SNW-1241241018-08-IO

F Band Waveguide Junction Isolator, 119 to 123 GHz

SNW-1241241018-08-IO is a F band waveguide junction isolator that covers the frequency range of 119 to 123 GHz. Compared with a Faraday isolator, the waveguide juction isolator offers an insertion loss of 1.0 dB typical and a much shorter insertion length for system integration. As a tradeoff, the waveguide junction isolator only offers a nominal isolation of 18 dB. The input and output ports are WR-08 waveguides with UG-387/U-M anti-cocking flange.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	119 GHz		123 GHz
Insertion Loss		1.0 dB	1.5 dB
Isolation		18 dB	
Return Loss		16 dB	
Forward Power Handling			3 W (CW)
Reverse Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange
Body Material	Aluminum
Body Finish	Gold Plated
Cover Finish	Black Anodized
Weight	0.7 Oz
Size	0.75” (L) x 0.85” (W) x 1.00” (H)
Outline	NW-IF-A

ECCN

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FEATURES

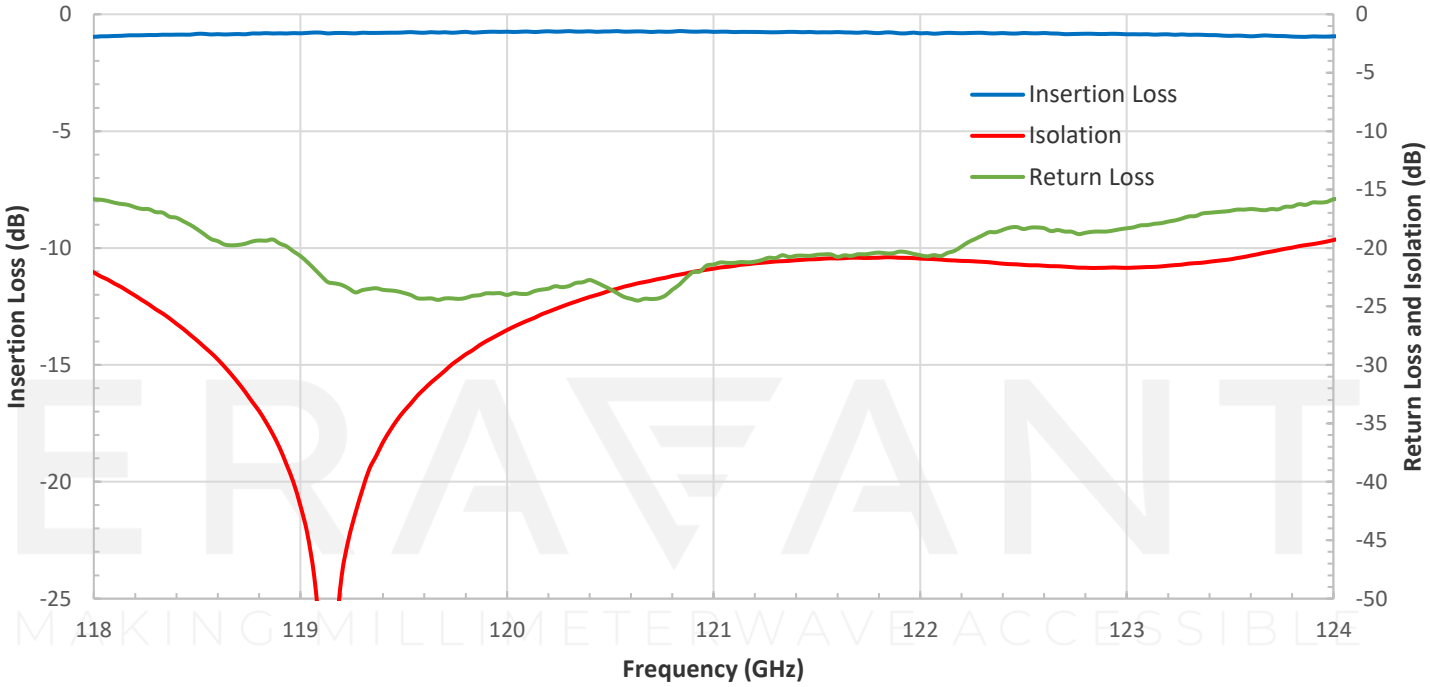
- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

APPLICATIONS

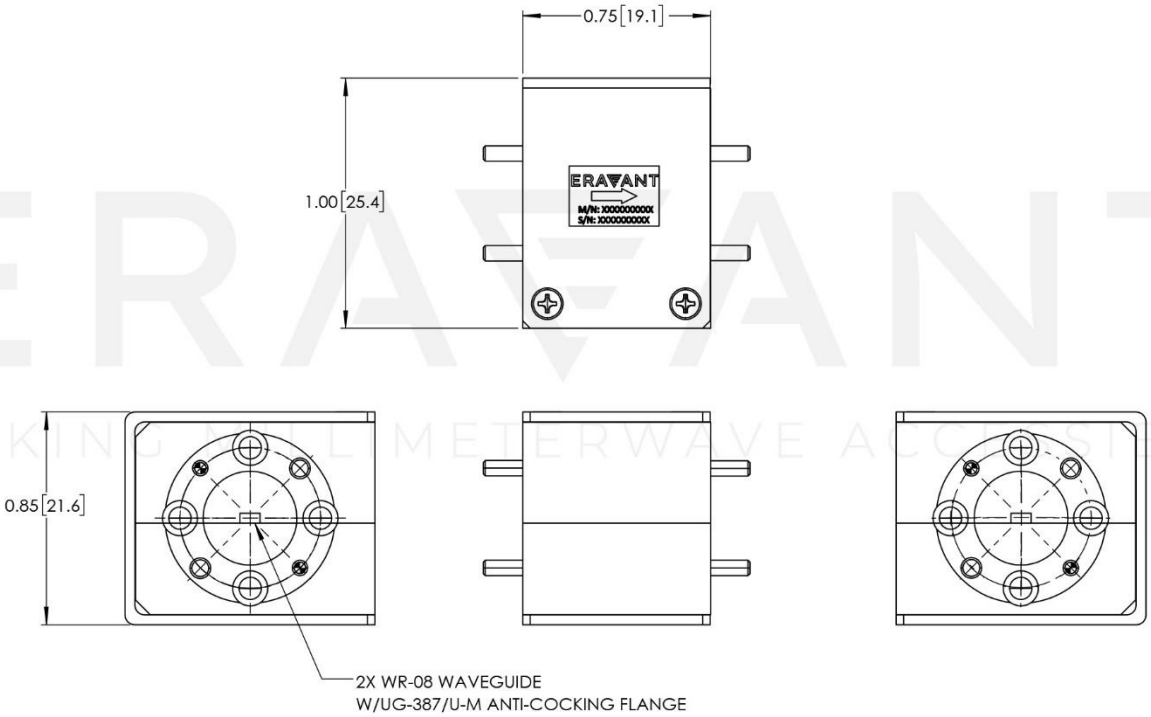
- 5G Systems
- Last Mile Communication Systems
- Port Isolation
- Module Integration

SUPPLEMENTAL DETAILS

Typical Performance vs. Frequency



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



NOTE:

- All data presented is collected from a sample lot. Actual data may vary from unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- 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 cause performance degradation and possible device damage.

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