N SERIES 1P7T to 1P8T MULTI POSITION SWITCH DC-15 GHz ◆ SMA







The *N Series* features SMA connectors and a frequency range of DC to 15 GHz.

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

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

SPECIFICATIONS

Frequency	VSWR				
	(max.)	(dB max.)	(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 GHz	1.50	0.50	60		

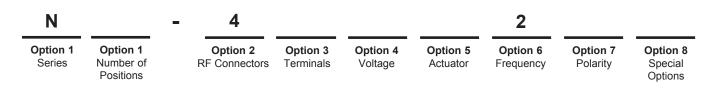
Actuator Current				
(typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	240mA	170mA	140mA
Latching	280mA	280mA	180mA	180mA

AVAILABLE OPTIONS

I	OPTION 2 RF CONNECTORS		OPTION 4 VOLTAGE		OPTION 5 ACTUATOR		OPTION 6 FREQUENCY		OPTION 8 SPECIAL OPTIONS
4 - 8	SMA	1-	6 Vdc +/- 10%		Latching Self Cut-Off	2 -	DC to 15 GHz	L-	TTL (High)
		2 -	12 Vdc +/- 10% (USB Optional)	D - E -	Diodes (USB Optional) Diodes, Indicators (USB Optional)			LL - 1 -	TTL (Low) Bracket
	OPTION 3	3 -	24-30 Vdc				OPTION 7	F -	Flange
	TERMINALS	4 -	48 Vdc +/- 10%		Normally Open		POLARITY	P -	High Power Handling
1-8	Solder	5 -	110 Vac +/- 10%	G-	Diodes, Indicators (USB Optional)	0 -	Not Applicable, USB	R -	Reset (Latching Only)
ר	Terminals	6 -	12-15 Vdc	Н-	Indicators	8 -	Positive Common	С-	BCD
2 - (Circular Connector		(USB Optional)	J-	Diodes (USB Optional)	9 -	Negative Common	U -	USB
4 - 8	Sub Miniature	7 -	18-20 Vdc	к-	Standard				
0	D-Shell	8 -	20-24 Vdc	N -	Failsafe to Position 1 - Standard				
(Connector			R -	Failsafe to Position 1 - Diodes				
5- l	USB			S -	Failsafe to Position 1 - Diodes, Indicators				

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.



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							DC TEF	MINAL FUN	CTION							
		LATC	HING			NORMALLY OPEN						NORMALLY OPEN-FAILAFE TO POSITION 1				
PIN	D	D w/ TTL	E	E w/ TTL	J	к	J, K w/ TTL	G	Н	G, H w/ TTL	Ν	R	N, R w/ TTL	s	S w/ TTL	
1	NOTE #1	NOTE #1	NOTE #1	NOTE #1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2	COM+/-	+A	COM+/-	+A	COM+/-	COM	+A	COM+/-	COM	+A	COM	COM+/-	+A	COM+/-	+A	
3	1-/+	-В	1-/+	-В	1-/+	1	-В	1-/+	1	-В	2	2-/+	-В	2-/+	-В	
4	2-/+	1	2-/+	1	2-/+	2	1	2-/+	2	1	3	3-/+	2	3-/+	2	
5	3-/+	2	3-/+	2	3-/+	3	2	3-/+	3	2	4	4-/+	3	4-/+	3	
6	4-/+	3	4-/+	3	4-/+	4	3	4-/+	4	3	5	5-/+	4	5-/+	4	
7	5-/+	4	5-/+	4	5-/+	5	4	5-/+	5	4	6	6-/+	5	6-/+	5	
8	6-/+	5	6-/+	5	6-/+	6	5	6-/+	6	5	7	7-/+	6	7-/+	6	
9	7-/+	1	7-/+	6	7-/+	7	6	7-/+	7	6	8	8-/+	7	8-/+	7	
10	8-/+	2	8-/+	7	8-/+	8	7	8-/+	8	7	N/A	N/A	8	N/A	8	
11	N/A	3	N/A	8	N/A	N/A	8	N/A	N/A	8	N/A	N/A	N/A	N/A	N/A	
Α	N/A	5	COM	COM	N/A	N/A	N/A	COM	COM	COM	N/A	N/A	N/A	COM	COM	
В	N/A	6	1	1	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	
С	N/A	7	2	2	N/A	N/A	N/A	2	2	2	N/A	N/A	N/A	2	2	
D	N/A	8	3	3	N/A	N/A	N/A	3	3	3	N/A	N/A	N/A	3	3	
E	N/A	N/A	4	4	N/A	N/A	N/A	4	4	4	N/A	N/A	N/A	4	4	
F	N/A	N/A	5	5	N/A	N/A	N/A	5	5	5	N/A	N/A	N/A	5	5	
G	N/A	N/A	6	6	N/A	N/A	N/A	6	6	6	N/A	N/A	N/A	6	6	
н	N/A	N/A	7	7	N/A	N/A	N/A	7	7	7	N/A	N/A	N/A	7	7	
I.	N/A	N/A	8	8	N/A	N/A	N/A	8	8	8	N/A	N/A	N/A	8	8	

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

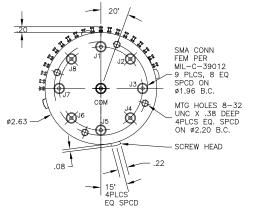
	SCHEMATICS														
	Pages 139-143														
FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34

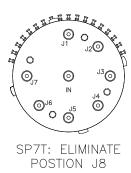
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DC TERMINAL VIEW

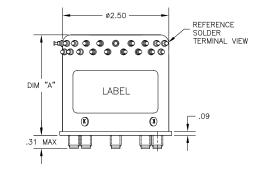
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BOTTOM VIEW





FRONT VIEW



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