

**QK SERIES**  
**1P3T to 1P6T**  
**MULTI POSITION SWITCH**  
**DC-40 GHz** ◆ **K**

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The **QK Series** features K connectors and a frequency range of DC to 40 GHz.

This series is available with latching self cut-off or normally open functions.

<b>RF Impedance:</b>	50 ohms nominal
<b>Temperature Range:</b>	-35°C to +85°C ambient
<b>Operating Life:</b>	1,000,000 cycles min.
<b>Switching Time:</b>	15 mSec max.
<b>Switching Sequence:</b>	Break Before Make
<b>Environmental:</b>	Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-6 GHz	1.30	0.20	70
6-12 GHz	1.40	0.40	60
12-18 GHz	1.50	0.50	60
18-26.5 GHz	1.70	0.70	55
26.5-40 GHz	2.00	1.00	50

Actuator Current (typical)	Actuator Current (typical)			
	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	180mA	180mA	130mA	140mA

\* If reduced coil current is required, please contact Factory.

**AVAILABLE OPTIONS**

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
9 - K	1 - 6 Vdc +/- 10% 2 - 12 Vdc +/- 10% (USB Optional) 3 - 24-30 Vdc	Normally Open G - Diodes, Indicators (USB Optional) H - Indicators J - Diodes (USB Optional) K - Standard	7 - DC to 40 GHz	L - TTL (High) LL - TTL (Low) 1 - Bracket F - Flange U - USB
1 - Solder Terminals 2 - Circular Connector 4 - Sub Miniature D-Shell Connector 5 - USB	4 - 48 Vdc +/- 10% 5 - 110 Vac +/- 10% 6 - 12-15 Vdc (USB Optional) 7 - 18-20 Vdc 8 - 20-24 Vdc		OPTION 7 POLARITY 0 - Not Applicable, USB 8 - Positive Common 9 - Negative Common	

Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3. The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket for 12Vdc connection, which is required to power RF switch. The switch is accompanied with a CD driver, a 3 ft. USB cable and a 12 Vdc AC/DC adapter.

<b>QK</b>	-	<b>9</b>	-	<b>7</b>
Option 1 Series		Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage
Option 1 Number of Positions			Option 5 Actuator	Option 6 Frequency
			Option 7 Polarity	Option 8 Special Options

**DC TERMINAL FUNCTION**

PIN	NORMALLY OPEN					
	J	K	J, K w/ TTL	G	H	G, H w/ TTL
1	COM+/-	COM	+A	COM+/-	COM	+A
2	1-/+	1	-B	1-/+	1	-B
3	2-/+	2	1	2-/+	2	1
4	3-/+	3	2	3-/+	3	2
5	4-/+	4	3	4-/+	4	3
6	5-/+	5	4	5-/+	5	4
7	6-/+	6	5	6-/+	6	5
8	N/A	N/A	6	N/A	N/A	6
A	N/A	N/A	N/A	COM	COM	COM
B	N/A	N/A	N/A	1	1	1
C	N/A	N/A	N/A	2	2	2
D	N/A	N/A	N/A	3	3	3
E	N/A	N/A	N/A	4	4	4
F	N/A	N/A	N/A	5	5	5
G	N/A	N/A	N/A	6	6	6

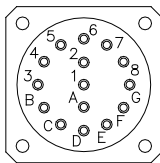
**SCHEMATICS**

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FIG.	29	29	30	29	29	30

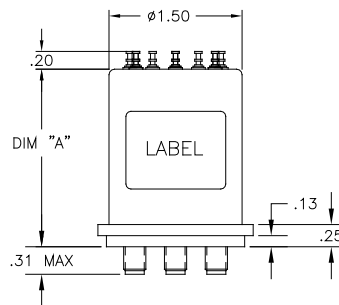
**OUTLINE DRAWING DIMENSION "A"**

1.60"	1.60"	2.25"	2.10"	2.10"	2.50"
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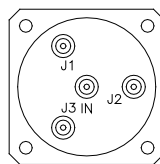
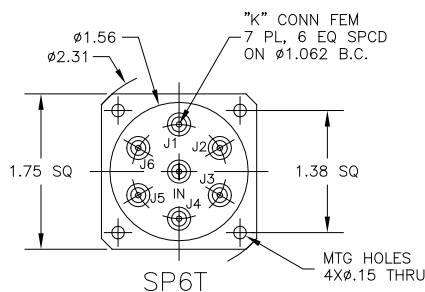
**DC TERMINAL VIEW**



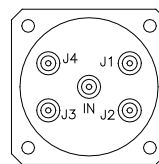
**FRONT VIEW**



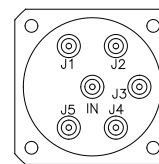
**BOTTOM VIEW**



SP3T



SP4T



SP5T