

## QWSD-18

### DPDT, 40~60GHz, WR-18

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| <b>Features:</b><br>* Low VSWR<br>* High Isolation<br>* Low Insertion Loss | <b>Applications:</b><br>* Wireless<br>* Transmitter<br>* Laboratory Test<br>* Radar |
|--|---|

#### Electrical

Frequency:	40~60GHz
Insertion Loss:	0.2dB max.
VSWR:	1.15 max.
Isolation:	50dB min.
Voltage:	24±2V DC
current:	1.2A@24V DC

#### Mechanical

Interface:	WR-18
Operation Life:	0.1M Cycles
Switching Time:	50mS

#### Environmental

Operating Temperature:	-40~+85°C
Extended Temperature:	-55~+85°C
Non-operating temperature:	-55~+105°C

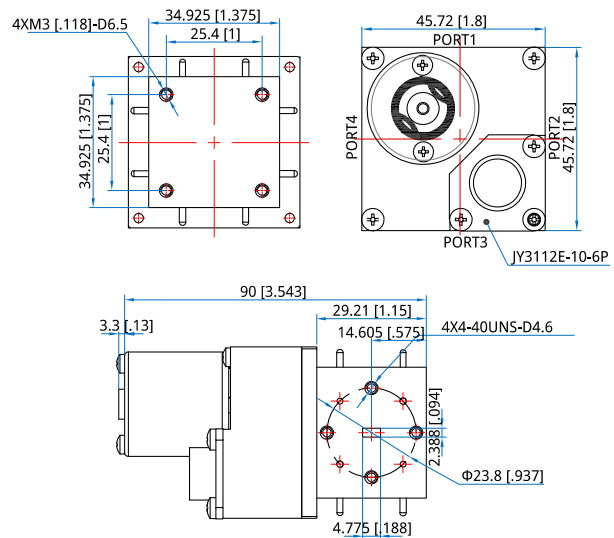
#### Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	COM(Indicator)
C	VDC	F	Indicator2

#### Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	D-E OPEN F-E ON

#### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.2mm [±0.008in]

#### Additional Options

TTL: T  
 Indicators: I  
 Extended Temperature: Z

#### How To Order

**QWSD-18-XYZ**  
 X: Voltage. +15V: F, +24V: K.  
 Y: Interface Circular connector: 2.  
 Z: Additional Options.

Examples:  
 To order a Waveguide Switch, DPDT, WR-18, +24V, TTL, Indicators, specify QWSD-18-K2TI.

Customization is available upon request.

## Driving Schematic Diagram

