

# QMS8K

## DC~40GHz, SP7T~SP8T

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~12	0.5	70	1.4	
12~18	0.6	60	1.5	
18~26.5	0.8	55	1.7	
26.5~40	1.1	50	2.0	
Voltage (V)		+12	+24	+28
Current (mA)	Normally Open	300	150	140

### Mechanical

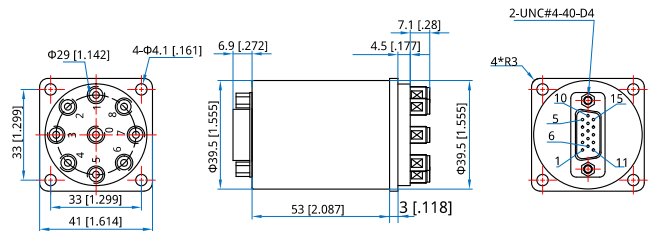
Size*1:	41*41*53mm 1.614*1.614*2.087in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	2.92mm Female
Power Supply & Control Interface Connectors:	D-Sub 15 Male/D-Sub 26 Male
Mounting:	4-Φ4.1mm through-hole

[1] 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

**QMSVK-F-WXYZ**

V: 7~8 (SP7T~SP8T)

F: Frequency in GHz

W: Actuator Type. Normally Open: 3.

X: Voltage. +12V: E, +24V: K, +28V: M.

Y: Power Interface. D-Sub: 1.

Z: Additional Options.

Examples:

To order a SP8T switch, DC-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS8K-40-3E1TI.

Customization is available upon request.

## Pin Numbering

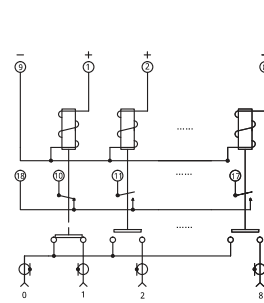
### Normally Open

Pin	Function	Pin	Function
1~8	V1~V8	18	Indicator (COM)
9	COM	19~25	NC
10~17	Indicator (1~8)		

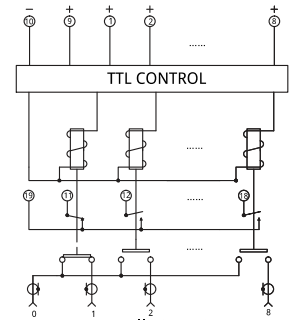
### Normally Open & TTL

Pin	Function	Pin	Function
1~8	A1~A8	11~18	Indicator (1~8)
9	VDC	19	Indicator (COM)
10	COM	20~25	NC

## Driving Schematic Diagram



Normally Open



Normally Open & TTL