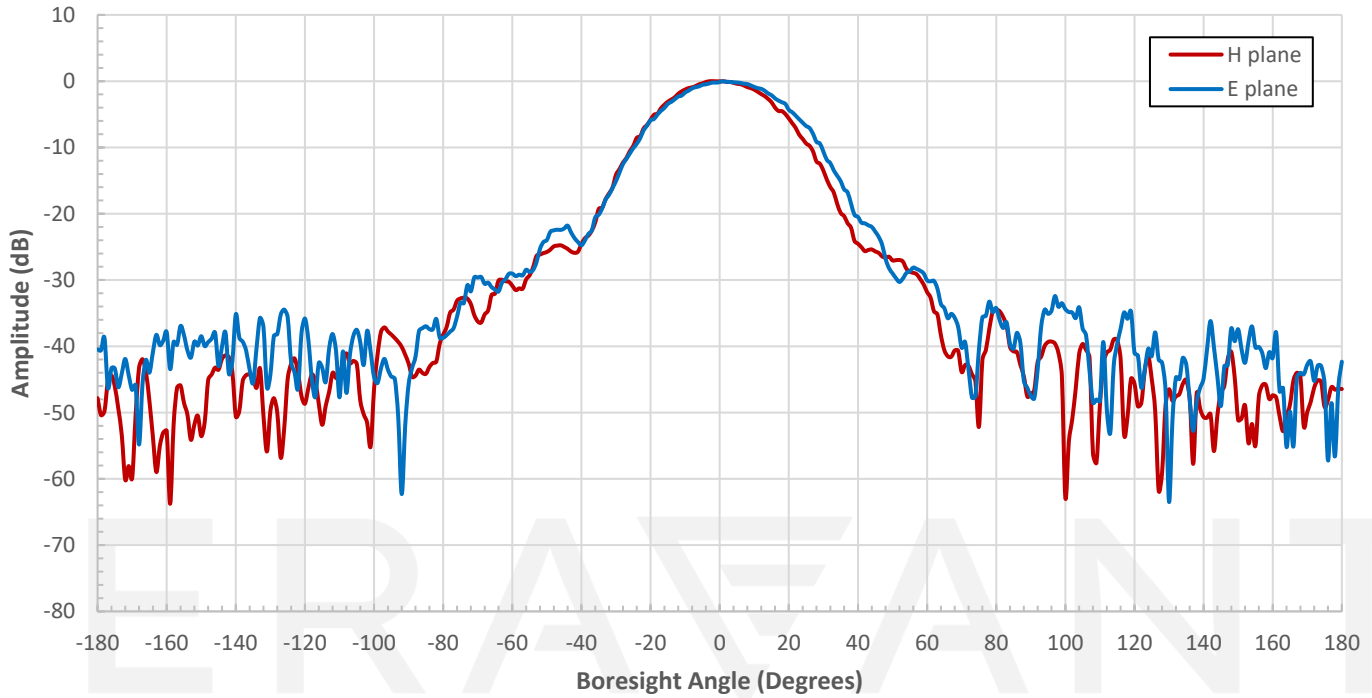
APPLICATIONS

- Feed Horn for Gaussian Optical Antennas
- Feed Horn for Cassegrain Antennas
- Rapid System Setups
- Engineering Setups

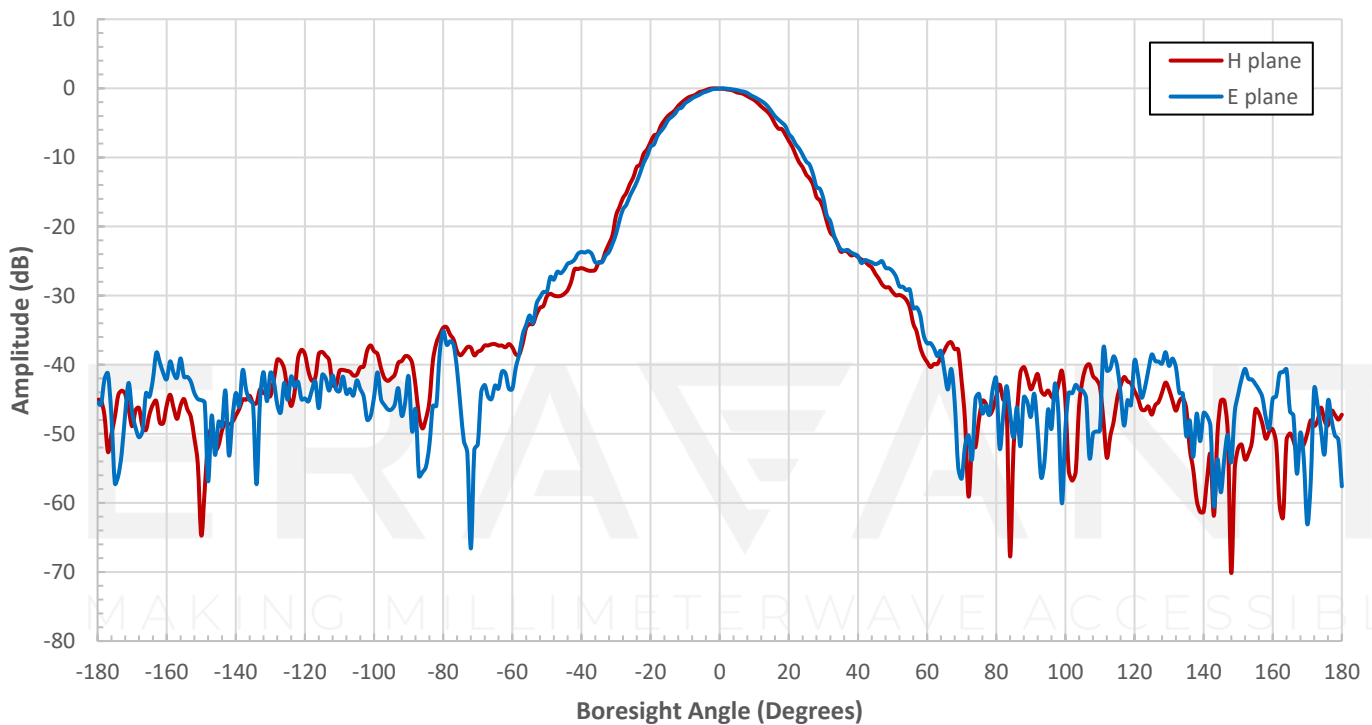
SUPPLEMENTAL DETAILS



Measured Pattern @ 26 GHz

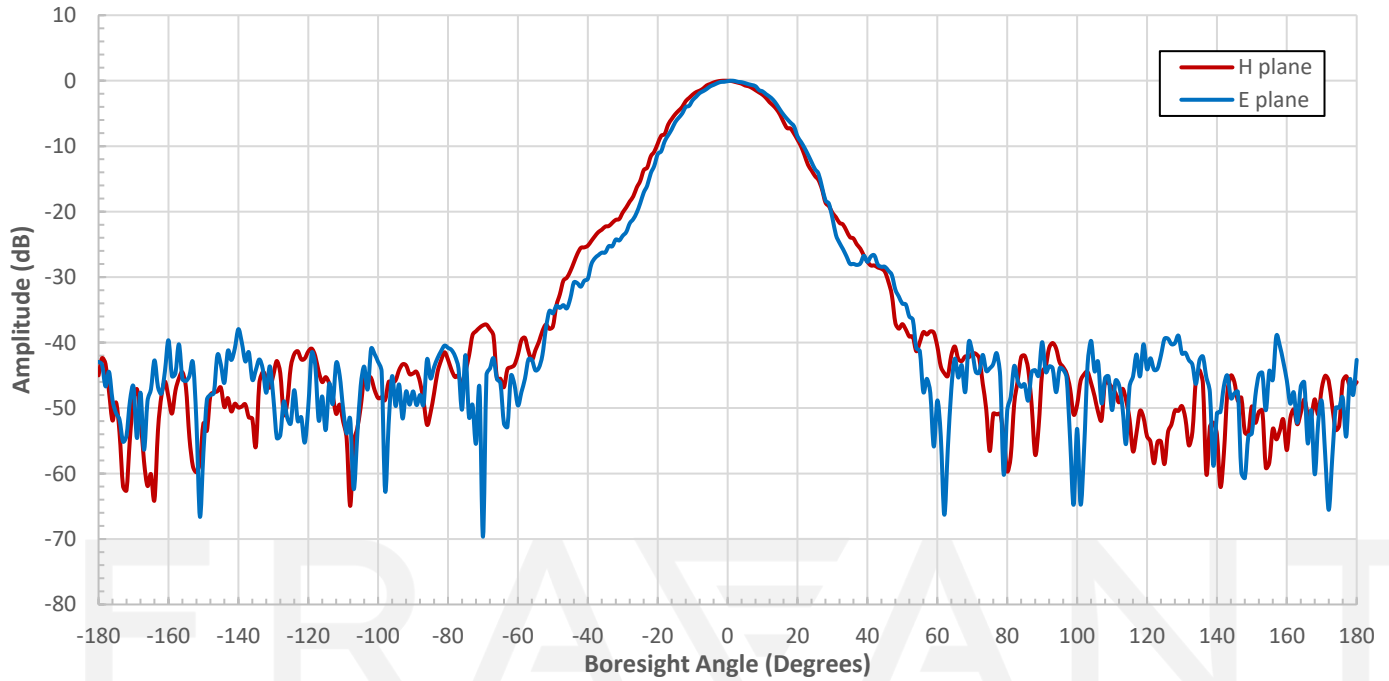


Measured Pattern @ 29.5 GHz

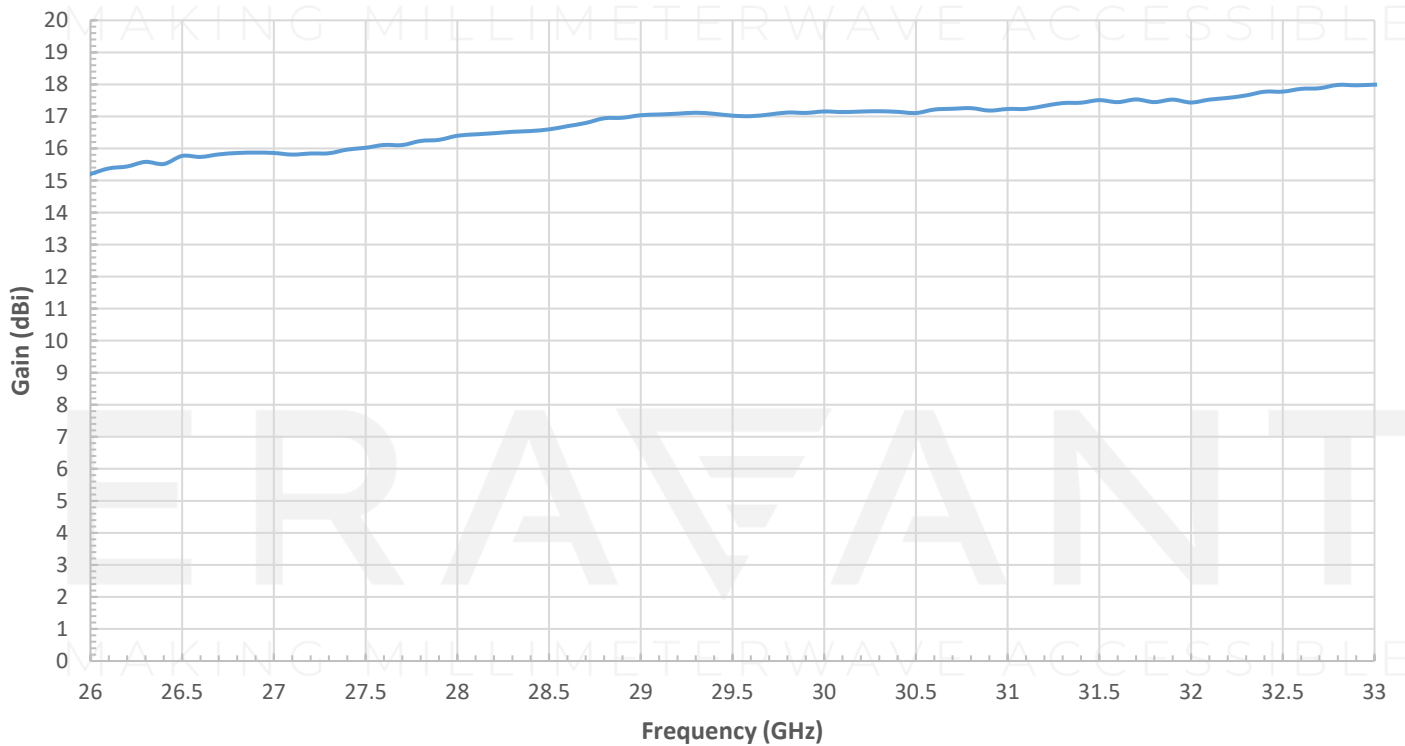


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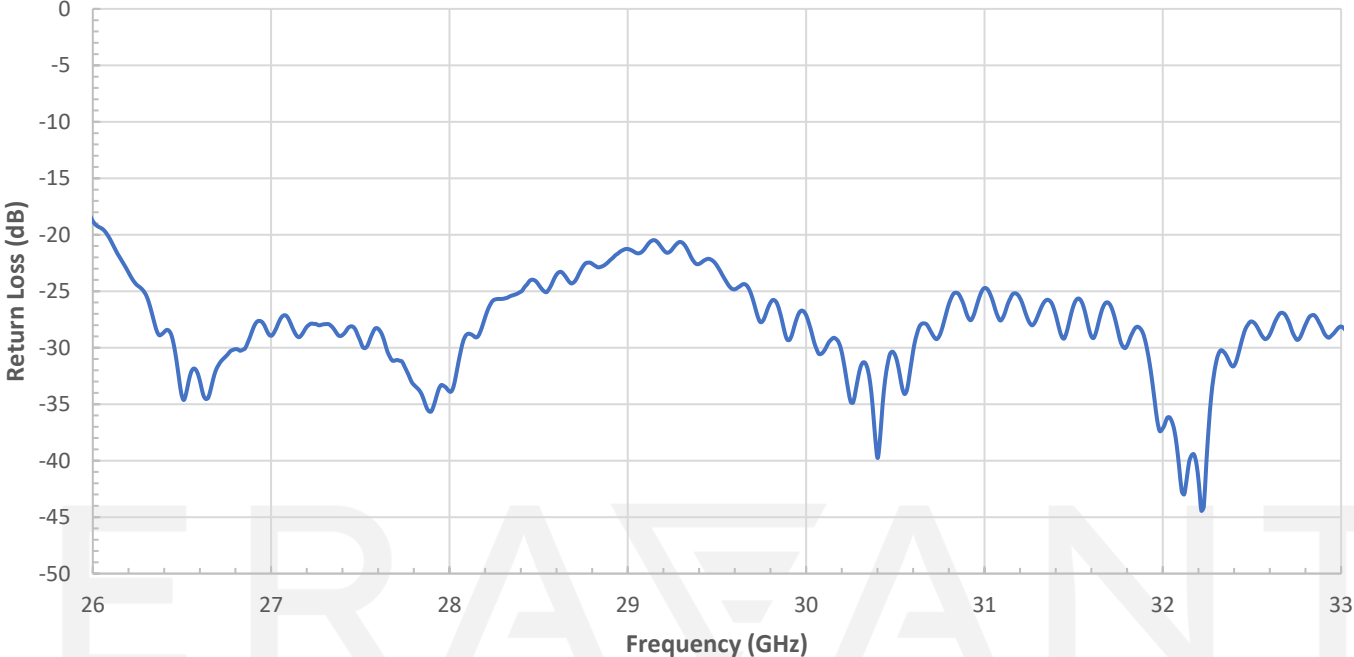
Measured Pattern @ 33 GHz



Measured Gain vs Frequency

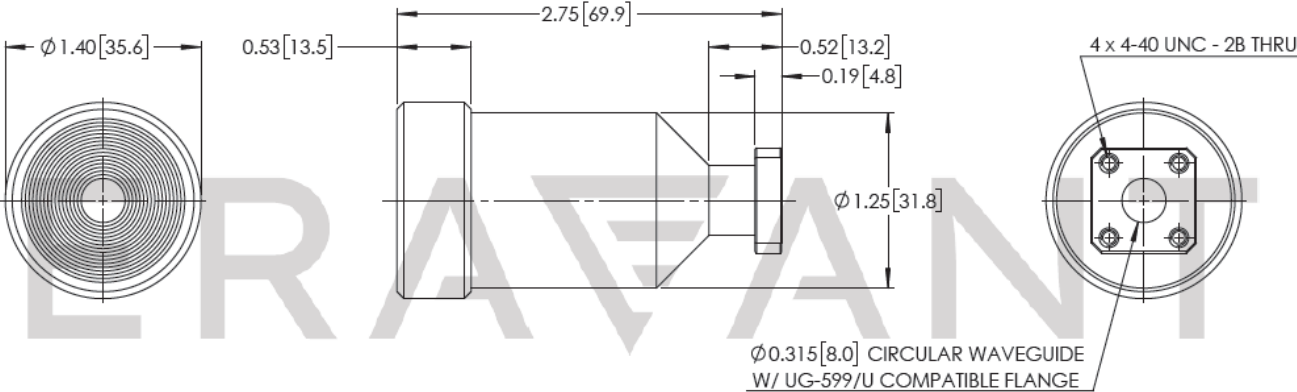


Measured Return Loss vs. Frequency



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



NOTE:

- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

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

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