

# QMSD2K

## DC~40GHz, DPDT

Features:  
 \* Low VSWR  
 \* Low Insertion Loss  
 \* High Isolation

Applications:  
 \* Wireless  
 \* Transmitter  
 \* Laboratory Test  
 \* Radar

### Electrical

Frequency: DC~40GHz  
 Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
DC-6	0.3	70	1.3
6-12	0.4	60	1.4
12-18	0.5	55	1.5
18-26.5	0.7	50	1.7
26.5-32	0.8	50	1.8
32-40	0.9	50	1.9

Voltage*1 (V)	Current (mA)	Failsafe	Latching
+12	350	200	180
+24	200	200	185
+28	180	185	

[1] The voltage can be selected according to user requirements.

### Mechanical

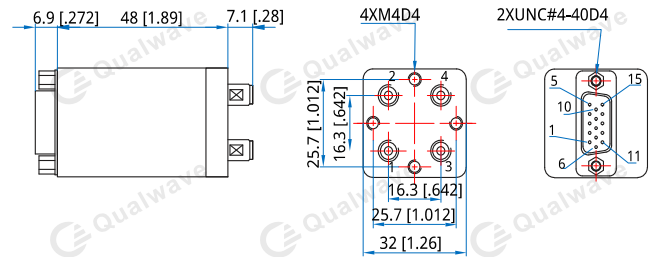
Size*2:	32*32*48mm 1.26*1.26*1.89in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	2.92mm Female
Power Supply & Control Interface Connectors:	D-Sub 15
Mounting:	4-Φ4mm through-hole

[2] Exclude connectors.

### Environmental

Temperature:	-25~+65°C
Extended Temperature:	-45~+85°C

### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.5mm [±0.02in]

### Additional Options

TTL: T  
 Indicators: I  
 Extended Temperature: Z  
 Positive Common  
 Waterproof Sealing Type

### How To Order

#### QMSD2K-F-WXYZ

F: Frequency in GHz  
 W: Actuator Type. Failsafe: 0, Latching: 1.  
 X: Voltage. +12V: E, +24V: K, +28V: M.  
 Y: Power Interface. Pin: 0, D-Sub: 1.  
 Z: Additional Options.

#### Examples:

To order a DPDT switch, DC-18GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify QMSD2K-18-0E1TI.

Customization is available upon request.

## Pin Numbering

### Failsafe

Pin	Function	Pin	Function
1	COM(RF: 1 to 3)	13~14	Indicator (1~2)
2	VDC(RF: 1 to 3)	15	Indicator (COM)
3~12	NC		

### Failsafe&TTL

Pin	Function	Pin	Function
1	VDC(RF: 1 to 3)	4~12	NC
2	COM(RF: 1 to 3)	13~14	Indicator (1~2)
3	A1(RF: 1 to 3)	15	Indicator (COM)

### Latching

Pin	Function	Pin	Function
1	V1(RF: 1 to 2)	4~12	NC
2	V2(RF: 1 to 3)	13~14	Indicator (1~2)
3	COM	15	Indicator (COM)

### Latching&TTL

Pin	Function	Pin	Function
1	VDC	5~12	NC
2	COM	13~14	Indicator (1~2)
3	A1(RF: 1 to 2)	15	Indicator (COM)
4	A2(RF: 1 to 3)		

## Driving schematic diagram

