

# QMS8ST

## DC~26.5GHz, SP7T~SP8T, Terminated

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

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

### Electrical

Frequency: DC~26.5GHz  
 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	50	1.5
18-26.5	0.6	50	1.6

Current (mA)	Voltage*1 (V)			
	Normally Open	300	240	180
	Latching	320	200	180

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

### Mechanical

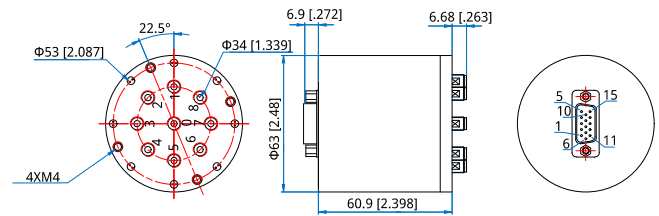
Size\*2: Φ63\*61mm  
 Φ2.48\*2.402in  
 Switching Sequence: Break before Make  
 Switching Time: 15mS max.  
 Operation Life: 2M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS  
 RF Connectors: SMA Female  
 Power Supply & Control Interface Connectors: D-Sub 15/26 male  
 Mounting: 4-Φ4.5mm 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

**QMSVST-F-WXYZ**  
 V: 7~8 (SP7T~SP8T)  
 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 SP7T terminated switch, DC-18GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS7ST-18-3E1TI.

Customization is available upon request.

## Pin Numbering

### Normally Open

Pin	Function	Pin	Function
1~8	V1~V8	18	Indicator (Com)
9	COM	19~26	NC
10~17	Indicator (1~8)		

### Normally Open & TTL

Pin	Function	Pin	Function
1~8	A1~A8	11~18	Indicator (1~8)
9	VDC	19	Indicator (Com)
10	COM	20~26	NC

### Latching

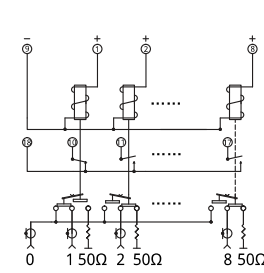
Pin	Function	Pin	Function
1~8	V1~V8	11~18	Indicator (1~8)
9	RESET	19	Indicator (Com)
10	COM	20~26	NC

Latching switch should power on pin n 9 to reset before excitation.

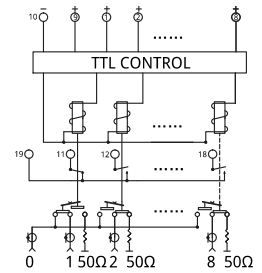
### Latching & TTL

Pin	Function	Pin	Function
1~8	A1~A8	12~19	Indicator (1~8)
9	RESET	20	Indicator (Com)
10	VDC	21~26	NC
11	COM		

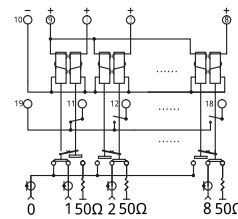
## Driving Schematic Diagram



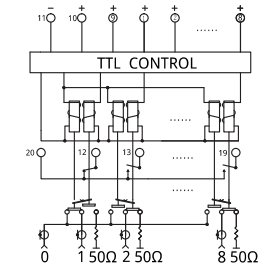
Normally Open



Normally Open & TTL



Latching



Latching & TTL