

## Q Band Waveguide Junction Isolator, 33 to 50 GHz

### Description:

**Model SNF-22-IA** is a full Q band, waveguide junction isolator that covers the frequency range of 33 to 50 GHz. The full waveguide band isolator is designed and manufactured to provide a low insertion loss of 0.6 dB with good flatness. The circulator also offers a moderate isolation of 12 dB for system integration. The input and output ports are WR-22 waveguides with UG-383/U anti-cocking flanges.



### Features:

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

### Applications:

- Port Isolation
- Instrumentation
- Module Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	33 GHz		50 GHz
Insertion Loss		0.6 dB	1.0 dB
Isolation		12 dB	
Return Loss		12 dB	
Forward Power Handling			5 W (CW)
Reverse Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

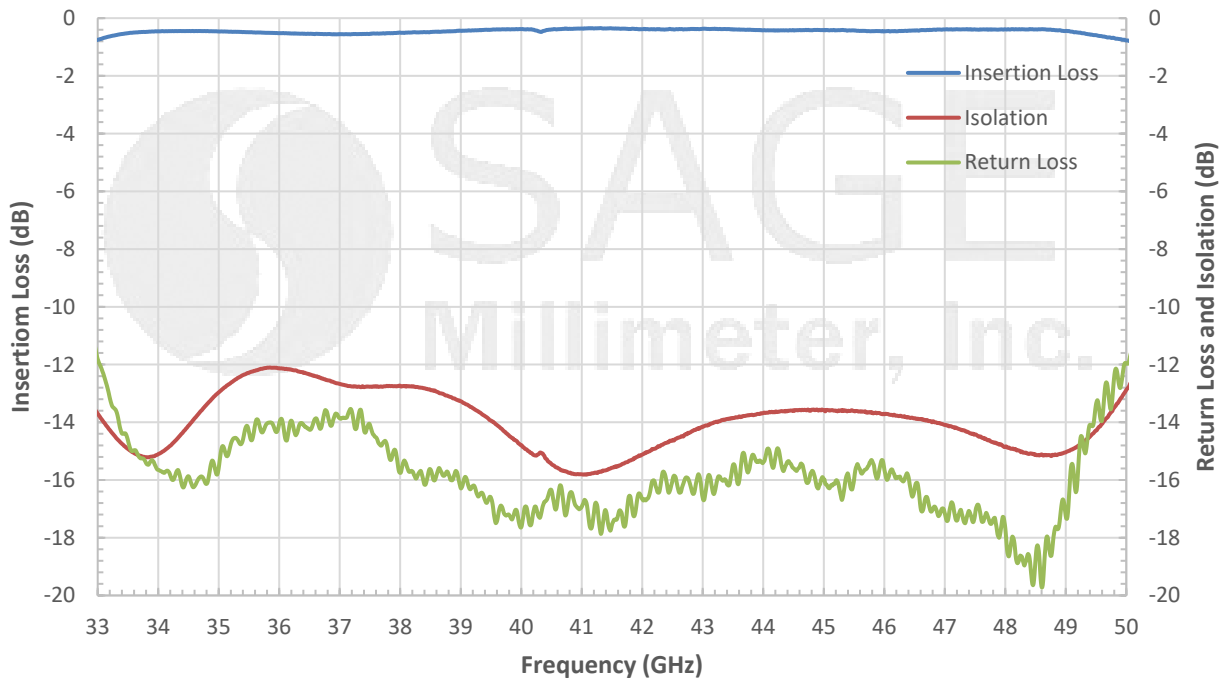
### Mechanical Specifications:

Item	Specification
RF Input and Output	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Body Material	Aluminum
Finish	Gold Plated and Black Anodized
Size	1.20" (W) x 1.0" (L) x 1.20" (H)
Outline	NW-IQ-A

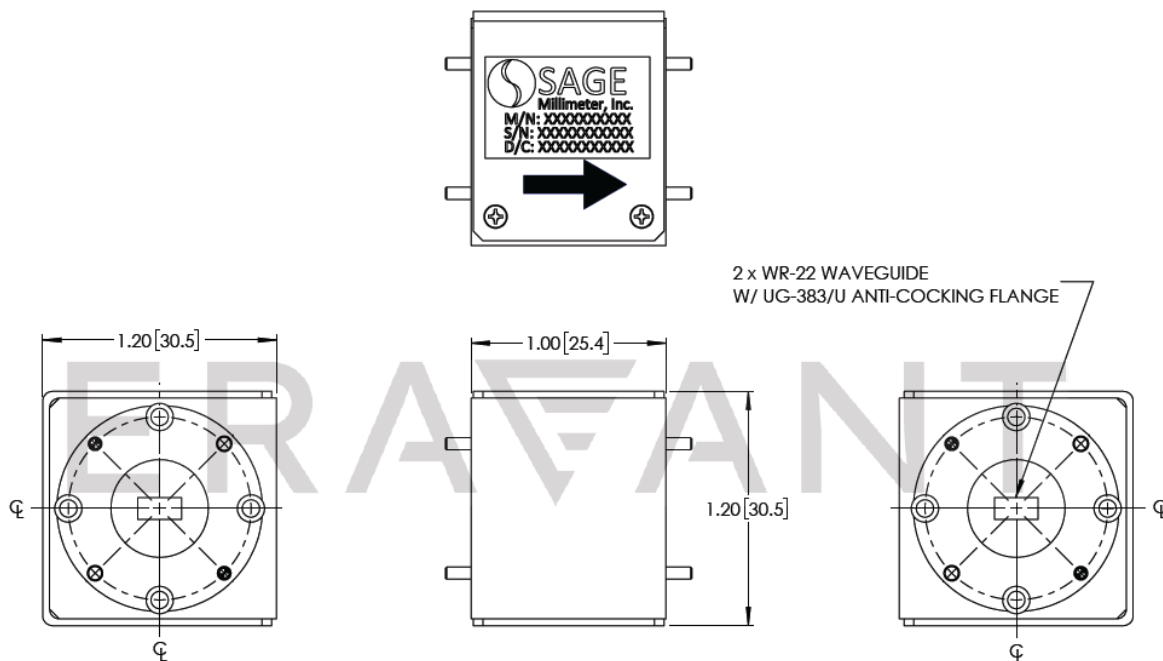


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### Typical Performance vs. Frequency



**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.
- Eravant reserves the right to change the information presented without notice.

### Caution:

- Exceeding absolute maximum ratings will damage the device.
- This device is magnetic sensitive. Keep the device at least 6" away from magnetic fields.
- Any foreign objects in the waveguide will degrade the performance and/or damage the device.

