

Manual Waveguide Switch, W-Band, E-Plane

SWJ-10-M1 is a W-band manual waveguide switch that covers the frequency range of 75 to 110 GHz. The switch is a E-plane type, bi-directional, multi-path device with a 3-channel rotor which allows for switching between four distinct positions. The typical insertion loss and isolation are 0.8 dB and 50 dB, respectively. The RF ports are WR-10 waveguides with UG-387/U-M anti-cocking flanges.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	75 GHz		110 GHz
Insertion Loss		0.8 dB	
Isolation		50 dB	
Return Loss		23 dB	
Specification Temperature		+25°C	
Operating Temperature	-25°C		+65°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Port Orientation	E-Plane
Body Material	Brass
Body Finish	Gold Plated
Weight	2.0 lbs.
Outline	WJ-MW-A

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Isolation
- Clockwise or Anti-clockwise Rotation
- 3-Channel Rotor

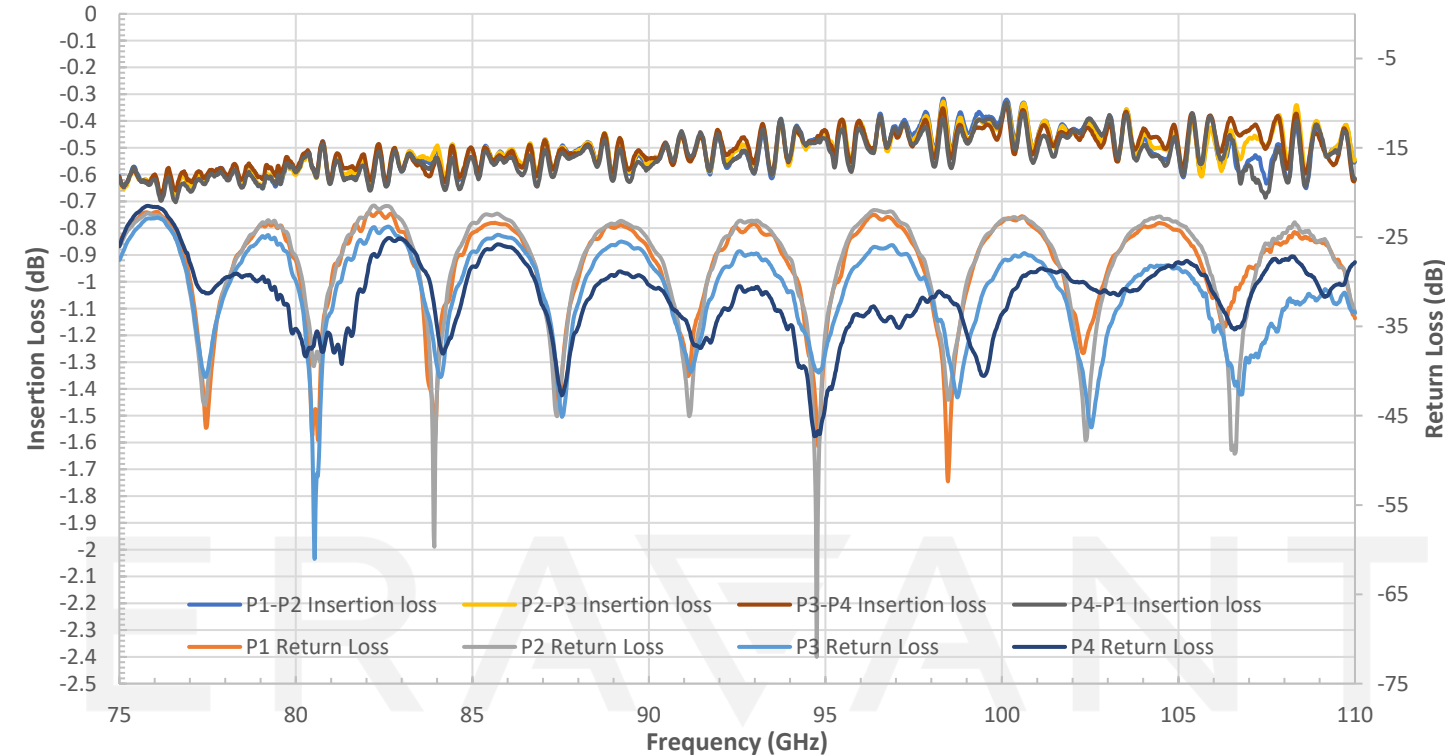
APPLICATIONS

- Test Lab
- Communication Systems
- Radar Systems

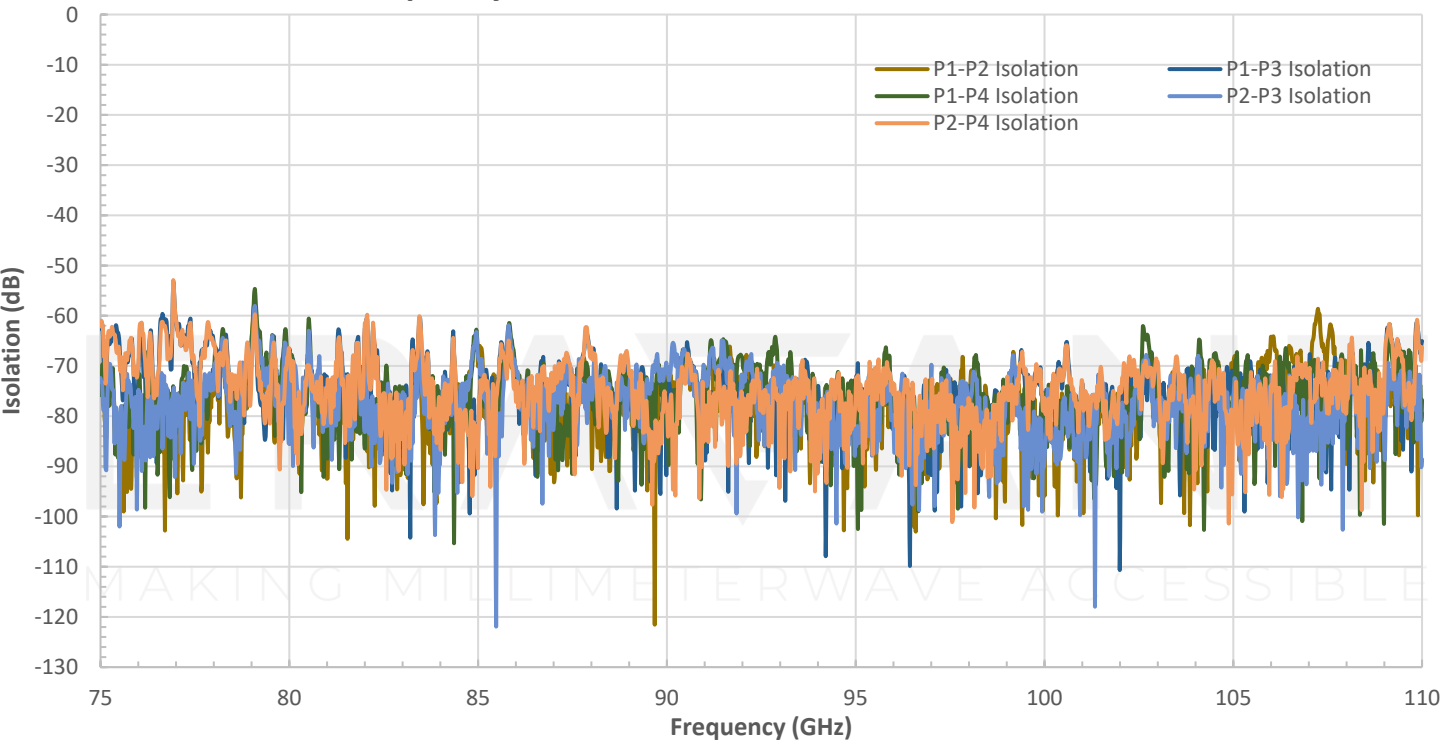
SUPPLEMENTAL DETAILS

SWJ-10-M1

Measured Insertion Loss and Return Loss vs Frequency

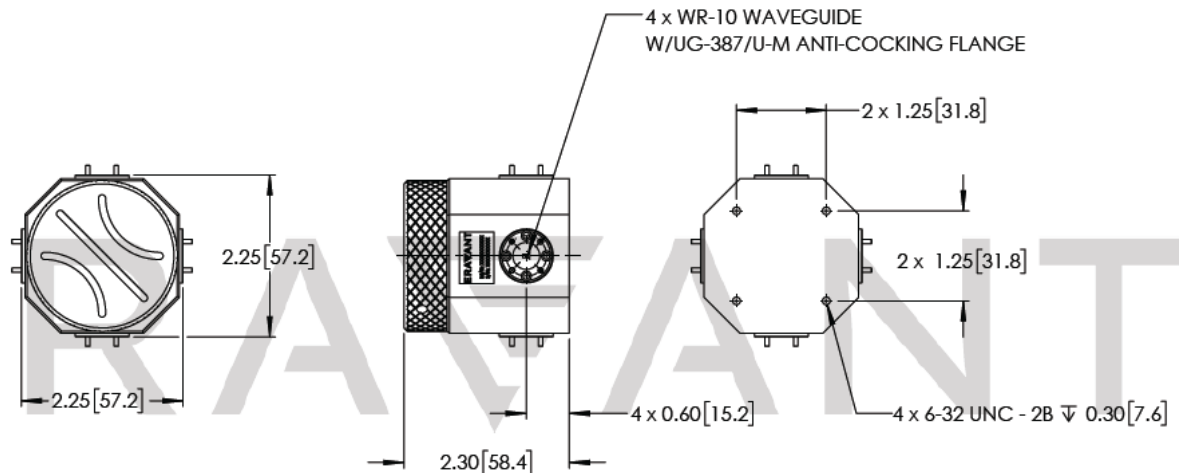


Measured Isolation vs Frequency



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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.
- 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.