

# QMS6KTH

## DC~43.5GHz, SP3T~SP6T, Terminated

Features:  
 \* High Power  
 \* Long Operation Life

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

### Electrical

Frequency: DC~43.5GHz  
 Impedance: 50Ω

Model	Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
QMS6KTH-40	DC-26.5	0.5	80	1.5
	26.5-40	0.7	70	1.6
QMS6KTH-43.5	DC~40	0.4	70	1.3
	40-43.5	1.0	55	1.7

Voltage*1 (V)	12	24	28	
Current (mA)	Normally Open	300	200	180
	Latching	320	200	180

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

### Mechanical

Size\*2: Φ59\*50mm  
 Φ2.323\*1.969in

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

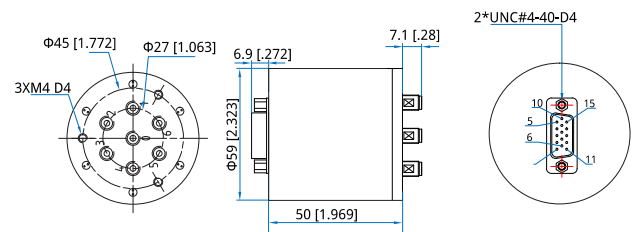
RF Connectors: 2.92mm Female  
 Power Supply & Control Interface Connectors: D-Sub 15/26  
 Mounting: 3-Φ4mm through-hole

[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

### How To Order

#### QMSVKTH-F-WXYZ

V: 3~6 (SP3T~SP6T)  
 F: Frequency in GHz  
 W: Actuator Type. Latching: 1, Normally Open: 3.  
 X: Voltage. +12V: E, +24V: K, +28V: M.  
 Y: Power Interface. D-Sub: 1.  
 Z: Additional Options.

#### Examples:

To order a SP4T terminated switch, High performance, DC-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS4KTH-40-3E1TI.

Customization is available upon request.

## Pin Numbering

### Normally Open

Pin	Function	Pin	Function
1~6	V1~V6	14	Indicator (Com)
7	COM	15	NC
8~13	Indicator (1~6)		

### Normally Open & TTL

Pin	Function	Pin	Function
1~6	A1~A6	9~14	Indicator (1~6)
7	VDC	15	Indicator (Com)
8	COM		

### Latching

Pin	Function	Pin	Function
1~6	V1~V6	9~14	Indicator (1~6)
7	RESET	15	Indicator (Com)
8	COM		

Latching switch should power on pin 7 to reset before excitation.

### Latching & TTL

Pin	Function	Pin	Function
1~6	A1~A6	10~15	Indicator (1~6)
7	RESET	16	Indicator (Com)
8	VDC	17~26	NC
9	COM		

## Driving Schematic Diagram

