

SAS-283-39634-F1

WR-34 Linear to Circular Polarizer, 22 to 33 GHz

SAS-283-39634-F1 is a 3 band, linear to circular polarizer that operates from 22 GHz to 33 GHz. The polarizer offers a typical insertion loss of 0.5 dB, typical axial ratio of 1.2 dB, and a typical return loss of 20 dB. The polarizer is fixed and can be used for either right-handed or left-handed polarization based on the direction of the input signal. The polarizer is often combined with Eravant's rectangular to circular waveguide transition (SWT-34396-SB).



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	22 GHz		33 GHz
Insertion Loss		0.5 dB	
Axial Ratio		1.2	
Return Loss		20 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	Ø0.396" Circular Waveguide with UG-1530/U Flange
Material	Brass
Finish	Gold Plated
Weight	0.6 Oz
Outline	AS-F3F-396

ECCN

EAR99

FEATURES

- Full band Coverage
- Compact Size
- Good Axial Ratio
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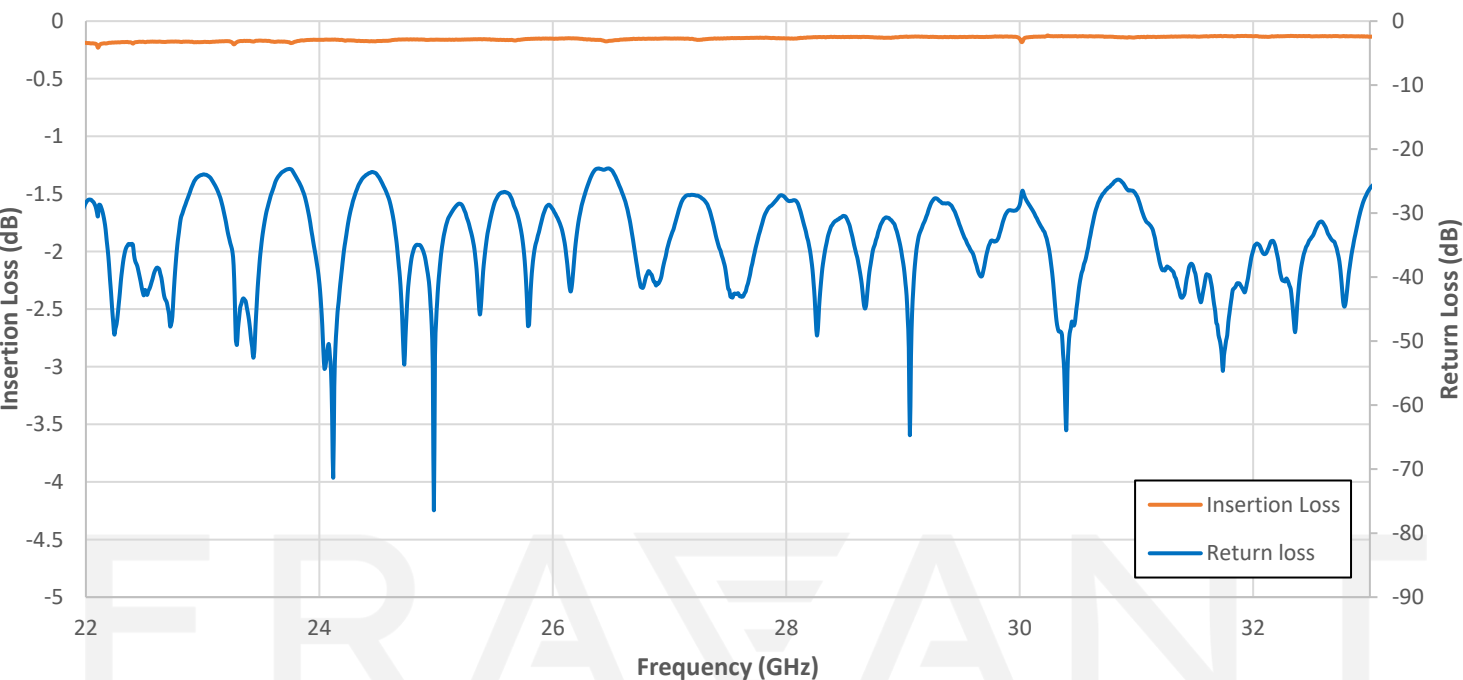
APPLICATIONS

- Antenna Ranges
- Waveguide Polarization selection
- Communication systems

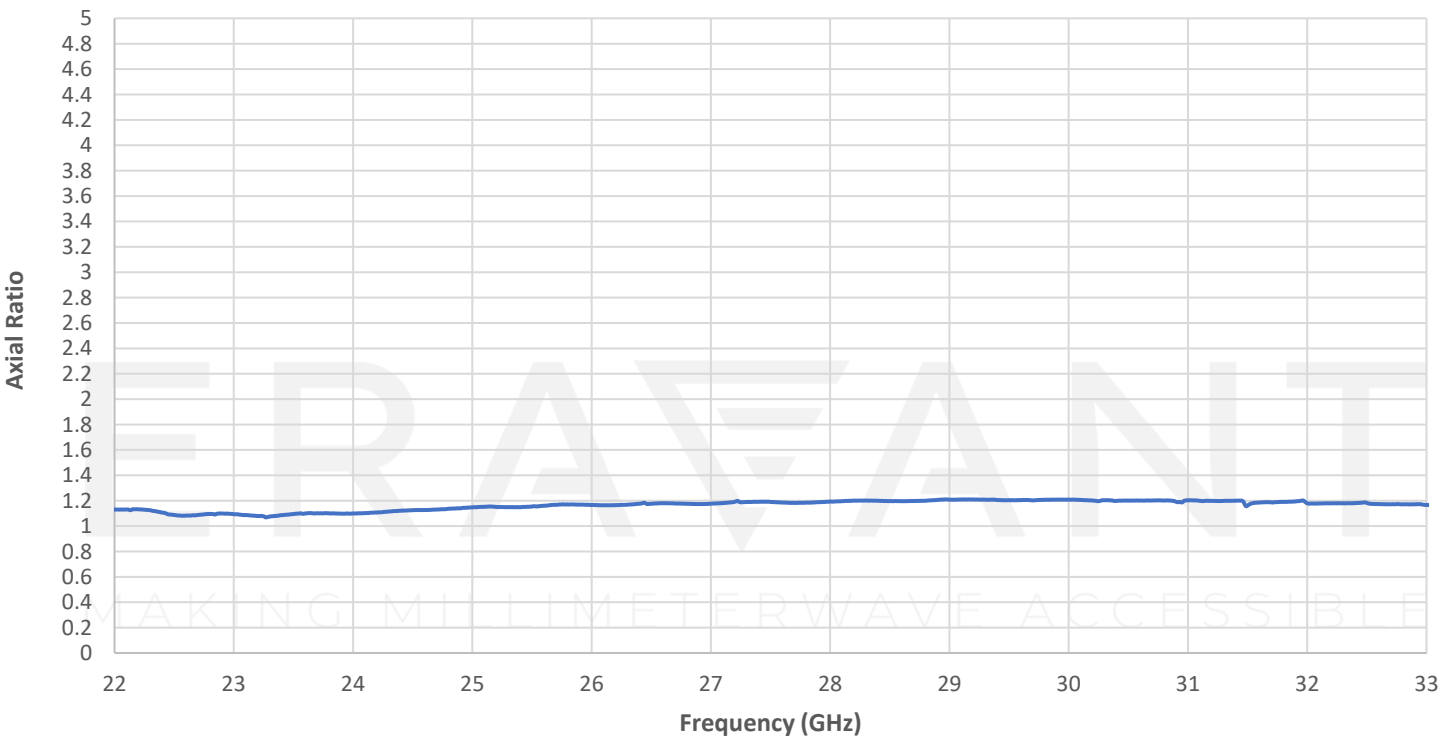
SUPPLEMENTAL DETAILS



Measured Insertion Loss, Return Loss Vs Frequency



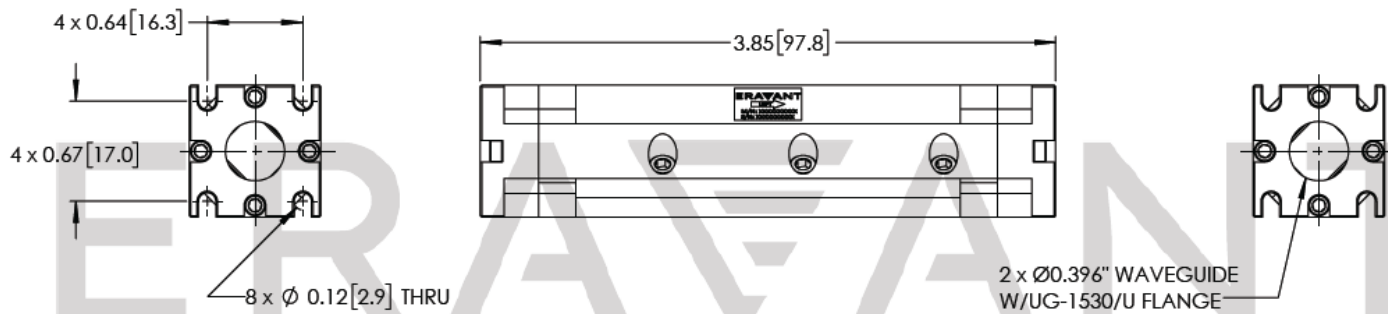
Measured Axial Ratio Vs Frequency



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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. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

Any foreign objects in the waveguide will cause performance degradation.