



# ..... Electromechanical Waveguide Switches

**QWZ**

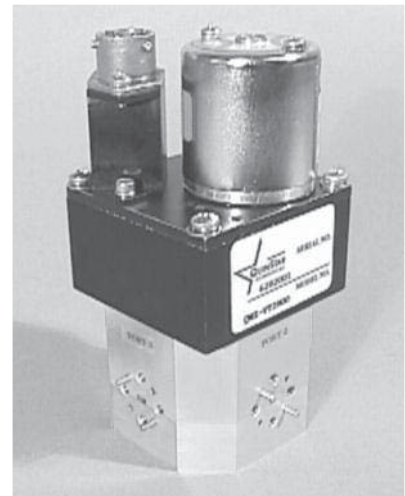
## Characteristics

- ◆ Full Waveguide Band
- ◆ High Isolation/Low Loss
- ◆ Accurate Positioning
- ◆ Bi-directional

## Product Description

QuinStar Technology's series **QWZ electromechanical waveguide switches** are 4-port mechanical devices that are rotational solenoid driven and electronically controlled. They have a bi-directional rotor accurately indexed to 90 degree positions that allows each port to be connected to either of the adjacent ports. The switches are available in

seven waveguide bands covering the frequency range of 18-110 GHz and are precision machined with bearing and indexing grooves for smooth operation and accurate positioning. They are useful in automated test set ups and system applications where remotely controlled transfer switching is required.



## Specifications

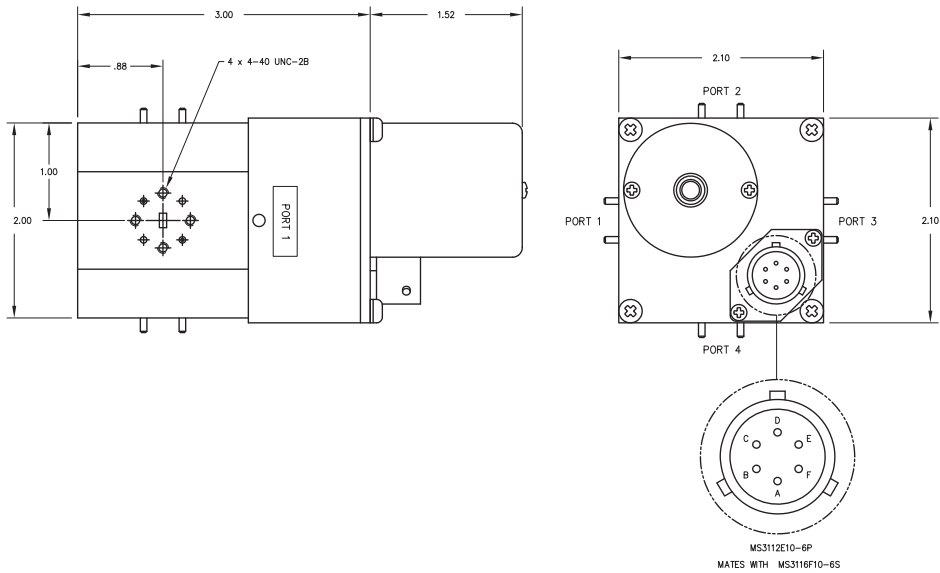
FREQUENCY BAND	K	Ka	Q	U	V	E	W
Frequency Range (GHz)	18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Flange Pattern	UG-595/U	UG-599/U	UG-383/U	UG-383/U	UG-385/U	UG-387/U	UG-387/U
Bandwidth (GHz)	Full						
Isolation (dB typical)	60						
Insertion Loss (dB max)	0.4	0.4	0.5	0.5	0.6	0.7	0.8
VSWR (typical)	1.15:1						
Control Interface	TTL or microswitch						
Switching Speed (ms typ)	50						
DC Power Requirement	15VDC/2.0A or 28VDC/1.0A pulse typical						



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## Outline Drawing



## Ordering Information

