Series 023

SPDT / DC-12.4 GHz / N, TNC

RF Performance

Frequency Range (GHz)	DC-3	3-8	8-12.4
VSWR (Max)	1.2:1	1.35:1	1.5:1
Insertion Loss (Max dB)	0.2	0.35	0.5
Isolation (Min dB)	80	70	60

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

Additional Specifications

RF Impedance . . . . . 50 ohms nominal
Actuating Voltage* . . . . . 28 Vdc
Actuating Current* . . . . . Failsafe: 180 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

Options Available

GROUP 2 ACTUATION
- A - FAILSAFE
- B - LATCHING
- D - NORM OPEN

GROUP 3 OPTIONS
- 0 - NONE
- 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
- D - N
- E - TNC
- 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
- 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
2.00	A, D	0,3,4 or 5,V
2.00	B	0,3,4 or 5,V
2.24**	B	2,3,4, or 5,7,V
2.24**	A, D	2,3,4 or 5,V

* Specifications for 28 Vdc, 25°C

** Dimension for switches with Standard Narda Power Connector MS3113H-10-6P mating with MS3116E-10-6S

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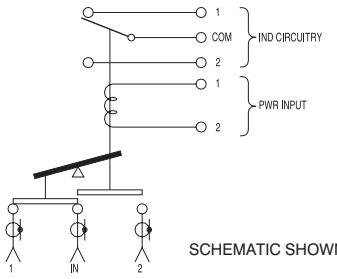
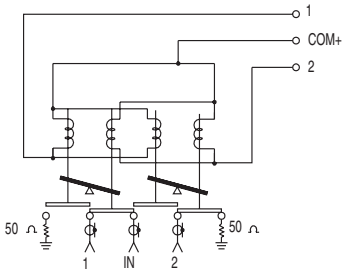
Typical Schematics



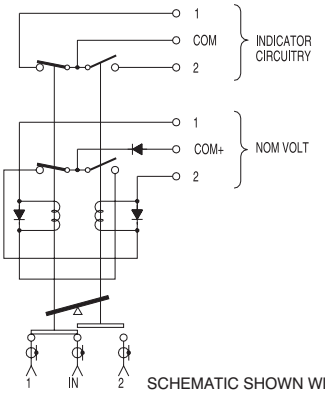
SCHEMATIC SHOWN IN FAILSAFE POSITION

Failsafe SPDT switch with indicator circuitry. (A2)



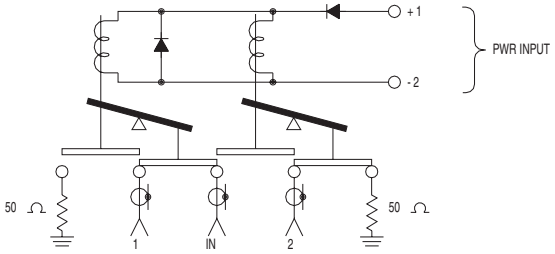
SCHEMATIC SHOWN WITH POSITION 1 CLOSED

Latching common plus SPDT terminated switch. (B1)



SCHEMATIC SHOWN WITH POSITION 1 CLOSED

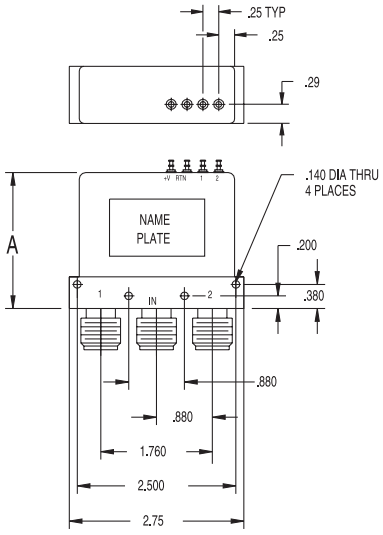
Latching, common plus SPDT switch with indicator circuitry, self de-energizing circuitry & suppression diodes. (B237)

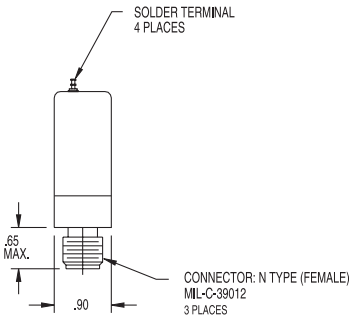


SCHEMATIC SHOWN IN FAILSAFE POSITION

Failsafe SPDT terminated switch with suppression diodes. (A13)

Typical Outline Drawings





NOTE: Switches with side-mounted terminals must have the letter “S” added to the terminal designation in Group 5.

EXAMPLE: “1 S” means switch with solder terminals located on the side of the can.