

#### Features:

- Broadband: DC - 12 GHz
- Extended Life: 2 million cycles
- High Power: 1Kw CW at 400 MHz
- Low Insertion Loss
- Available in 3, 4, 5 or 6 Positions

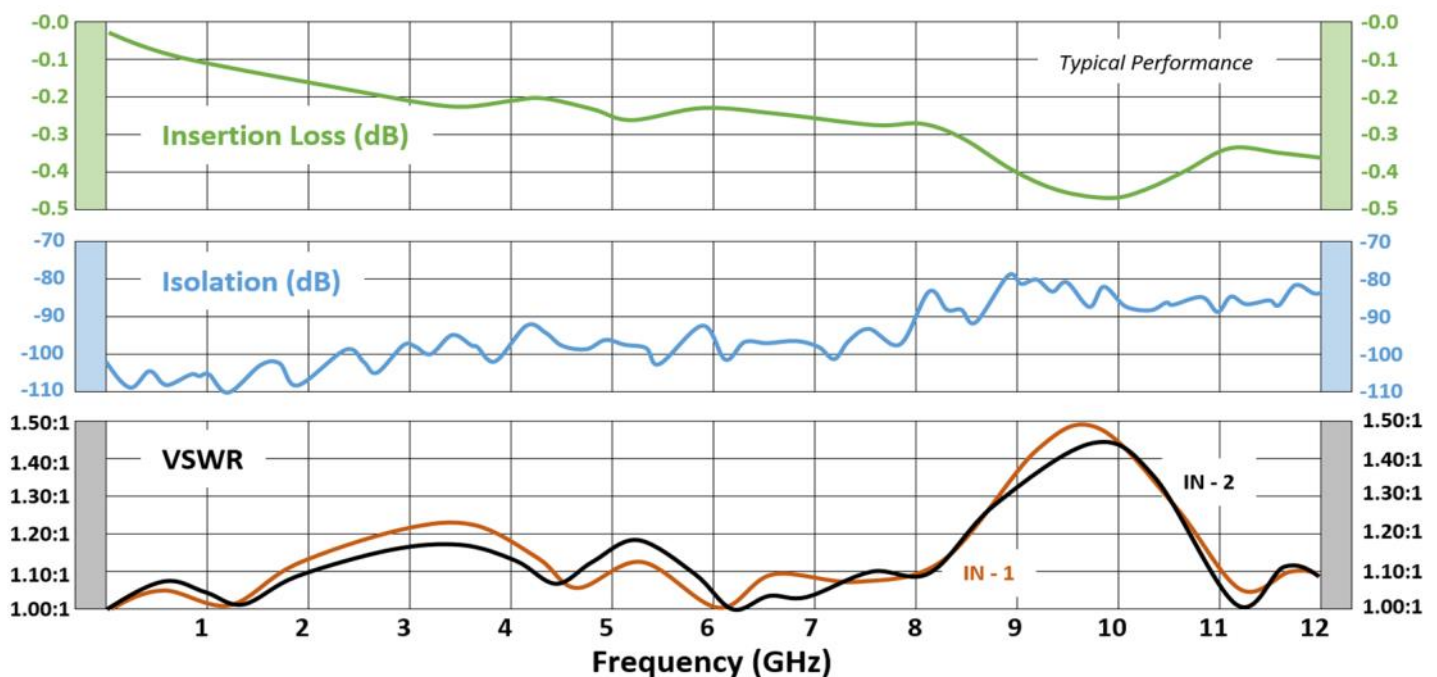
#### RF Specification:

Frequency, (GHz)	DC-1	1-4	4-12
Ins. Loss dB (max)	0.30	0.40	0.50
Isolation dB (min)	70	60	60
VSWR (max)	1.25:1	1.40:1	1:70:1
Power Handling, Watts (CW)*	600	300	200
Switching Time	20 mS (max)		
Switching Action	Break-Before-Make		
Impedance	50 ohms		

#### Description:

High reliability and low loss performance makes these switches ideal for all testing applications. Selected position remains active with constant voltage, all positions are open when voltage is removed. High RF power handling.

**Applications:** lab testing and production ATE. **Markets:** defense, telecom, aerospace and compliance testing.



Specifications	
Oper Temp	-25° C to +70° C
Oper Temp	-54° C to +85° C (ruggedized version)
Storage Temp	-55° C to +100° C
Humidity	Moisture resistant or immersion sealing available
Shock	MIL-STD-202 Method 213, Condition D, 500G (non oper)
Vibration	MIL-STD-202 Method 214, Condition D, 10G RMS (non oper)
Cycle Life	2M cycles (may vary based on selected options)

Voltages and Current				
Nominal Voltage, Vdc	12	15	24	28
Voltage Range, Vdc	11-13	14-16	22-26	26-30
Current (mA) **	600	700	240	280

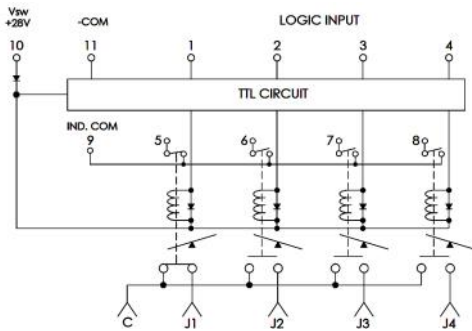
\*\* at nominal voltage and +20°C

Popular Models	
13S-N2N3-1212	SP3T, TYPE-N, NO, Indicators, DC-12GHz, 12VDC
13S-N2N4-1212	SP3T, TYPE-N, NO, +com, DC-12GHz, 12VDC
14S-N2N3-1212	SP4T, TYPE-N, NO, Indicators, DC-12GHz, 12VDC
14S-N2N3-1212-P	SP4T, TYPE-N, NO, Indicators, DC-12GHz, 12VDC, Solder Pin
16S-N2N4-1224-T	SP6T, TYPE-N, NO, +com, DC-12GHz, 24VDC, TTL
16S-N2N3-1224-T	SP6T, TYPE-N, NO, Indicators, DC-12GHz, 24VDC, TTL
16S-N2N3-1228-T	SP6T, TYPE-N, NO, Indicators, DC-12GHz, 28VDC, TTL

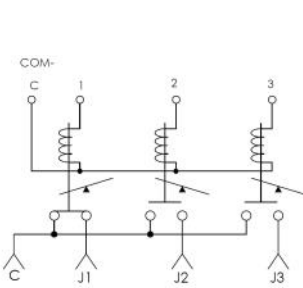
- See backside for a full list of available features and options

- Contact us for high power and custom designs

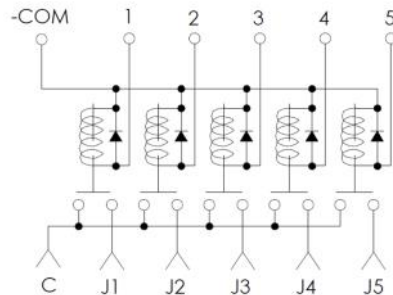
\* +25°C, sea level, <1.20:1 load VSWR, cold switching



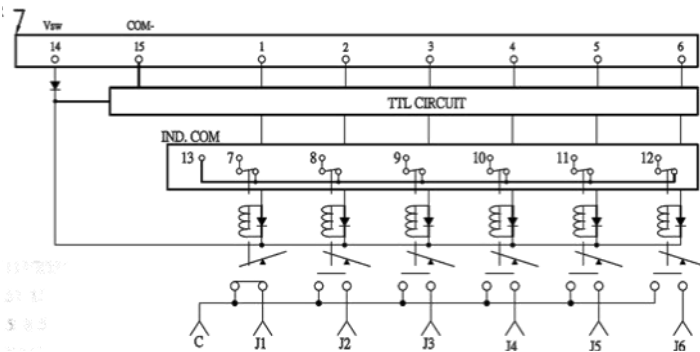
(SP4T w/ TTL & Indicators) Position #1 Energized



(SP3T) Position #1 Energized



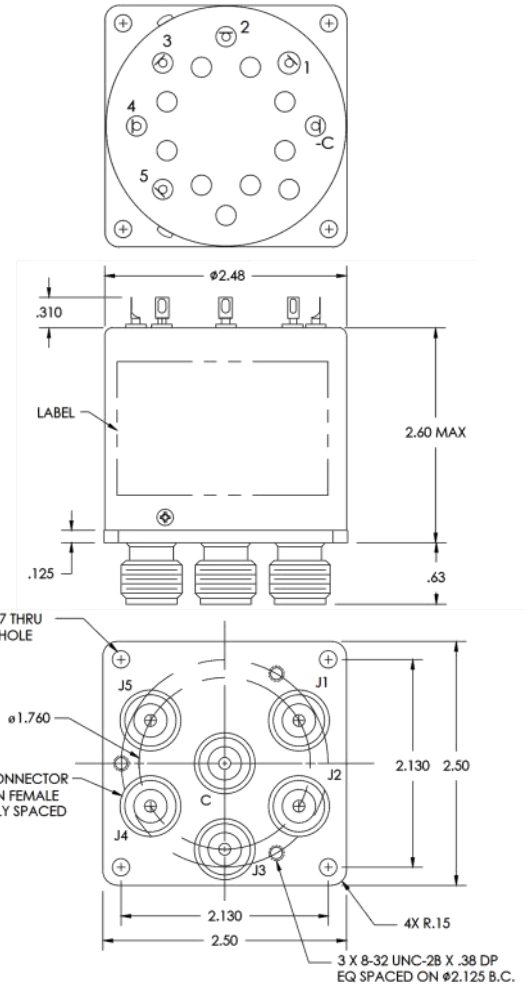
(SP5T) All Open Position



(SP6T w/TTL & Indicators) Position #1 Energized

### Schematics

### Outline

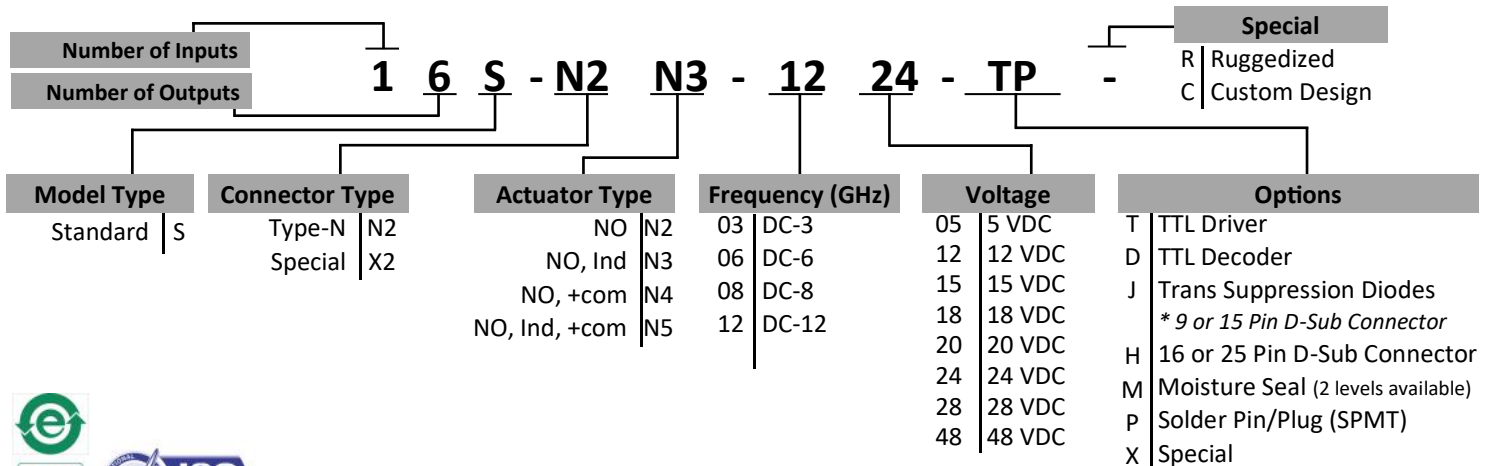


SP5T with Solder Pins

### Model Numbering System

Example: 16S-N2N3-1224-TP

(SP6T, Standard Body, TYPE-N, Normally Open, Indicators, DC-12GHz, 24VDC, TTL, Solder Pins)



\* D-Sub connectors are standard for SPMT, no designation on model number needed

