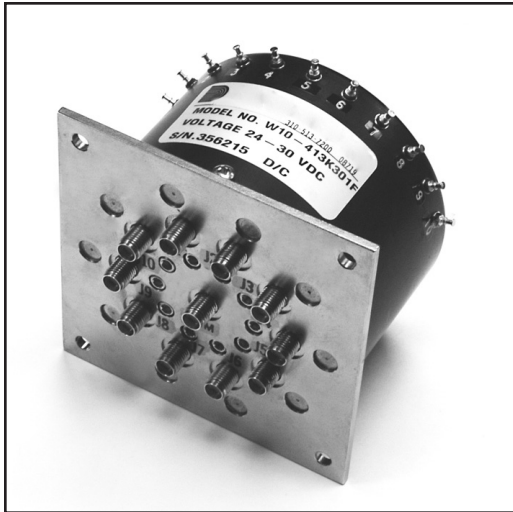


**W SERIES**  
**1P8T to 1P10T**  
**MULTI POSITION SWITCH**  
**DC-18 GHz ◆ SMA**

**Click Here to Request Quote**



The **W Series** features SMA connectors and a frequency range of DC to 18 GHz.

This series is available with normally open functions only.

<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-3 GHz	1.20	0.20	80
3-8 GHz	1.30	0.30	70
8-12.4 GHz	1.40	0.40	60
12.4-15.5 GHz	1.50	0.50	60
15.5-18 GHz	1.80	0.80	55

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	270mA	270mA	150mA	140mA

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

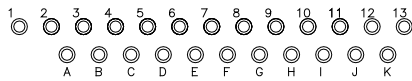
**AVAILABLE OPTIONS**

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
<b>4 - SMA</b>	<b>1 - 6 Vdc +/- 10%</b> <b>2 - 12 Vdc +/- 10% (USB Optional)</b> <b>3 - 24-30 Vdc</b> <b>4 - 48 Vdc +/- 10%</b> <b>5 - 110 Vac +/- 10%</b> <b>6 - 12-15 Vdc (USB Optional)</b> <b>7 - 18-20 Vdc</b> <b>8 - 20-24 Vdc</b>	<b>Normally Open</b>	<b>3 - DC to 18 GHz</b>	<b>L - TTL (High)</b> <b>LL - TTL (Low)</b> <b>1 - Bracket</b> <b>F - Flange</b> <b>R - Reset (Latching Only)</b> <b>C - BCD</b> <b>T - Terminated</b> <b>U - USB</b>
		<b>G - Diodes, Indicators (USB Optional)</b> <b>H - Indicators</b> <b>J - Diodes (USB Optional)</b> <b>K - Standard</b>		
<b>OPTION 3 TERMINALS</b> <b>1 - Solder Terminals</b> <b>2 - Circular Connector</b> <b>4 - Sub Miniature D-Shell Connector</b> <b>5 - USB</b>				

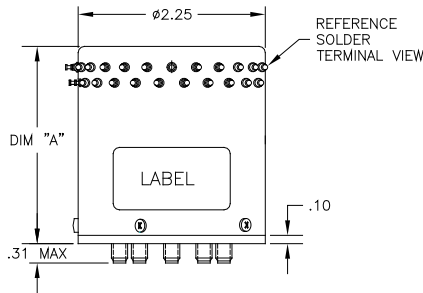
Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3. The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket 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>W</b>	<b>-</b>	<b>4</b>				<b>3</b>		
<b>Option 1 Series</b>	<b>Option 1 Number of Positions</b>	<b>Option 2 RF Connectors</b>	<b>Option 3 Terminals</b>	<b>Option 4 Voltage</b>	<b>Option 5 Actuator</b>	<b>Option 6 Frequency</b>	<b>Option 7 Polarity</b>	<b>Option 8 Special Options</b>

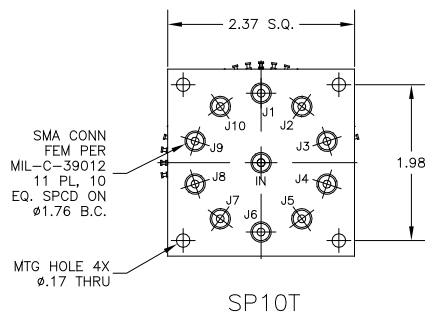
**DC TERMINAL VIEW**



**FRONT VIEW**



**BOTTOM VIEW**



**DC TERMINAL FUNCTION**

PIN	NORMALLY OPEN					
	J	K	J, K w/ TTL	G	H	G, H w/ TTL
1	N/A	N/A	N/A	N/A	N/A	N/A
2	COM+/-	COM	+A	COM+/-	COM	+A
3	1-/+	1	-B	1-/+	1	-B
4	2-/+	2	1	2-/+	2	1
5	3-/+	3	2	3-/+	3	2
6	4-/+	4	3	4-/+	4	3
7	5-/+	5	4	5-/+	5	4
8	6-/+	6	5	6-/+	6	5
9	7-/+	7	6	7-/+	7	6
10	8-/+	8	7	8-/+	8	7
11	9-/+	9	8	9-/+	9	8
12	10-/+	10	9	10-/+	10	9
13	N/A	N/A	10	N/A	N/A	10
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
H	N/A	N/A	N/A	7	7	7
I	N/A	N/A	N/A	8	8	8
J	N/A	N/A	N/A	9	9	9
K	N/A	N/A	N/A	10	10	10

NOTE#1: RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

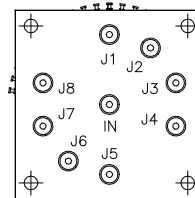
**SCHEMATICS**

Pages 139-143

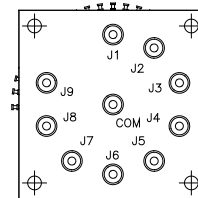
FIG.	29	29	30	29	29	30
------	----	----	----	----	----	----

**OUTLINE DRAWING DIMENSION "A"**

2.10"	2.10"	2.36"	2.10"	2.10"	2.36"
-------	-------	-------	-------	-------	-------



SP8T



SP9T