

# QMS2STH

## DC~26.5GHz, SPDT, Terminated

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

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

### Electrical

Frequency: DC~26.5GHz  
 Impedance: 50Ω

Model	Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
QMS2STH-18	DC-6	0.20	70	1.20
	6-18	0.40	55	1.30
QMS2STH-26.5	18-26.5	0.40	70	1.30
	18-26.5	0.45	55	1.40

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

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

### Mechanical

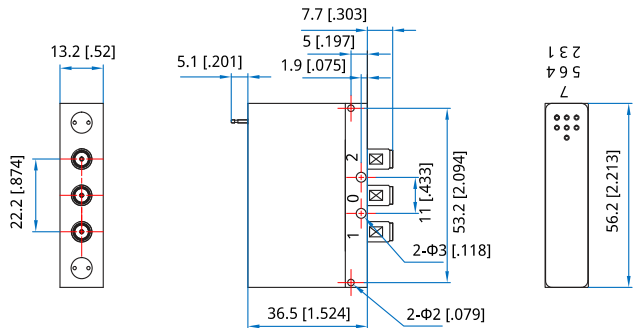
Size*2:	38.7*53.2*13.2mm 1.524*2.094*0.52in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	SMA Female
Power Supply & Control Interface Connectors:	Feed 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

### How To Order

#### QMS2STH-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  
 Z: Additional Options.

#### Examples:

To order a SPDT terminated switch, High performance, DC-18GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify QMS2STH-18-0E1TI.

Customization is available upon request.

## 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

### 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

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

### 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)

## Driving Schematic Diagram

