

**SN/SNH SERIES**  
**SP3T to SP6T**  
**MULTI POSITION SWITCH**  
**DC-10 GHz ◆ N**

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The **SN Series** features N connectors and a frequency range of DC to 10 GHz.

The **SNH Series** features High Power N connectors and a frequency range of DC to 10 GHz.

Both series are available with failsafe or normally open functions. Please contact Factory for latching and pulse latching design availability.

<b>Weight (max.):</b>	18.5 oz
<b>RF Impedance:</b>	50 ohms nominal
<b>Operating Temperature:</b>	-25°C to +65°C ambient
<b>Operating Life:</b>	1,000,000 cycles min.
<b>Switching Sequence:</b>	Break Before Make

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-4 GHz	1.25	0.25	80
4-8 GHz	1.40	0.40	70
8-10 GHz	1.60	0.60	60

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Failsafe	500mA	375mA	235mA	225mA
Normally Open	255mA	240mA	160mA	150mA

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

Position	NO	NC	Latching
Switching Time - mSec (Max)	20	50	N/A

**AVAILABLE OPTIONS**

OPTION 3 VOLTAGE	OPTION 4 ACTUATOR				OPTION 5 POLARITY
1 - 12 Vdc	<b>Failsafe</b>		<b>Normally Open</b>		1 - Negative
2 - 28 Vdc	<b>A - Standard</b>	<b>C - Indicators</b>	<b>L - Standard</b>	<b>N - Indicators</b>	2 - Positive
3 - 15 Vdc	<b>B - Diodes</b>	<b>D - Diodes, Indicators</b>	<b>M - Diodes</b>	<b>P - Diodes, Indicators</b>	3 - Not Applicable / USB
5 - Other	<b>BY - Diodes with USB</b>	<b>DY - Diodes, Indicators with USB</b>	<b>MY - Diodes with USB</b>	<b>PY - Diodes, Indicators with USB</b>	
6 - 24 Vdc					
6 - 24 Vdc					
7 - 5 Vdc					
	<b>Low Input Drivers with:</b>	<b>High Input Drivers with:</b>	<b>Low Input Drivers with:</b>	<b>High Input Drivers with:</b>	<b>OPTION 6 TERMINALS</b>
	<b>E - Diodes</b>	<b>EH - Diodes</b>	<b>R - Diodes</b>	<b>RH - Diodes</b>	1 - Solder Terminals
	<b>F - Diodes, Indicators</b>	<b>FH - Diodes, Indicators</b>	<b>S - Diodes, Indicators</b>	<b>SH - Diodes, Indicators</b>	2 - Circular Connector
	<b>EB - B C D, Diodes</b>	<b>EBH - B C D, Diodes</b>	<b>RB - B C D, Diodes</b>	<b>RBH - B C D, Diodes</b>	3 - Other (Specify) / USB
	<b>FB - B C D, Diodes, Indicators</b>	<b>FBH - B C D, Diodes, Indicators</b>	<b>SB - B C D, Diodes, Indicators</b>	<b>SBH - B C D, Diodes, Indicators</b>	4 - Sub Miniature D-Shell Connector

**ADDITIONAL OPTIONS**

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal
2 - High Temperature (125° C)
3 - Moisture Seal & High Temperature (125° C)
<b>OPTION 8 BRACKETS</b>
A - See Page 144

Please Note: USB integration can only be applied to Voltage Options 5Vdc, 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3. Schematics may include optional Indicator Contacts. If your Actuator Option does not include Indicator Contacts, omit them from the schematic.

For "Additional Options" please contact Factory for part number

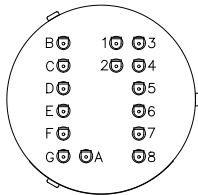
**SN/SNH**

- Option 1  
Positions
- Option 2  
Series
- Option 3  
Voltage
- Option 4  
Actuator
- Option 5  
Polarity
- Option 6  
Terminals

**DC TERMINALS FUNCTIONS**

PIN	FAILSAFE			NORMALLY OPEN		
	A, C	B, D	E, EH, EB, EBH, F, FH, FB, FBH	L, N	M, P	R, RH, RB, RBH, S, SH, SB, SBH
1	C	C+/-	+V SW	C	C+/-	+V SW
2	N/A	N/A	C RTN	N/A	N/A	C RTN
3	N/A	N/A	N/A or BCD 1	AV 1	AV 1-/+	L 1 or BCD 1
4	AV 2	AV 2-/+	L 2 or BCD 2	AV 2	AV 2-/+	L 2 or BCD 2
5	AV 3	AV 3-/+	L 3 or BCD 4	AV 3	AV 3-/+	L 3 or BCD 4
6	AV 4	AV 4-/+	L 4 or BCD 8	AV 4	AV 4-/+	L 4 or BCD 8
7	AV 5	AV 5-/+	L 5	AV 5	AV 5-/+	L 5
8	AV 6	AV 6-/+	L 6	AV 6	AV 6-/+	L 6

**TOP VIEW**



Actual markings will reflect terminal functions, not letter or number designation as shown above.

**SCHEMATICS**

Pages 132-137						
	M1	M2	M3, M4	M5	M6	M7, M8

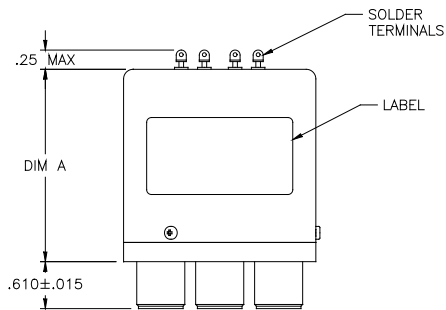
**INDICATORS**

PIN	A	B	C	D	E	F	G
	COM	1 or F/S	2	3	4	5	6

See Page 158 for Legend of Terms and Tolerances

See Page 138 for Logic & BCD Truth Table

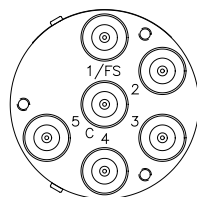
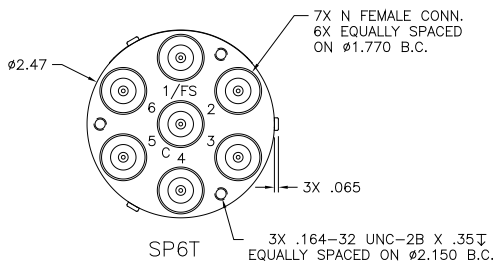
**FRONT VIEW**



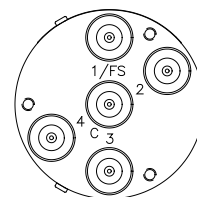
AVAILABLE OPTIONS*	OUTLINE DRAWING DIMENSION "A"
A, L	2.30
B, C, M, N	2.50
D, P	2.50
E, EH, R, RH	3.21
EB, EBH, RB, RBH	3.21
F, FH, S, SH	3.21
FB, FBH, SB, SBH	3.21

\* Consult factory for Dimension "A" when multi pin connector is desired.

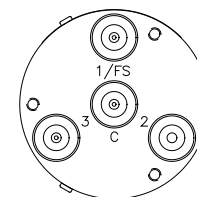
**BOTTOM VIEW**



SP5T



SP4T



SP3T