

# QWSD-51

## DPDT, 15~22GHz, WR-51

- |  |   |
|--|---|
| <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:      | 15~22GHz    |
| Insertion Loss: | 0.1dB max.  |
| VSWR:           | 1.1 max.    |
| Isolation:      | 60dB min.   |
| Voltage:        | 24±2V DC    |
| current:        | 1.2A@24V DC |

### Mechanical

|                 |             |
|-----------------|-------------|
| Interface:      | WR-51       |
| 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 |

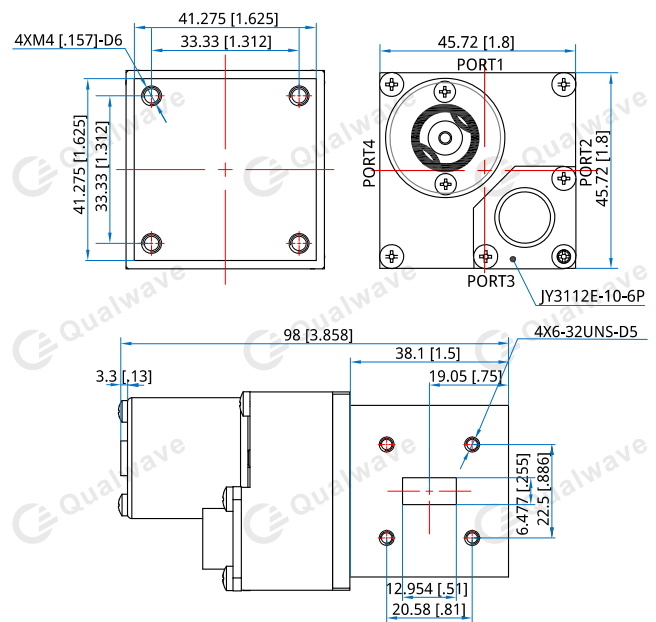
### Pin Numbering

| 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<br>PORT3-PORT4 ON | D-E ON<br>F-E OPEN |
| POS 2    | NC  | GND | VDC | PORT1-PORT4 ON<br>PORT3-PORT2 ON | D-E OPEN<br>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-51-XYZ

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

#### Examples:

To order a Waveguide Switch, DPDT, WR-51, +24V, TTL, Indicators, specify QWSD-51-K2TI.

Customization is available upon request.

## Driving Schematic Diagram

