

SAF-2234431535-328-S1

Ka Band Scalar Feed Horn Antenna, 22 to 44 GHz, 15 dBi Gain

SAF-2234431535-328-S1 is a Ka-band scalar feed horn antenna that operates from 22 to 44 GHz. The antenna offers a 15 dBi nominal gain, 35 degree typical half power beamwidth. The nominal side lobe levels are -25 dB or lower. The scalar feed horn is equipped with a Ø 0.328" circular waveguide with UG-599/U compatible flange that supports both linear and circular polarized waveforms. 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	22 GHz	33 GHz	44 GHz
Gain		15 dBi	
3 dB Beamwidth, E-plane		35°	
3 dB Beamwidth, H-plane		35°	
Sidelobes, E-plane		-25 dB	
Sidelobes, H-plane		-25 dB	
Return Loss		10 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	Ø 0.328" Circular Waveguide with UG-599/U Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	2.65 Oz
Outline	AF-CA15-328

ECCN

EAR99

FEATURES

- Ultra-Broadband Operation
- Low Sidelobe Levels
- High Return Loss
- Linear & Circular Polarization

APPLICATIONS

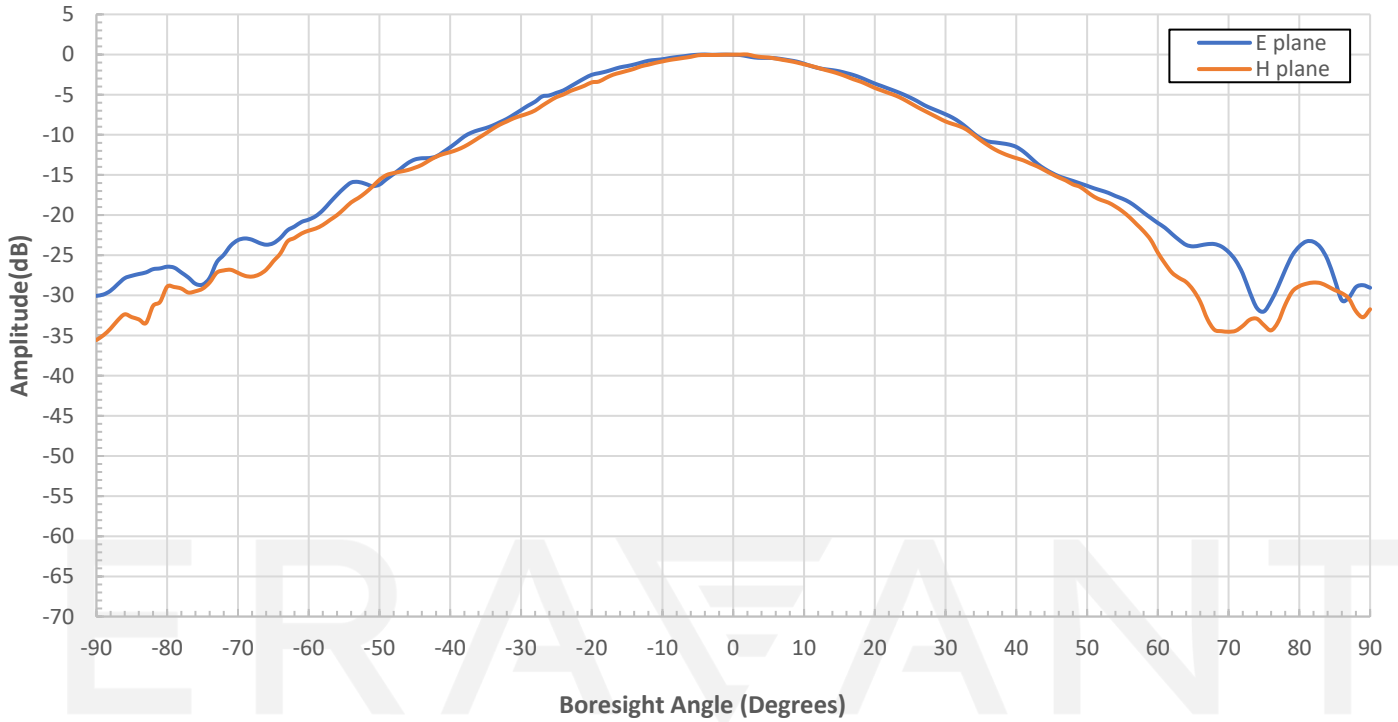
- 5G Systems
- Feed Horn for Cassegrain Antennas
- Rapid System Setups
- Antenna Range Setups

SUPPLEMENTAL DETAILS

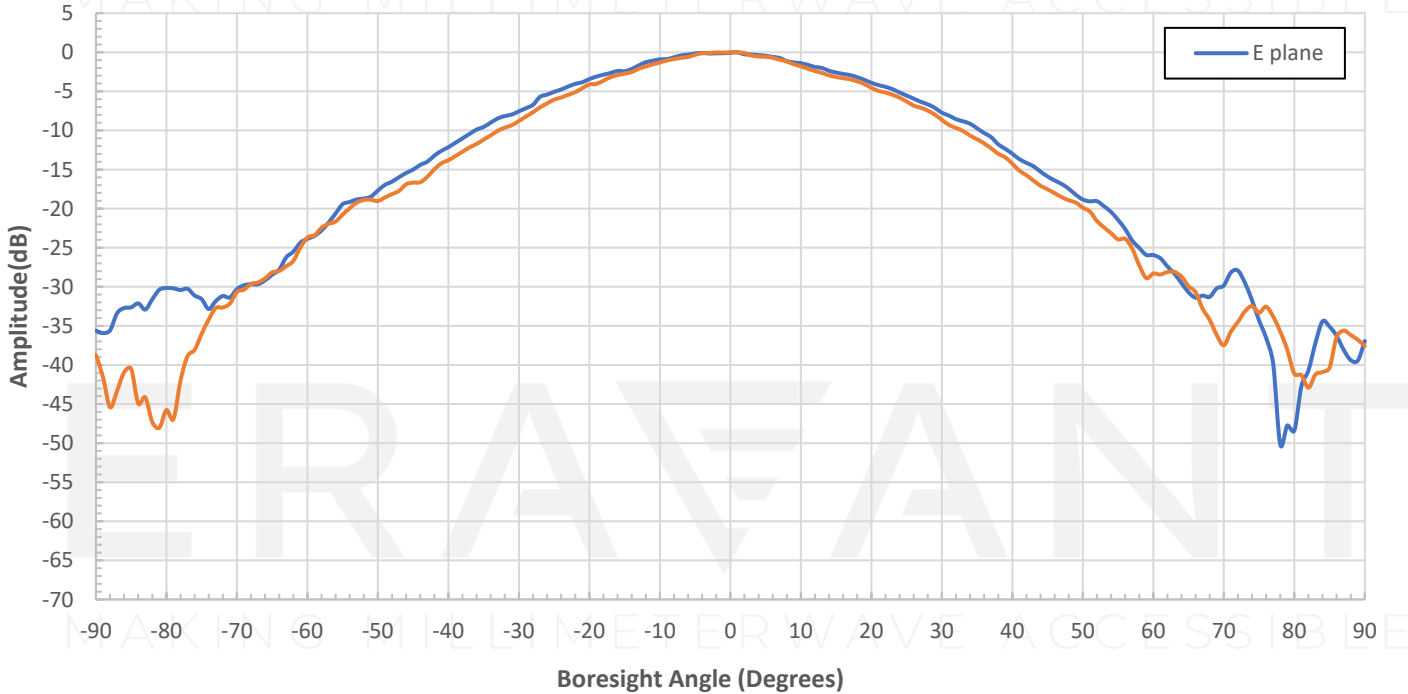


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Measured Patterns at 22 GHz

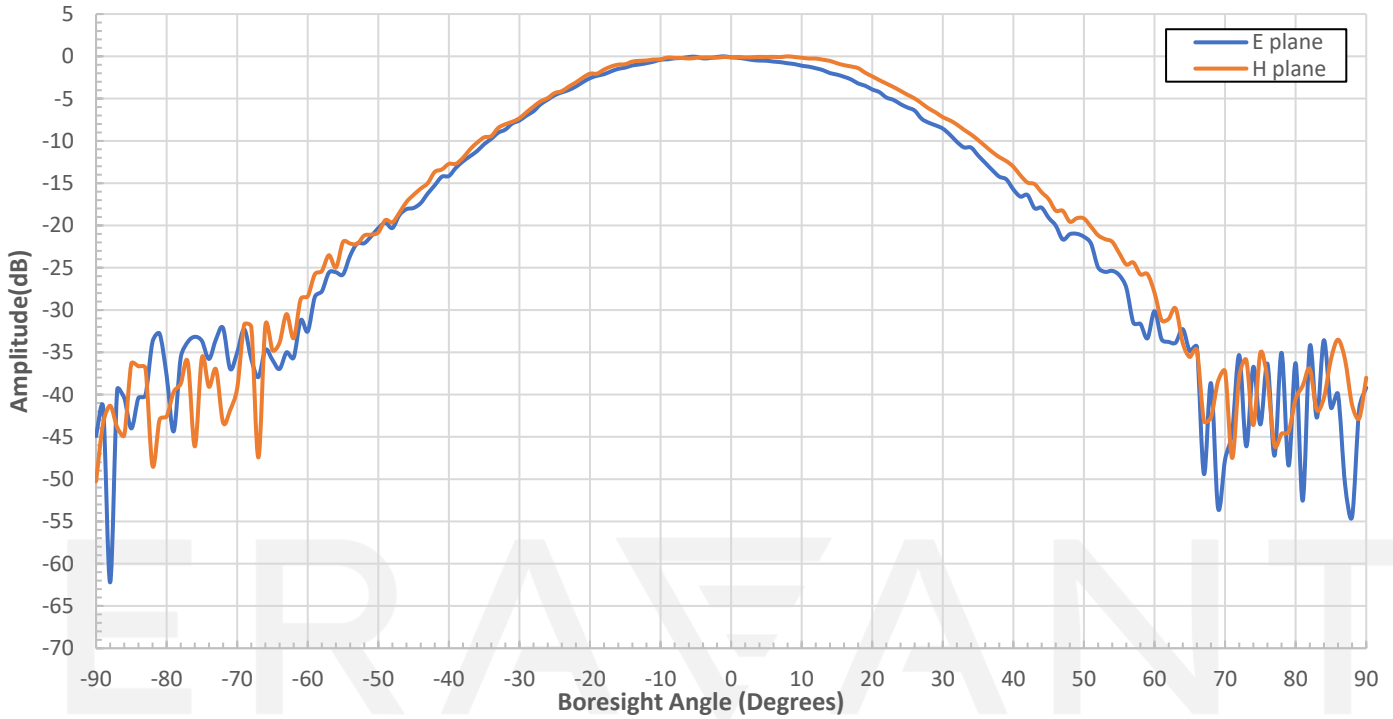


Measured Patterns at 33 GHz

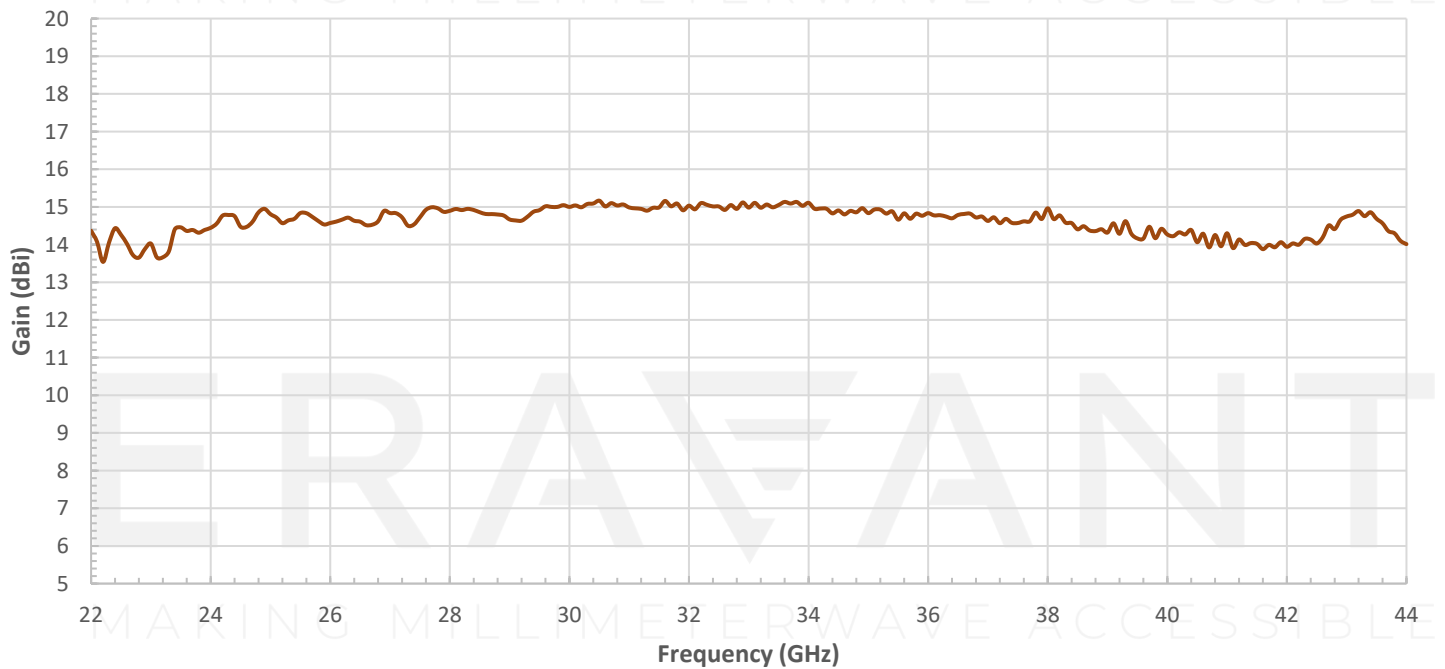


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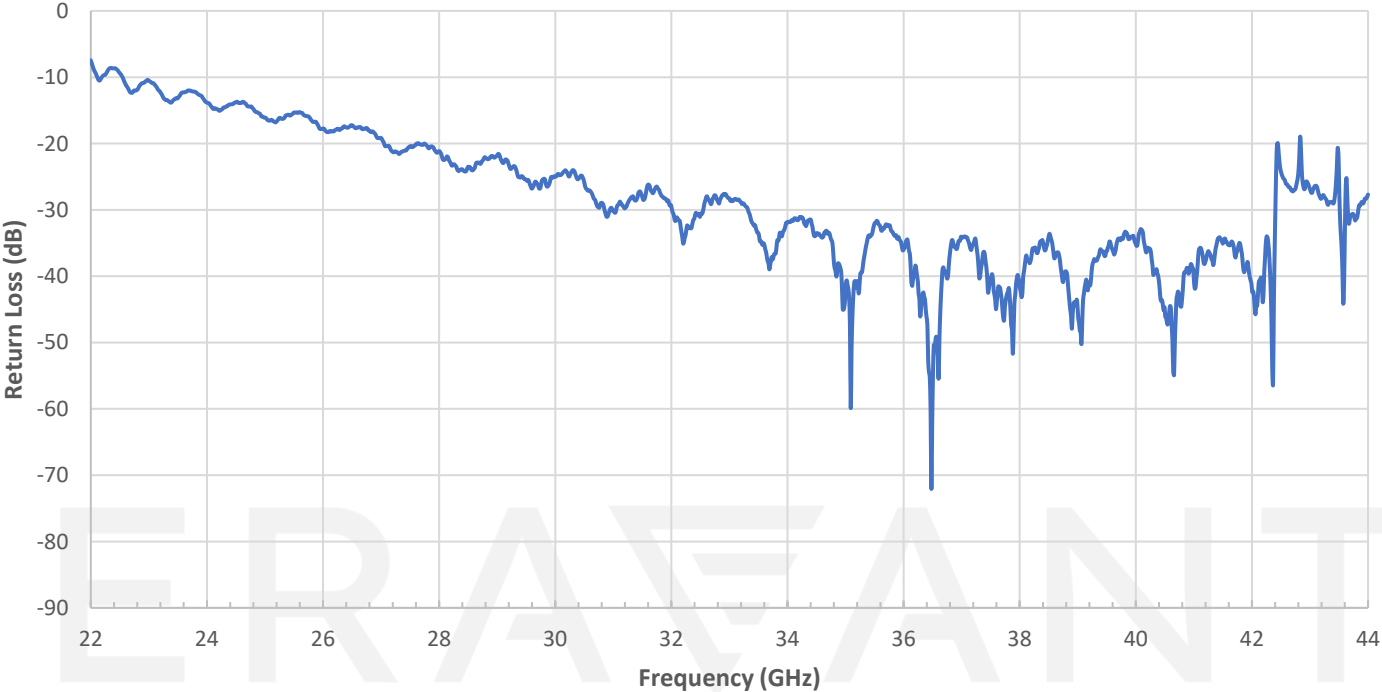
Measured Patterns at 44 GHz



Measured Gain vs Frequency

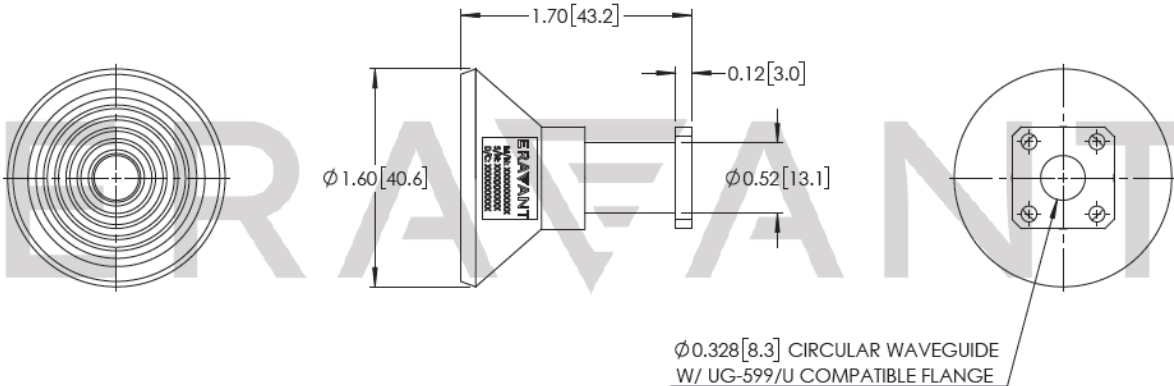


Measured Return Loss vs. Frequency



MAKING MILLIMETERWAVE ACCESSIBLE

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.
- All testing was performed under +25°C room temperature.
- 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.

