

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 | Power (W) |
|-----------------------|---------------------|----------------|------|-----------|
| DC-6 | 0.3 | 70 | 1.3 | 40 |
| 6-12 | 0.4 | 60 | 1.4 | 30 |
| 12-18 | 0.5 | 55 | 1.5 | 25 |
| 18-26.5 | 0.7 | 50 | 1.7 | 12 |
| 26.5-32 | 0.8 | 50 | 1.8 | 8 |
| 32-40 | 0.9 | 50 | 1.9 | 5 |

| | | | | |
|---------------|---------------|-----|-----|-----|
| Voltage*1 (V) | +12 | +24 | +28 | |
| Current (mA) | Normally Open | 300 | 150 | 140 |

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

| TTL | Low Level | High Level | |
|-----|-----------|------------|-------|
| | 0~0.3V | 3~5V | 1.4mA |

| Indicators*2 | Voltage (V max.) | Current (mA max.) | Capacity (Ω max.) | Impedance |
|--------------|------------------|-------------------|-------------------|-----------|
| | 50 | 100 | 15 | |

[2] Connect the control terminal VDC & GND before running this function.

Mechanical

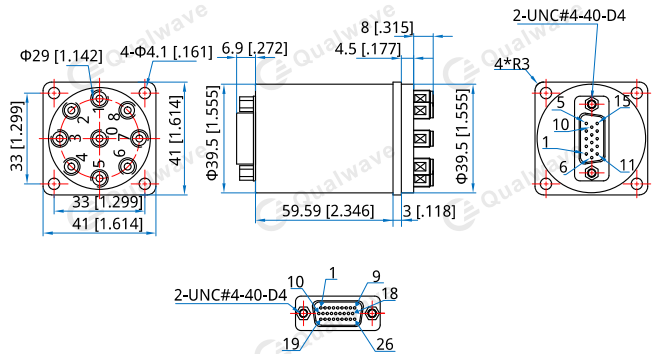
- Size*3: 41*41*59.59mm
 1.614*1.614*2.346in
- Switching Sequence: Break before Make
- Switching Time: 15mS max.
- Operation Life: 2M Cycles
- Vibration (operating): 20-2000Hz, 10G RMS
- Mechanical Shock (non-operating): 50G, 1/2sine, 11mS
- RF Connectors: 2.92mm Female
- Power Supply & Control Interface Connectors: D-Sub 15 Male/D-Sub 26 Male
- Mounting: 4-Φ4.1mm through-hole

[3] Exclude connectors.

Environmental

Temperature: -25~+65°C
 Extended Temperature: -45~+85°C
 Non-operating Temperature: -55~+85°C

Outline Drawings (Non-TTL/TTL/Indicators)



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 | 19~26 | 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 |

Port

| Port | Pin | Port | Pin |
|------|-----|------|-----|
| SP7T | 1~7 | SP8T | 1~8 |