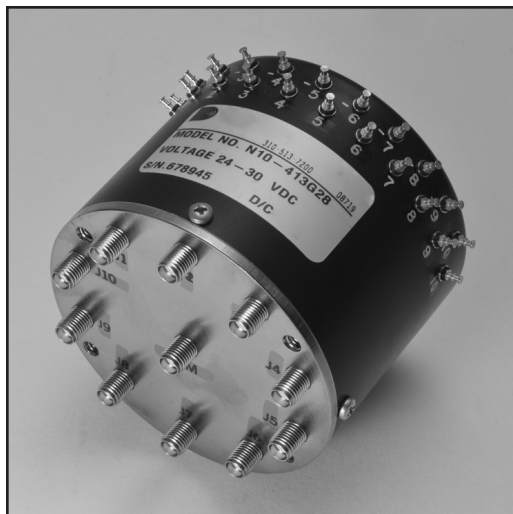


N SERIES
1P9T to 1P10T
MULTI POSITION SWITCH
DC-10.5 GHz ◆ **SMA**

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The **N Series** features SMA connectors and a frequency range of DC to 10.5 GHz.

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

RF Impedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C ambient
Operating Life:	1,000,000 cycles min.
Switching Time:	15 mSec max.
Switching Sequence:	Break Before Make
Environmental:	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	1.40	0.40	70
8-10.5 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

* 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% 2 - 12 Vdc +/- 10% (USB Optional) 3 - 24-30 Vdc 4 - 48 Vdc +/- 10% 5 - 110 Vac +/- 10% 6 - 12-15 Vdc (USB Optional) 7 - 18-20 Vdc 8 - 20-24 Vdc	Latching Self Cut-Off D - Diodes (USB Optional) E - Diodes, Indicators (USB Optional) Normally Open G - Diodes, Indicators (USB Optional) H - Indicators J - Diodes (USB Optional) K - Standard N - Failsafe to Position 1 - Standard R - Failsafe to Position 1 - Diodes S - Failsafe to Position 1 - Diodes, Indicators	2 - DC to 10.5 GHz OPTION 7 POLARITY 0 - Not Applicable, USB 8 - Positive Common 9 - Negative Common	L - TTL (High) LL - TTL (Low) 1 - Bracket F - Flange P - High Power Handling R - Reset (Latching Only) C - BCD U - USB
OPTION 3 TERMINALS				
1 - Solder Terminals 2 - Circular Connector 4 - Sub Miniature D-Shell Connector 5 - USB				

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.

N	-	4				2		
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

PIN	LATCHING				NORMALLY OPEN					NORMALLY OPEN-FAILSAFE TO POSITION 1					
	D	D w/ TTL	E	E w/ TTL	J	K	J, K w/ TTL	G	H	G, H w/ TTL	N	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-/+	-B	1-/+	-B	1-/+	1	-B	1-/+	1	-B	2	2-/+	-B	2-/+	-B
4	2-/+	1	2-/+	1	2-/+	2	1	2-/+	2	1	3	3-/+	L2	3-/+	L2
5	3-/+	2	3-/+	2	3-/+	3	2	3-/+	3	2	4	4-/+	L3	4-/+	L3
6	4-/+	3	4-/+	3	4-/+	4	3	4-/+	4	3	5	5-/+	L4	5-/+	L4
7	5-/+	4	5-/+	4	5-/+	5	4	5-/+	5	4	6	6-/+	L5	6-/+	L5
8	6-/+	5	6-/+	5	6-/+	6	5	6-/+	6	5	7	7-/+	L6	7-/+	L6
9	7-/+	6	7-/+	6	7-/+	7	6	7-/+	7	6	8	8-/+	L7	8-/+	L7
10	8-/+	7	8-/+	7	8-/+	8	7	8-/+	8	7	9	9-/+	L8	9-/+	L8
11	9-/+	8	9-/+	8	9-/+	9	8	9-/+	9	8	10	10-/+	L9	10-/+	L9
12	10-/+	9	10-/+	9	10-/+	10	9	10-/+	10	9	N/A	N/A	L10	N/A	L10
13	N/A	10	N/A	10	N/A	N/A	10	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A
A	N/A	N/A	COM	COM	N/A	N/A	N/A	COM	COM	COM	N/A	N/A	N/A	COM	COM
B	N/A	N/A	1	1	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1
C	N/A	N/A	2	2	N/A	N/A	N/A	2	2	2	N/A	N/A	N/A	2	2
D	N/A	N/A	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
H	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
J	N/A	N/A	9	9	N/A	N/A	N/A	9	9	9	N/A	N/A	N/A	9	9
K	N/A	N/A	10	10	N/A	N/A	N/A	10	10	10	N/A	N/A	N/A	10	10

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

SCHEMATICS

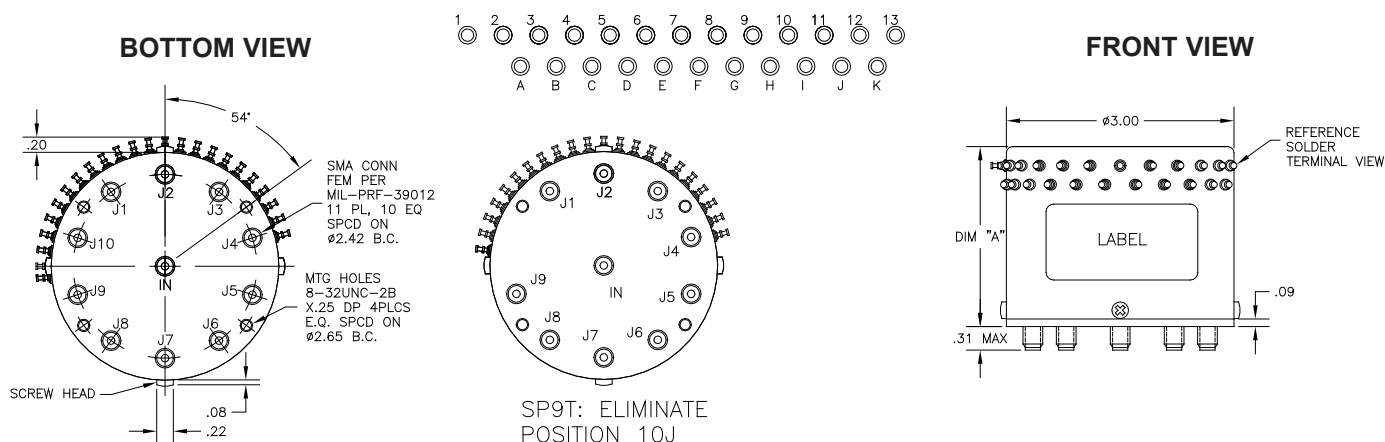
Pages 139-143

FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34
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OUTLINE DRAWING DIMENSION "A"

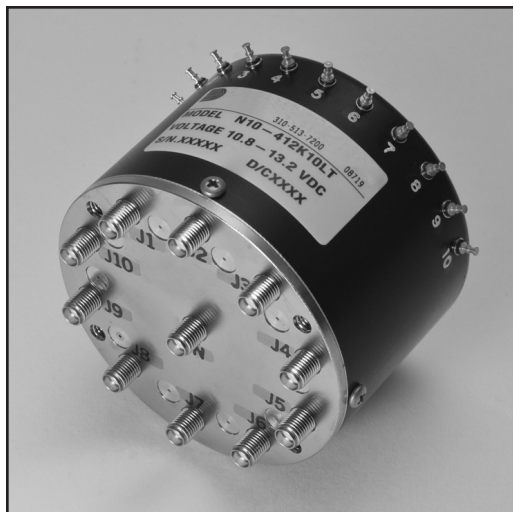
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DC TERMINAL VIEW



N SERIES
1P9T to 1P10T MULTI POSITION
50 OHM TERMINATED SWITCH
DC-10.5 GHz ◆ SMA

**Click Here to
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The **N Series** features SMA connectors and a frequency range of DC to 10.5 GHz.

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

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

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Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-3 GHz	1.20	0.20	80
3-8 GHz	1.40	0.40	70
8-10.5 GHz	1.50	0.50	60

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	300mA	200mA	140mA
Latching	280mA	353mA	218mA	175mA

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

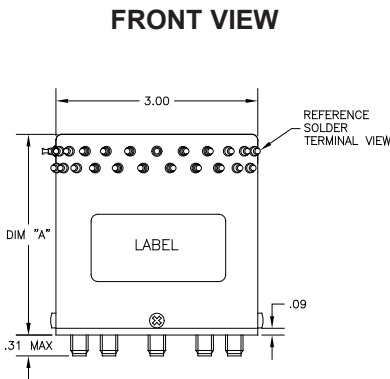
AVAILABLE OPTIONS

OPTION 2 RF CONNECTORS		OPTION 4 VOLTAGE		OPTION 5 ACTUATOR	OPTION 6 FREQUENCY		OPTION 8 SPECIAL OPTIONS	
4 - SMA		1 - 6 Vdc +/- 10% 2 - 12 Vdc +/- 10% (USB Optional)		Latching Self Cut-Off	2 - DC to 10.5 GHz		L - TTL (High)	
				D - Diodes (USB Optional) E - Diodes, Indicators (USB Optional)			LL - TTL (Low)	
OPTION 3 TERMINALS		3 - 24-30 Vdc 4 - 48 Vdc +/- 10%		Normally Open	OPTION 7 POLARITY		1 - Bracket F - Flange P - High Power Handling	
1 - Solder Terminals		5 - 110 Vac +/- 10% 6 - 12-15 Vdc (USB Optional)		G - Diodes, Indicators (USB Optional)	0 - Not Applicable, USB 8 - Positive Common		R - Reset (Latching Only) C - BCD	
2 - Circular Connector		7 - 18-20 Vdc 8 - 20-24 Vdc		H - Indicators (USB Optional) J - Diodes K - Standard	9 - Negative Common		T - Terminated U - USB	

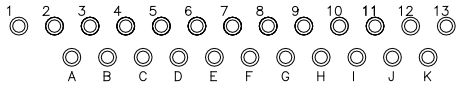
Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3.

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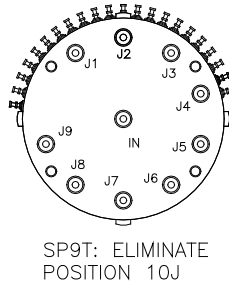
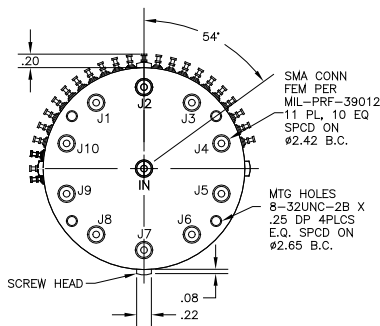
N	-	4				2		
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options



DC TERMINAL VIEW



BOTTOM VIEW



DC TERMINAL FUNCTION

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

Pages 139-143

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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