

**D4 SERIES
SPDT SWITCH
DC-12.4 GHz ◆ N, BNC, TNC**

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The **D4 Series** features N, BNC or TNC connectors and a frequency range of DC to 12.4 GHz.

This series is available with fail-safe, latching self cut-off or pulse latching 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	1.35	0.35	70
8-12.4 GHz	1.50	0.50	60

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Fail-safe	240mA	240mA	170mA	190mA
Latching	140mA	140mA	130mA	130mA

* 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
1 - N 2 - BNC 3 - TNC	1 - 6 Vdc +/- 10% 2 - 12 Vdc +/- 10% 3 - 24-30 Vdc 4 - 48 Vdc +/- 10% 5 - 110 Vac +/- 10% 6 - 12-15 Vdc 7 - 18-20 Vdc 8 - 20-24 Vdc	Fail-safe A - Standard B - Indicators M - Diodes Q - Diodes, Indicators	2 - DC to 12.4 GHz	L - TTL (High) LL - TTL (Low) P - High Power Handling
OPTION 3 TERMINALS		Latching Self Cut-Off D - Diodes E - Diodes, Indicators	OPTION 7 POLARITY	
1 - Solder Terminals 2 - Circular Connector 4 - Sub M iniature D-Shell Connector		Pulse Latching C - Standard F - Indicators Y - Diodes L - Diodes, Indicators	0 - Not Applicable 8 - Positive Common 9 - Negative Common	
		Normally Open K - Standard H - Indicators J - Diodes G - Diodes, Indicators		

D4

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Option 1
Series

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	FAILSAFE							LATCHING							NORMALLY OPEN					
	A	M	A, M w/ TTL	B	Q	B, Q w/ TTL	C, Y	C, Y w/ TTL	D	D w/ TTL	E	E w/ TTL	F, L	F, L w/ TTL	J	K	J, K w/ TTL	G	H	G, H w/ TTL
1	1	+1	+A	COM	COM	COM	COM+/-	+A	COM+/-	+A	COM	COM	COM	COM	COM+/-	C	+A	COM	COM	2
2	N/A	N/A	N/A	1	1	1	N/A	-B	N/A	-B	1	1	1	1	N/A	N/A	-B	1	1	1
3	N/A	N/A	N/A	2	2	2	N/A	N/A	N/A	N/A	2	2	2	2	N/A	N/A	N/A	2	2	COM
4	2	-2	-B	1	+1	+A	1-/+	1	1-/+	1	COM+/-	+A	COM+/-	+A	1-/+	1	1	COM+/-	COM	+A
5	N/A	N/A	2	2	-2	-B	2-/+	2	2-/+	2	1-/+	-B	1-/+	-B	2-/+	2	2	1-/+	1	-B
6	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	2-/+	1	2-/+	1	N/A	N/A	N/A	2-/+	2	1
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A	2	N/A	N/A	N/A	N/A	N/A	2

SCHEMATICS

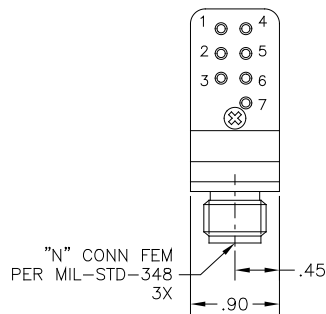
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FIG.	1	1	2	1	1	2	15	16	9	10	9	10	15	16	21	21	22	21	21	22
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OUTLINE DRAWING DIMENSION "A"

1.85"	1.85"	1.85"	1.85"	1.85"	1.85"	1.85"	1.85"	2.10"	1.85"	2.10"	1.85"	2.10"	1.85"	2.10"	1.85"	1.85"	2.10"	1.85"	1.85"	2.10"
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SIDE VIEW



FRONT VIEW

