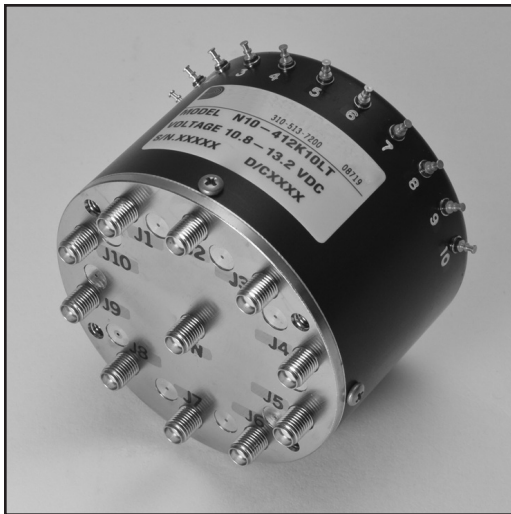


N SERIES
1P9T to 1P10T MULTI POSITION
50 OHM TERMINATED SWITCH
DC-10.5 GHz ◆ SMA

Click Here to Request Quote



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)

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

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.

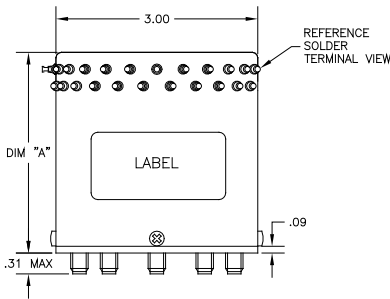
N	-	4				2		
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options

High quality microwave and millimeter wave components and subsystems. Visit Ducommun RF Products online at www.ducommun.com or contact us at 310.513.7200. All specifications are subject to change without notice.

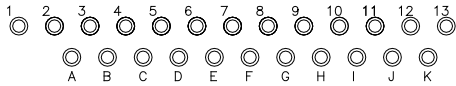
DC TERMINAL FUNCTION

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

FRONT VIEW



DC TERMINAL VIEW



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

SCHEMATICS

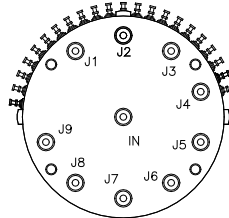
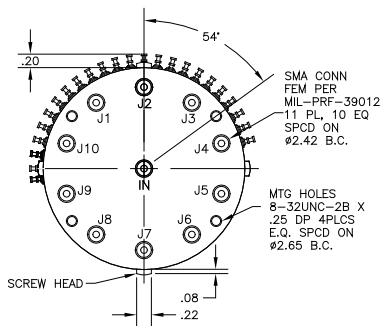
Pages 139-143

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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BOTTOM VIEW



SP9T: ELIMINATE POSITION 10J