

SAS-793-12512-F1-2

E-Band Circular Polarizer, 71-86 GHz

SAS-793-12512-F1-2 is an E-Band polarizer that covers the frequency range from 71 to 86 GHz. The polarizer offers a typical insertion loss of 0.5 dB, typical axial ratio of 0.5 dB, and a typical return loss of 25 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	71 GHz		86 GHz
Insertion Loss		0.5 dB	
Axial Ratio		0.5 dB	
Return Loss		25 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	Ø0.125" Waveguide W/ UG-387/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Clear chem film
Outline	AS-FEN-125-A

ECCN

EAR99

FEATURES

- Low Insertion Loss
- Low Axial Ratio

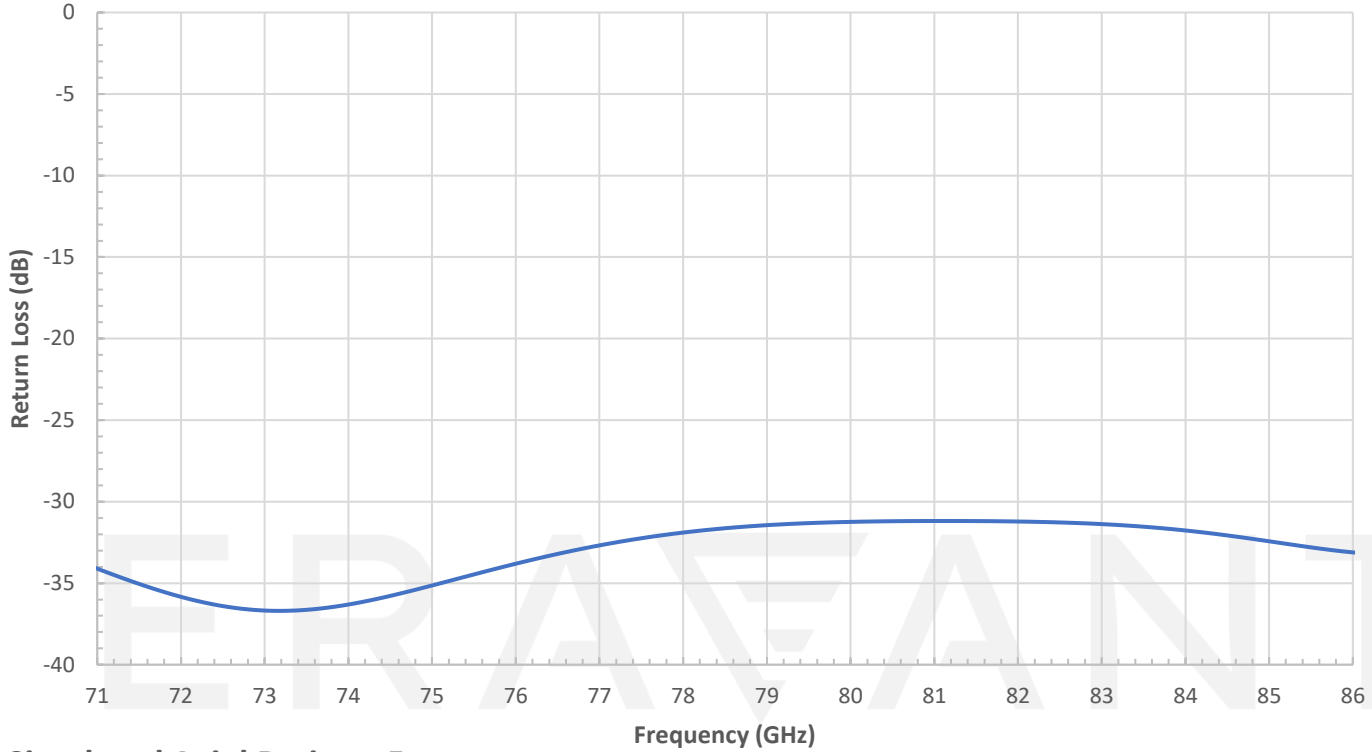
APPLICATIONS

- Waveguide Polarization Selection
- Communication Systems

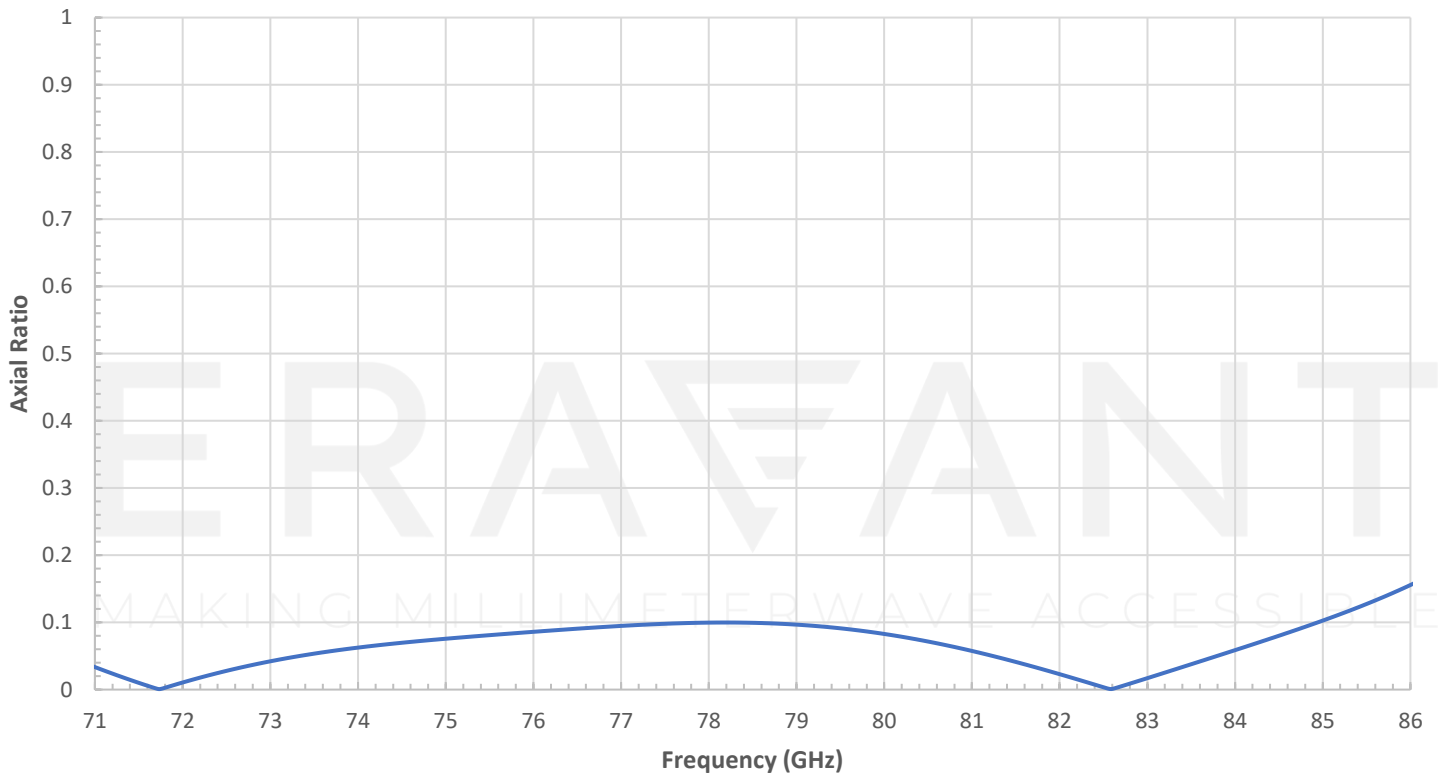
SUPPLEMENTAL DETAILS



Simulated Return Loss vs Frequency

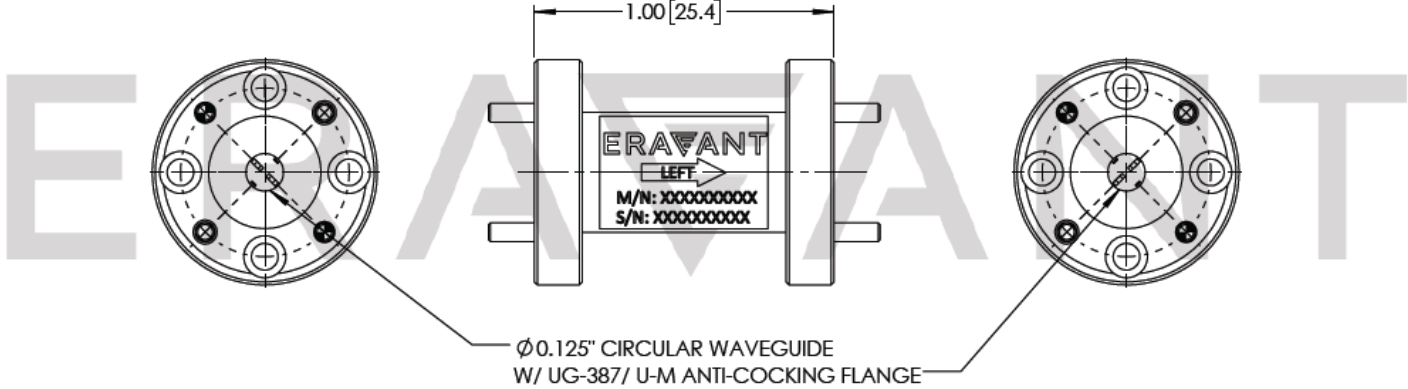


Simulated Axial Ratio vs Frequency



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.