

## SPDT Switches

50 Years of  
Excellence

## Series 022 (External Termination)

## SPDT / DC-26.5 GHz / SMA

## RF Performance

Freq Range (GHz)	DC-3	3-8	8-12.4	12.4-18	18-24	24-26.5
VSWR (Max)	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1
Insertion Loss (Max dB)	0.2	0.3	0.4	0.5	0.6	0.7
Isolation (Min dB)	80	70	60	60	50	45

## Additional Specifications

RF Impedance . . . . .	50 ohms nominal
Actuating Voltage* . . . . .	28 Vdc
Actuating Current* . . . . .	280 mA (max)
Switching Time. . . . .	15 ms (max)
Switching Sequence. . . . .	Break Before Make
Operating Mode* . . . . .	Failsafe
Operating Ambient Temperature . . . . .	-35°C to +70°C
Operating Life . . . . .	1 Million Cycles per Position
Designed to Meet MIL-S-3928	



Standard SEM models from this series are available from stock. See page 235 for a complete listing of stock switches.

## Options Available

GROUP 2  
ACTUATION

- A - FAILSAFE
- B - LATCHING
- D - NORM OPEN

GROUP 3  
OPTIONS

- 1 - 50-OHM TERMINATION
- 2 - INDICATOR CIRCUITRY
- 3 - SUPPRESSION DIODES
- 4 - TTL LOGIC HIGH
- 7 - SELF-DE-ENERGIZING CIRCUITRY
- 9 - OTHER (SPECIFY)
- V - MOSFET DRIVER

GROUP 4  
RF  
CONNECTORS

- A - SMA
- G - OTHER (SPECIFY)

GROUP 5  
TERMINALS

- 1 - SOLDER (STANDARD)
- 2 - POWER CONNECTOR, FAST DISCONNECT (STANDARD)
- 3 - POWER CONNECTOR, FAST DISCONNECT (SUB MIN "D")
- 4 - SOLDER LOOP
- 5 - OTHER (SPECIFY)

GROUP 6  
VOLTAGE

- B - 12 VDC
- C - 24 VDC
- D - 28 VDC
- E - 48 VDC
- G - OTHER (SPECIFY)
- H - 15 VDC
- I - 18 VDC

GROUP 7  
FREQUENCY

- 0 - DC - 1 GHz
- 1 - DC - 3 GHz
- 2 - DC - 8 GHz
- 3 - DC - 12.4 GHz
- 4 - DC - 18 GHz
- 5 - DC - 18.5 GHz
- 6 - DC - 26.5 GHz
- 7 - OTHER (SPECIFY)

GROUP 8  
POLARITY

- A - COMMON PLUS
- B - COMMON MINUS
- C - NOT RELEVANT TO APPLICATION OR SWITCHES WITH LOGIC

GROUP 9  
MOUNTING

- 0 - STANDARD MOUNTING HOLES
- 3 - OTHER (SPECIFY)

Switch Height (A)  
for Selected Options

DIM A ±.03	GROUP 2 ACTUATION	GROUP 3 OPTIONS
1.67	A, B, D	1,3
2.01	A, D	1,2,3
2.01	B	1,2,3,7
2.26	A, D	1,2,3,4, or 5,V
2.26	B	1,2,3,4 or 5,7,V
2.26**	A,D	1,2,3,4 or 5,V
2.26**	B	1,2,3,4, or 5,7,V

\* Specifications for 28 Vdc, Failsafe configuration.

\*\* Dimension for switches with Standard Narda Power Connector M24308/3-1 mating with M24308/2-1.

NOTE: Series 026 is offered with internal terminations (see page 246)

## SPDT Switches

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## Series 026 (Internal Termination)

## SPDT / DC-26.5 GHz / SMA

## RF Performance

Freq Range (GHz)	DC-3	3-8	8-12.4	12.4-18	18-24	24-26.5
VSWR (Max)	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1
Insertion Loss (Max dB)	0.2	0.3	0.4	0.5	0.6	0.7
Isolation (Min dB)	80	70	60	60	50	45

## Additional Specifications

RF Impedance . . . . .	50 ohms nominal
Actuating Voltage . . . . .	28 Vdc
Actuating Current . . . . .	Failsafe: 280 mA (max) Latching: 200 mA (max)
Switching Time . . . . .	15 ms (max)
Switching Sequence . . . . .	Break Before Make
Operating Mode . . . . .	Failsafe
Operating Ambient Temperature . . . . .	-35°C to +70°C
Operating Life . . . . .	1 Million Cycles per Position
Designed to	Meet MIL-S-3928



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- 3 - SUPPRESSION DIODES
- 4 - TTL LOGIC HIGH
- 7 - SELF-DE-ENERGIZING CIRCUITRY
- 9 - OTHER (SPECIFY)
- V - MOSFET DRIVER

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RF  
CONNECTORS

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- G - OTHER (SPECIFY)

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TERMINALS

- 1 - SOLDER (STANDARD)
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- 4 - SOLDER LOOP
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VOLTAGE

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- 1 - DC - 3 GHz
- 2 - DC - 8 GHz
- 3 - DC - 12.4 GHz
- 4 - DC - 18 GHz
- 5 - DC - 18.5 GHz
- 6 - DC - 26.5 GHz
- 7 - OTHER (SPECIFY)

GROUP 8  
POLARITY

- A - COMMON PLUS
- B - COMMON MINUS
- C - NOT RELEVANT TO APPLICATION OR SWITCHES WITH LOGIC

GROUP 9  
MOUNTING

- 0 - STANDARD MOUNTING HOLES
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Switch Height (A)  
for Selected Options

DIM A ±.03	GROUP 2 ACTUATION	GROUP 3 OPTIONS
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\*\* Dimension for switches with Standard Narda Power Connector M24308/3-1 mating with M24308/2-1.

NOTE: Series 022 is offered with external terminations (see page 240)