

## Full WR-34 Waveguide Junction Isolator, High Power Handling

### Description:

**Model SNF-34-I5-H** is a WR-34, waveguide junction isolator that covers the frequency range of 22 to 33 GHz. The full band isolator is designed and manufactured to provide a low insertion loss of 0.45 dB typical with good flatness. The isolator also offers a moderate isolation of 18 dB for system integration and a high power handling. The input and output ports are WR-34 waveguides with UG-1530/U flanges.



### Features:

- Full Waveguide Band Operation
- Low Insertion Loss
- Moderate Isolation

### Applications:

- Port Isolation
- Instrumentation
- Module Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	22 GHz		33 GHz
Insertion Loss		0.45 dB	
Isolation		18 dB	
Return Loss		18 dB	
Forward Power Handling			25 W (CW)
Reverse Power Handling			25 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-25°C		+60°C

### Mechanical Specifications:

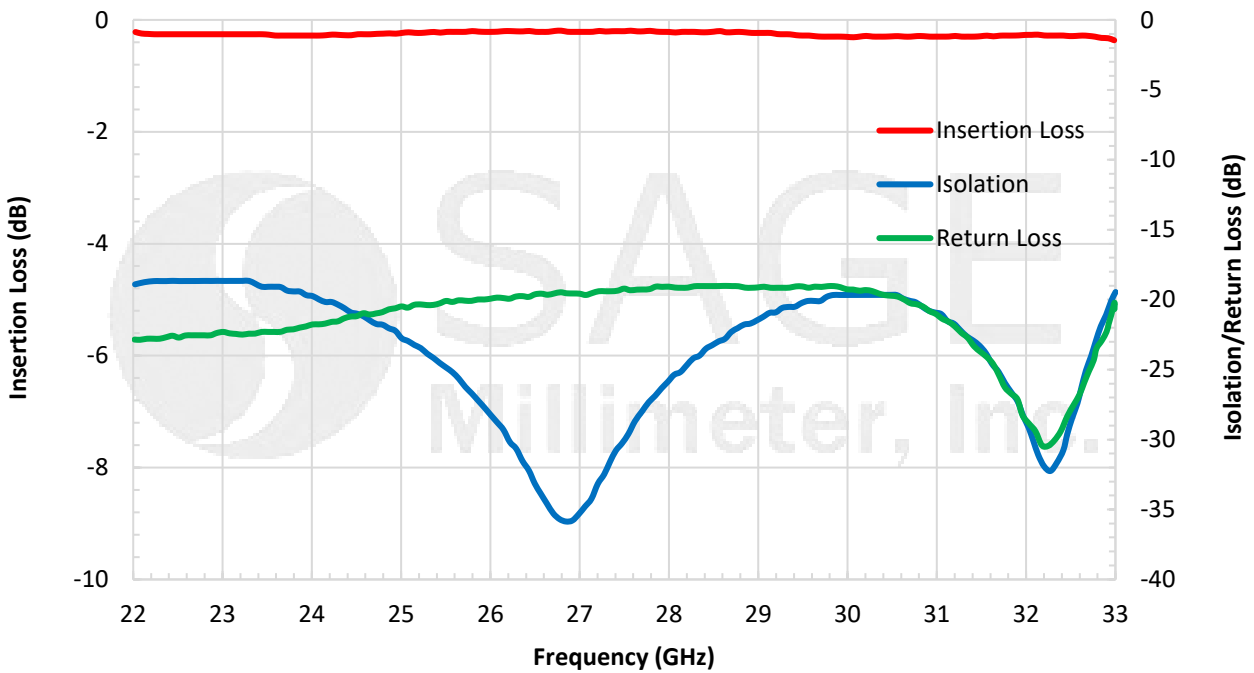
Item	Specification
RF Input and Output	WR-34 Waveguide with UG-1530/U Flange
Body Material	Aluminum Alloy
Finish	Chem Film
Weight	3.7 Oz
Size	1.18" (W) x 1.18" (L) x 2.24" (H)
Outline	NF-I3-DB1-H



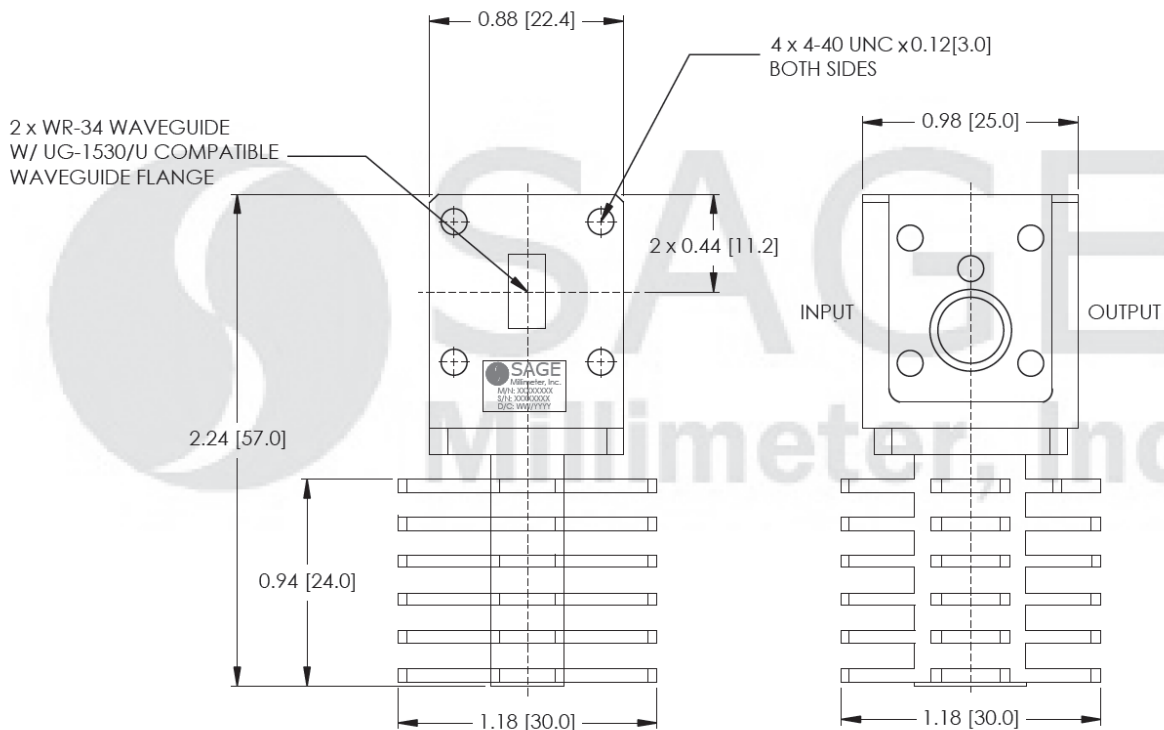


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### Typical Performance vs. Frequency



**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 slightly.
- All testing was performed under +25°C case temperature.
- Other mechanical configurations are available under different model numbers.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

### Caution:

- Exceeding absolute maximum ratings will damage the device.
- The device is magnetic field sensitive. Always keep magnetic fields a minimum of 6 inches away.
- Any foreign objects in the waveguide will either degrade the performance or destroy the device.

