

Manual Waveguide Switch, W-Band, H-Plane

Description:

Model SWJ-10-M1-H is a W-band manual waveguide switch that covers the frequency range of 75 to 110 GHz. The switch is a H-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. The E-plane version of the switch is offered under model **SWJ-10-M1**.



Features:

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

Applications:

- Test Set
- Communication Systems
- Radar Systems

Electrical Specifications:

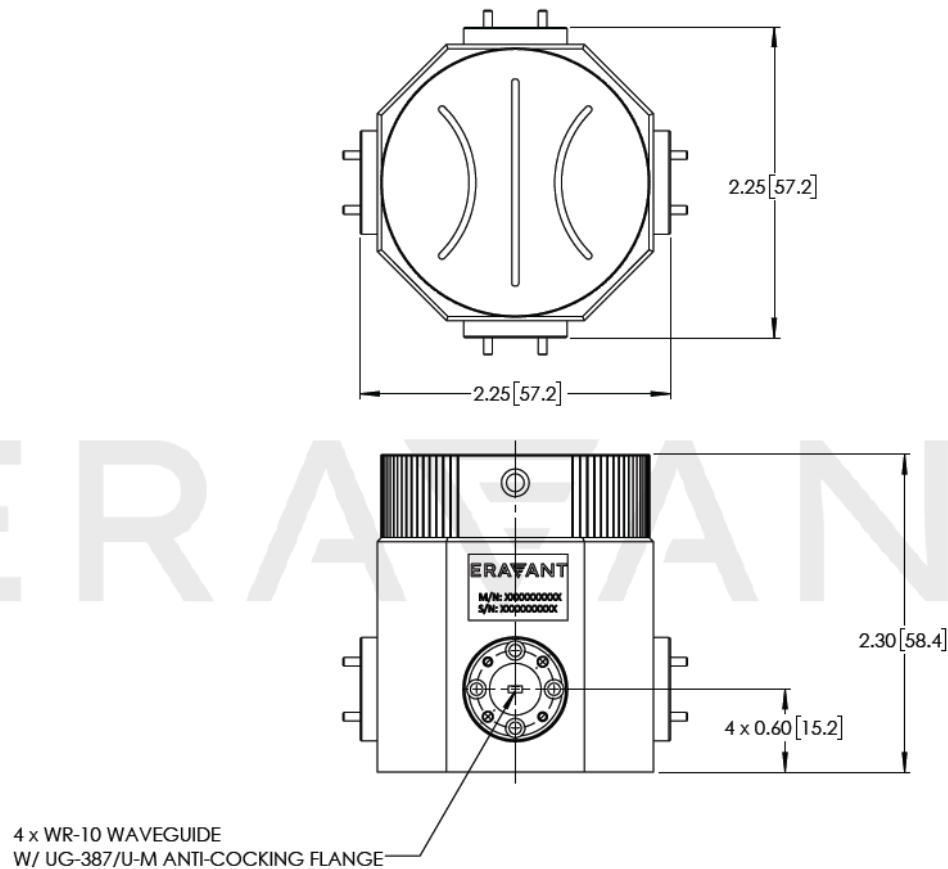
Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss		0.8 dB	
Isolation		50 dB	
Return Loss		23 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

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

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



Note:

- Datasheet photo is a render and may not be representative of the final product.
- All electrical and mechanical specs are preliminary and may differ from the final design.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.