WN SERIES
1P7T to 1P10T
MULTI POSITION SWITCH
DC-22 GHz ◆ SMA

Ducommun

The **WN Series** features SMA connectors and a frequency range of DC to 22 GHz.

This series is available with normally open functions only.

RF Impedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C ambient
Operating Life:	2,000,000 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	1.15	0.15	80
3-8 GHz	1.25	0.25	70
8-12.4 GHz	1.30	0.30	60
12.4-18 GHz	1.40	0.40	60
18-22 GHz	1.60	0.60	55

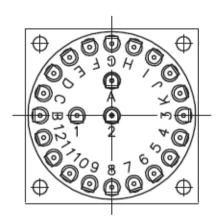| Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	160mA	200mA	320mA	400mA

* 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%	**Latching Self Cut-Off**	3 - DC to 22 GHz	L - TTL (High)
	2 - 12 Vdc +/- 10%	D- Diodes		LL - TTL (Low)
	3 - 24-30 Vdc	E- Diodes, Indicators		1 - Bracket
OPTION 3 TERMINALS	4 - 48 Vdc +/- 10%		**OPTION 7 POLARITY**	R - Reset (Latching Only)
1 - Solder Terminals	5 - 110 Vac +/- 10%	**Normally Open**	0 - Not Applicable	C - BCD
2 - Circular Connector	6 - 12-15 Vdc	G- Diodes, Indicators	8 - Positive Common	T - Terminated
3 - Other (Specify) / Molex for USB Option	7 - 18-20 Vdc	H- Indicators	9 - Negative Common	U - USB
4 - Sub Miniature D-Shell Connector	8 - 20-24 Vdc	J- Diodes		
		K- Standard		
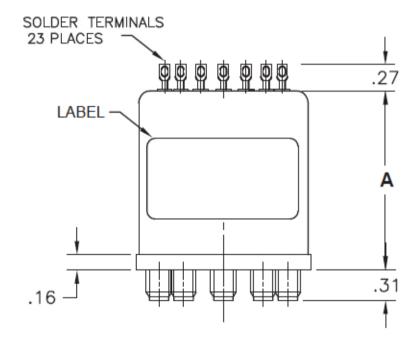
WN		-	4				3		
Option 1 Series	**Option 1** Number of Positions		**Option 2** RF Connectors	**Option 3** Terminals	**Option 4** Voltage	**Option 5** Actuator	**Option 6** Frequency	**Option 7** Polarity	**Option 8** Special Options

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.

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TOP VIEW

FRONT VIEW

SOLDER TERMINALS
23 PLACES

LABEL

.27

A

.16

.31

BOTTOM VIEW

DC TERMINAL FUNCTION

PIN	NORMALLY OPEN					
	J	K	J, K w/ TTL	G	H	G, H w/ TTL
1	N/A	N/A	+A	N/A	N/A	+A
2	COM+/-	COM	-B	COM+/-	COM	-B
3	1-/+	1	1	1-/+	1	1
4	2-/+	2	2	2-/+	2	2
5	3-/+	3	3	3-/+	3	3
6	4-/+	4	4	4-/+	4	4
7	5-/+	5	5	5-/+	5	5
8	6-/+	6	6	6-/+	6	6
9	7-/+	7	7	7-/+	7	7
10	8-/+	8	8	8-/+	8	8
11	9-/+	9	9	9-/+	9	9
12	10-/+	10	10	10-/+	10	10
A	N/A	N/A	N/A	COM	COM	COM
B	N/A	N/A	N/A	1	1	1
C	N/A	N/A	N/A	2	2	2
D	N/A	N/A	N/A	3	3	3
E	N/A	N/A	N/A	4	4	4
F	N/A	N/A	N/A	5	5	5
G	N/A	N/A	N/A	6	6	6
H	N/A	N/A	N/A	7	7	7
I	N/A	N/A	N/A	8	8	8
J	N/A	N/A	N/A	9	9	9
K	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.	29	29	30	29	29	30

OUTLINE DRAWING DIMENSION "A"

	2.0"	2.0"	3.0"	2.50"	2.50"	3.0"

1.50
.75

1.50

.75

4X.149

.90
1.80

1.80
.90

.90

SMA CONN FEM
PER MIL-C-39012
11 PL, 10 EQ. SPCD
ON ø1.400 B.C.

SP10T

SP7T

SP8T

SP9T