



K Band Waveguide Junction Circulator, 22 to 26.5 GHz

Description:

Model SNW-2232730318-42-CI is a K band waveguide junction circulator that covers the frequency range of 22 to 26.5 GHz. The waveguide junction circulator is designed and manufactured to provide a low insertion loss of 0.3 dB nominal, a typical isolation of 18 dB, and a much shorter insertion length for system integration. The input and output ports are WR-42 waveguides with UG-595/U flanges. The circulator implements a U-shaped magnet shielding steel cover to protect it from magnetic field interference.



Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration
- Magnetic Shield

Applications:

- Radar Systems
- Module Integration
- Port Isolation

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	22.0 GHz		26.5 GHz
Insertion Loss		0.3 dB	
Isolation		18 dB	
Return Loss		17 dB	
Power Handling			2 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

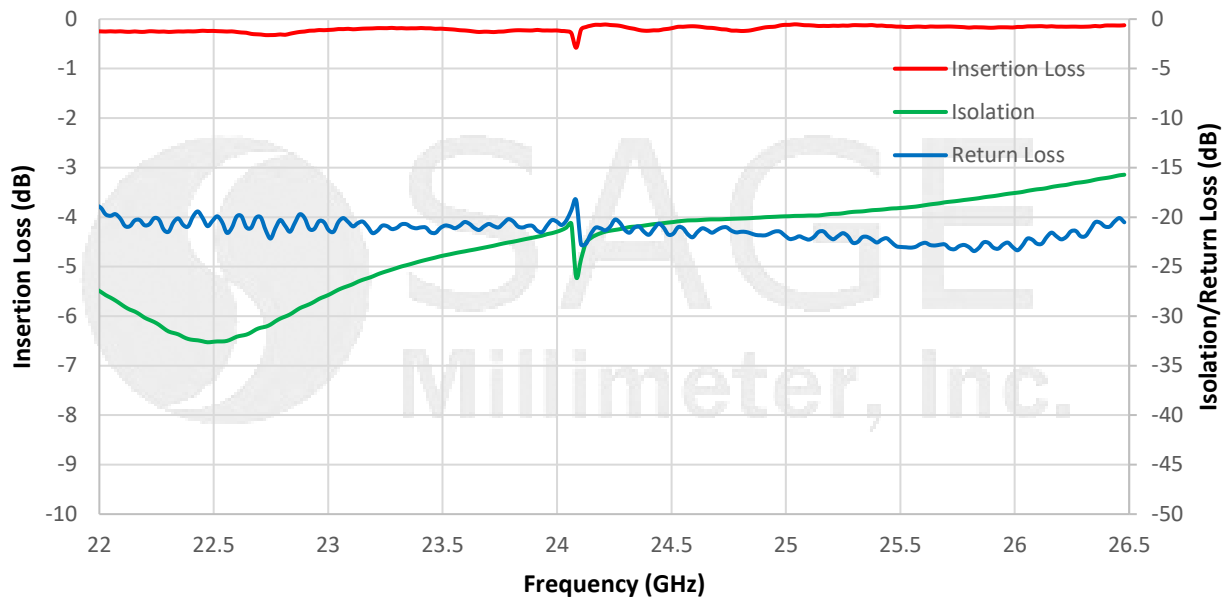
Item	Specification
RF Ports	WR-42 Waveguide with UG-595/U Flange
Case Material	Aluminum
Finish	Chem Film
Weight	0.8 Oz
Size	1.15" (W) x 1.00" (L) x 0.88" (H)
Outline	NW-CK-AT1





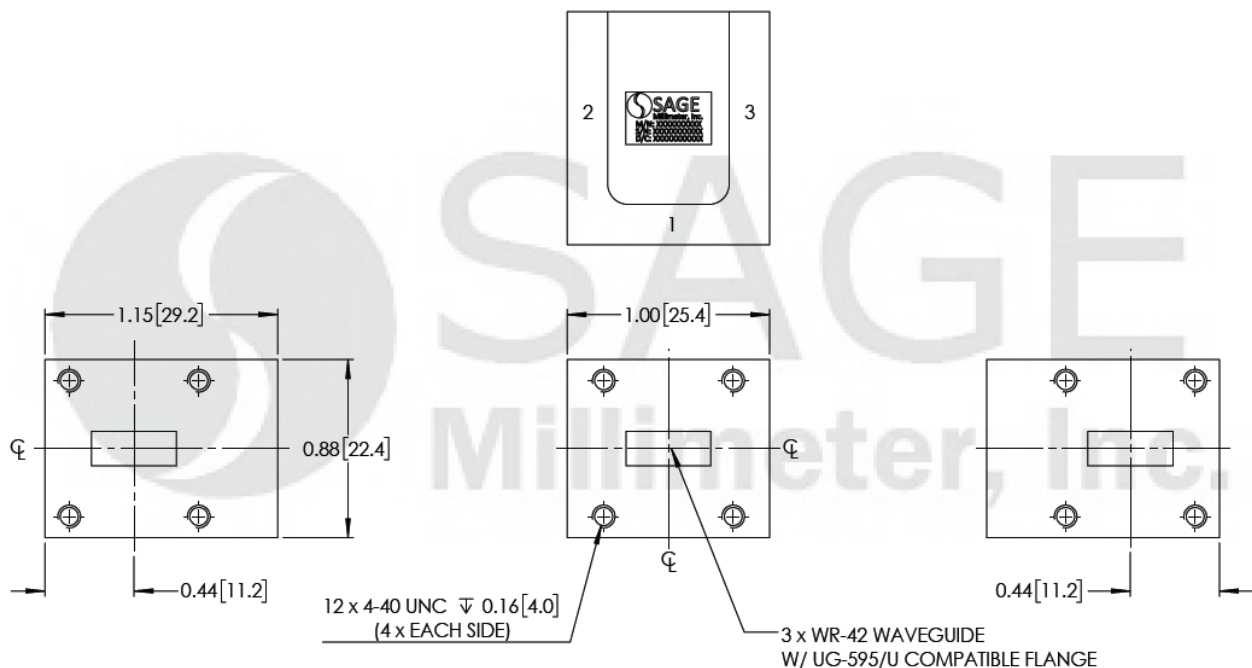
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Typical Performance vs. Frequency



Note: The insertion loss, isolation and return loss between other ports, such as port 2 to port 3, port 3 to port 1 are similar to above given plots.

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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings of the device will damage the device.
- The device is magnetically sensitive. Keep a safe distance from magnetic fields.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.

