

SWJ-05-M1

Manual Waveguide Switch, G-Band, E-Plane

SWJ-05-M1 is a G-band manual waveguide switch that covers the frequency range of 140 to 220 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 3 dB and 40 dB, respectively. The RF ports are WR-05 waveguides with UG-387/U-M anti-cocking flanges.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	140 GHz		220 GHz
Insertion Loss		3 dB	
Isolation		40 dB	
Return Loss		15 dB	
Specification Temperature		+25°C	
Operating Temperature	-25°C		+65°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-05 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-MG-A

ECCN

EAR99

FEATURES

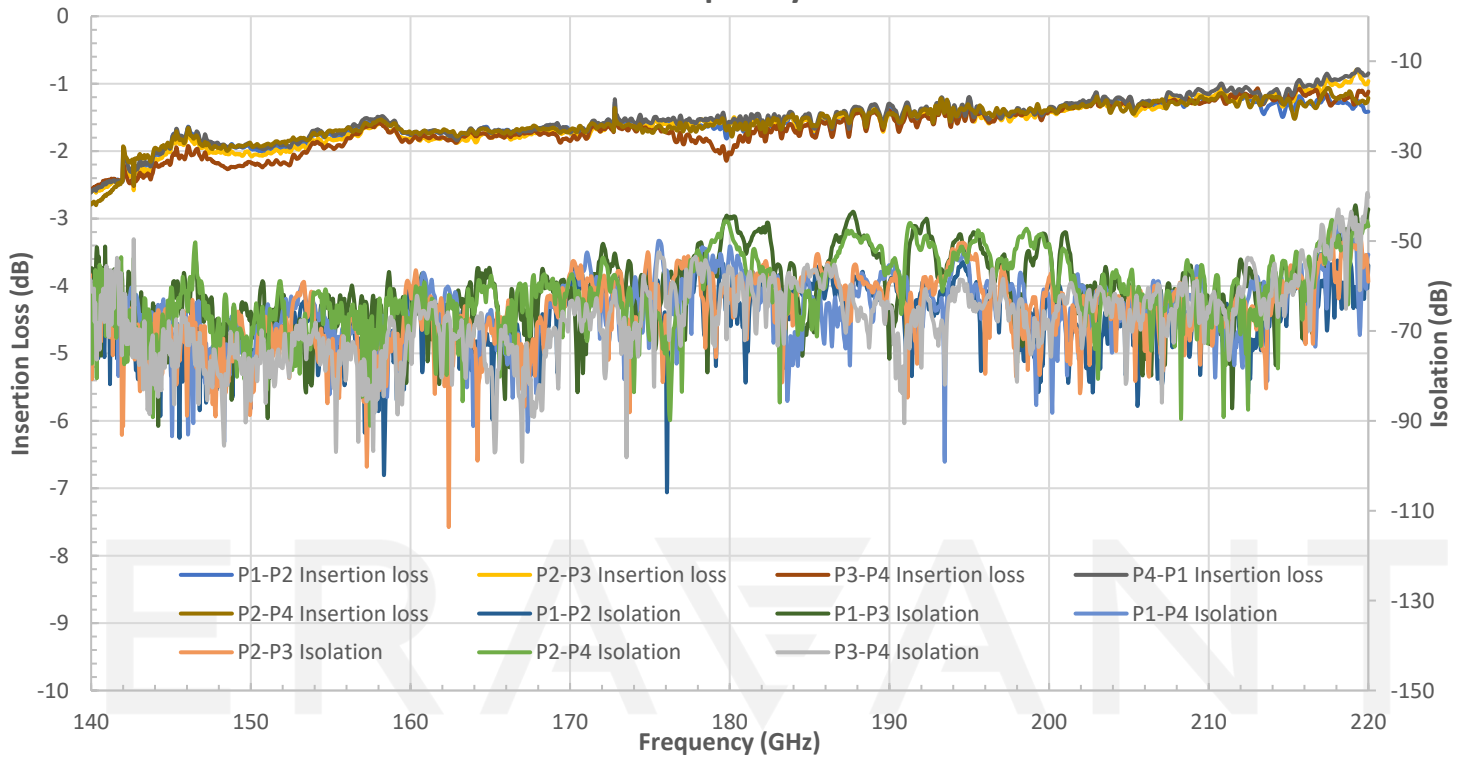
- Low Insertion Loss
- High Isolation
- Clockwise or Anti-clockwise Rotation
- 3-Channel Rotor

APPLICATIONS

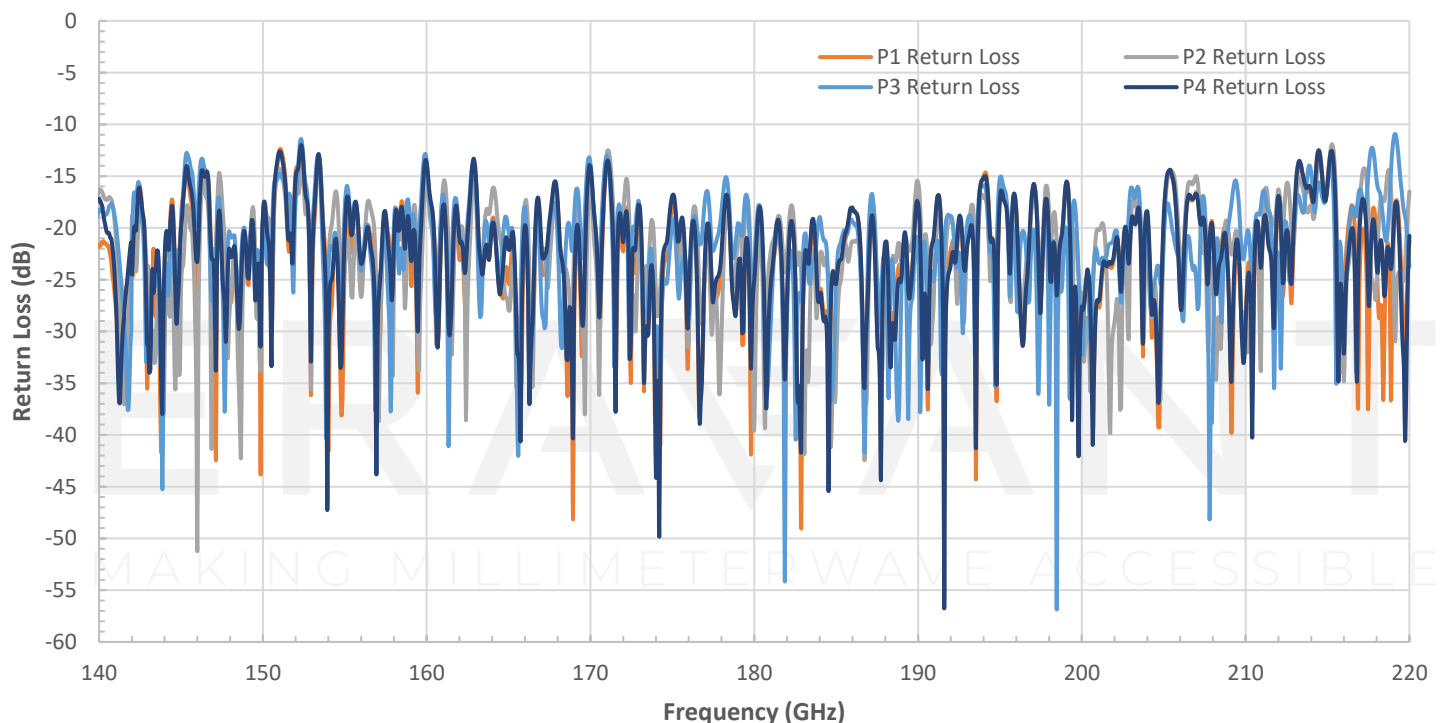
- Test Lab
- Communication Systems
- Radar Systems

SUPPLEMENTAL DETAILS

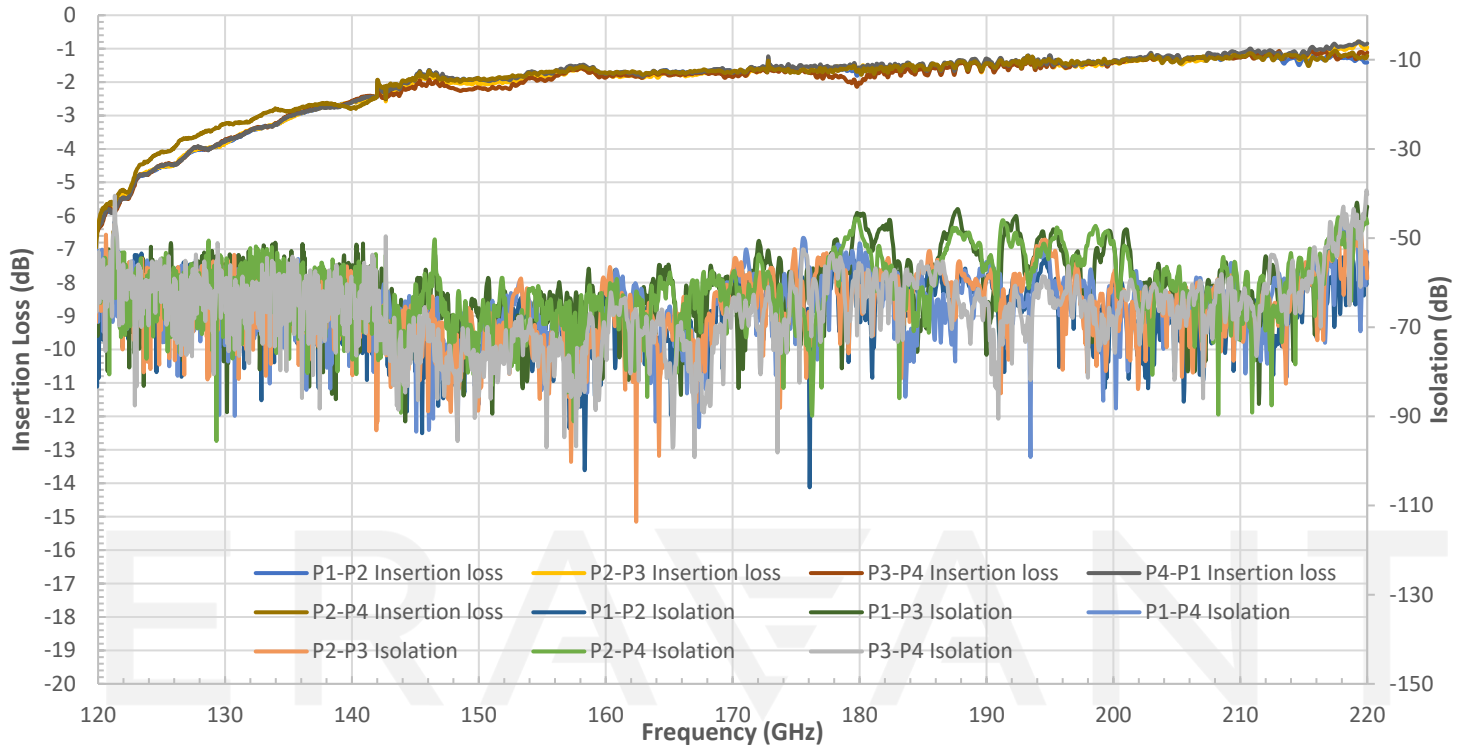
Measured Insertion Loss and Isolation vs Frequency



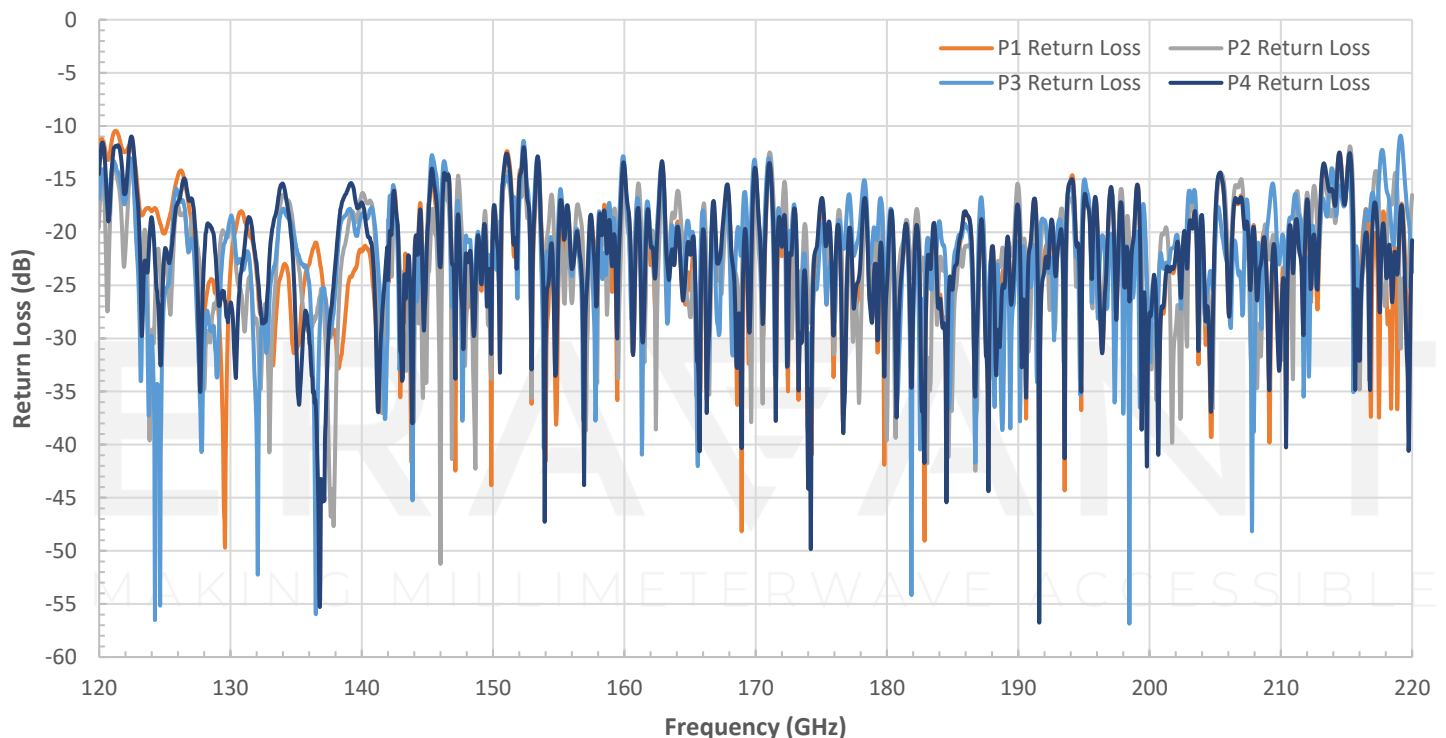
Measured Return Loss vs Frequency



Measured Insertion Loss and Isolation vs Extended Frequency

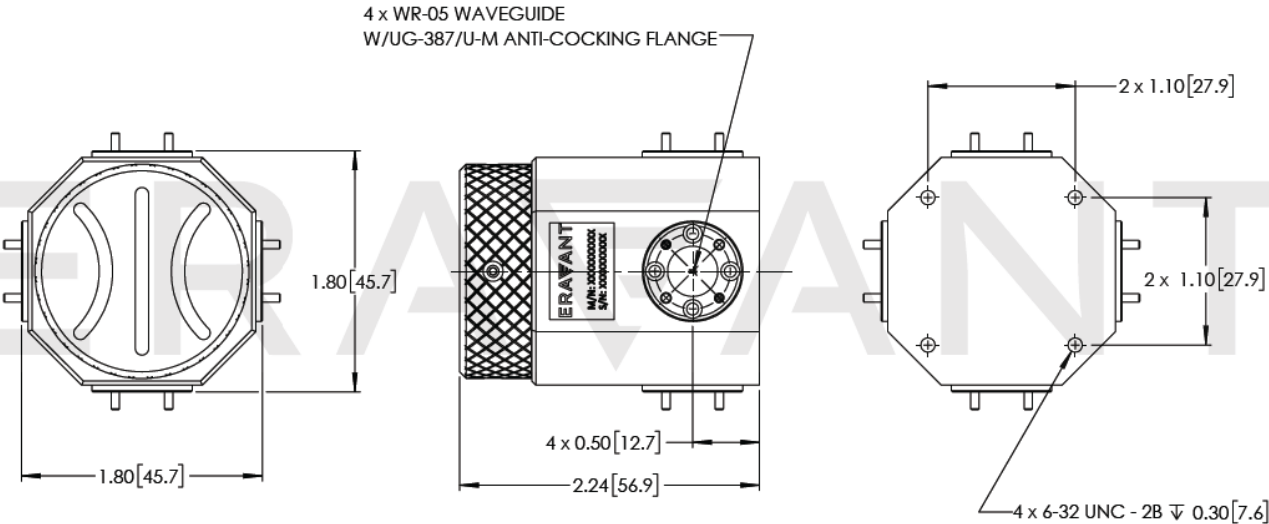


Measured Return Loss vs Extended Frequency



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



NOTE:

- 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.