

# QMS2KT

## DC~40GHz, SPDT, Terminated

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	0.6	50	1.6
26.5-32	0.7	50	1.7
32-40	0.9	50	1.9

Voltage*1 (V)	12	24	28
Current (mA)	Failsafe 350	200	180
	Latching 400	200	185

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

### Mechanical

Size\*2: 36.5\*53.2\*13.2mm  
 1.437\*2.094\*0.52in

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: Feed Through/Terminal Post

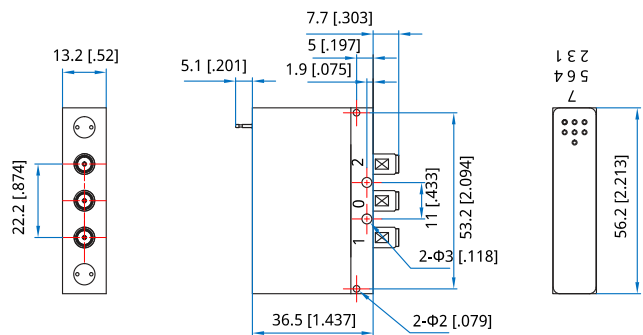
Mounting: 2-Φ3mm through-hole  
 2-Φ2mm through-hole

[2] Exclude connectors.

### Environmental

Temperature: -25~+65°C  
 Extended Temperature: -40~+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

### QMS2KT-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 SPDT terminated switch, DC-18GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify QMS2KT-18-0E1TI.

Customization is available upon request.

## Driving Schematic Diagram

### Pin Numbering

#### Failsafe

Pin	Function	Pin	Function
1	VDC( RF: 0 to 2)	4~5	Indicator (1~2)
2	NC	6	Indicator (COM)
3	COM( RF: 0 to 2)	7~9	NC

#### Latching

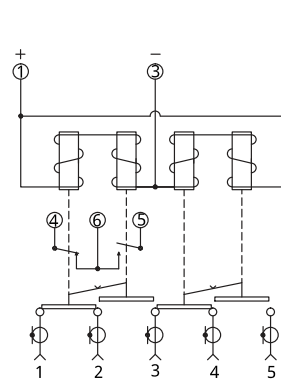
Pin	Function	Pin	Function
1	VDC( RF: 0 to 1)	4~5	Indicator (1~2)
2	VDC( RF: 0 to 2)	6	Indicator (COM)
3	COM	7~9	NC

#### Failsafe&TTL

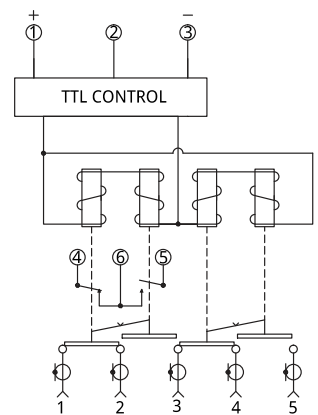
Pin	Function	Pin	Function
1	VDC( RF: 0 to 2)	4~5	Indicator (1~2)
2	A1( RF: 0 to 2)	6	Indicator (COM)
3	COM( RF: 0 to 2)	7~9	NC

#### Latching&TTL

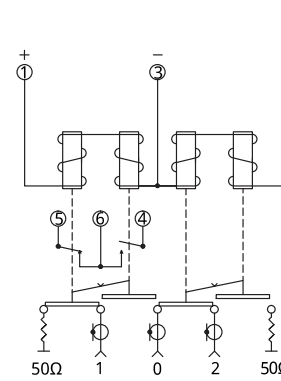
Pin	Function	Pin	Function
1	VDC	4	A2( RF: 0 to 2)
2	A1( RF: 0 to 1)	5~6	Indicator (1~2)
3	COM	7	Indicator (COM)



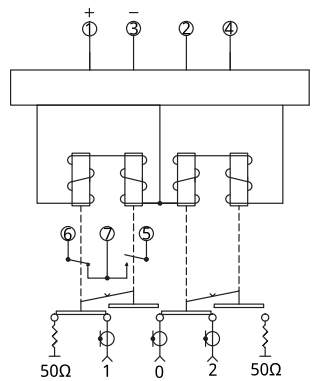
Failsafe



Failsafe+TTL



Latching



Latching+TTL