

# QMS6STH

## DC~26.5GHz, SP3T~SP6T, Terminated

Features:  
 \* High Power  
 \* Long Operation Life

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

### Electrical

Frequency: DC~26.5GHz  
 Impedance: 50Ω

Model	Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
QMS6STH-18	DC-6	0.20	80	1.2
	6-18	0.35	70	1.3
QMS6STH-26.5	DC-18	0.40	70	1.3
	18-26.5	0.60	65	1.5

Voltage <sup>*1</sup> (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<sup>\*2</sup>:  $\Phi 59 \times 61.5\text{mm}$   
 $\Phi 2.323 \times 2.421\text{in}$

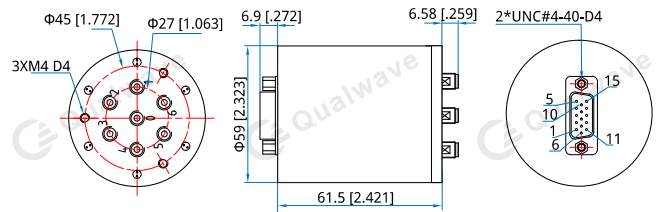
Switching Sequence: Break before Make  
 Switching Time: 15ms max.  
 Operation Life: 2M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11ms  
 RF Connectors: SMA Female  
 Power Supply & Control Interface Connectors: D-Sub 15/26  
 Mounting: 3- $\Phi 4\text{mm}$  through-hole

[2] Exclude connectors.

### Environmental

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

### Outline Drawings



Unit: mm [in]  
 Tolerance:  $\pm 0.5\text{mm}$  [ $\pm 0.02\text{in}$ ]

### Additional Options

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

### How To Order

**QMSVSTH-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-18GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS4STH-18-3E1TI.

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	15	Indicator (Com)
7	V (RESET)	16	VDC
8	COM	17~26	NC
9~14	Indicator (1~6)		

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

