

Manual Waveguide Switch, K-Band, E-Plane

SWJ-42-M1 is a K-band manual switch that covers the frequency range of 18 to 26.5 GHz. It is an E-plane switch that has four ports which allows four switching positions, two through and two adjacent paths. The switch is a bi-directional, multi-path device which allows clockwise and anti-clockwise switching between two through ports and two adjacent ports. The typical insertion loss and isolation are 0.2 dB and 45 dB, respectively. The RF ports are WR-42 waveguides with UG-595/U flanges.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		26.5 GHz
Insertion Loss		0.2 dB	
Isolation		45 dB	
Return Loss		20 dB	
Power Handling		100 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
Material	Brass
Finish	Gold Plated
Weight	TBD
Outline	WJ-MK

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Isolation
- Durable and repeatable
- Either Clockwise or Anti-clockwise Rotation

APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS



NOTE:

- **Photo is an illustration and not representative of the final product.**
- 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.

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