

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

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

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

<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	333mA	185mA
Latching	280mA	353mA	218mA	175mA

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

**AVAILABLE OPTIONS**

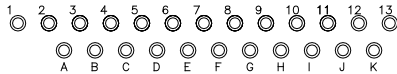
OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
4 - SMA	1 - 6 Vdc +/- 10%	<b>Latching Self Cut-Off</b>	3 - DC to 18 GHz	L - TTL (High)
	2 - 12 Vdc +/- 10% (USB Optional)	D - Diodes (USB Optional)		LL - TTL (Low)
	3 - 24-30 Vdc	E - Diodes, Indicators (USB Optional)		1 - Bracket
<b>OPTION 3 TERMINALS</b>	4 - 48 Vdc +/- 10%		<b>OPTION 7 POLARITY</b>	F - Flange
1 - Solder Terminals	5 - 110 Vac +/- 10%		0 - Not Applicable, USB	R - Reset (Latching Only)
2 - Circular Connector	6 - 12-15 Vdc (USB option) (USB Optional)	<b>Normally Open</b>	8 - Positive Common	C - BCD
4 - Sub Miniature D-Shell Connector	7 - 18-20 Vdc	G - Diodes, Indicators (USB Option)	9 - Negative Common	T - Terminated
5 - USB	8 - 20-24 Vdc	H - Indicators		U - USB
		J - Diodes (USB Optional)		
		K - Standard		

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.

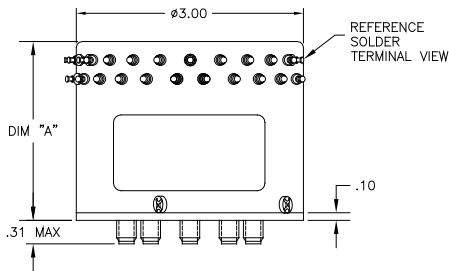
<b>W</b>		<b>-</b>	<b>4</b>			<b>3</b>		
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options

**DC TERMINAL FUNCTION**

**DC TERMINAL VIEW**



**FRONT VIEW**



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

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

**SCHEMATICS**

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FIG.	25	26	25	26	29	29	30	29	29	30
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**OUTLINE DRAWING DIMENSION "A"**

2.60"	2.98"	2.60"	2.98"	2.10"	2.10"	2.36"	2.10"	2.10"	2.36"
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**BOTTOM VIEW**

