Single-Pole-Multi-Throw (SP7T-SP8T)

Normally Open - SMA - DC to 18 GHz

Series: 17S and 18S

Features:

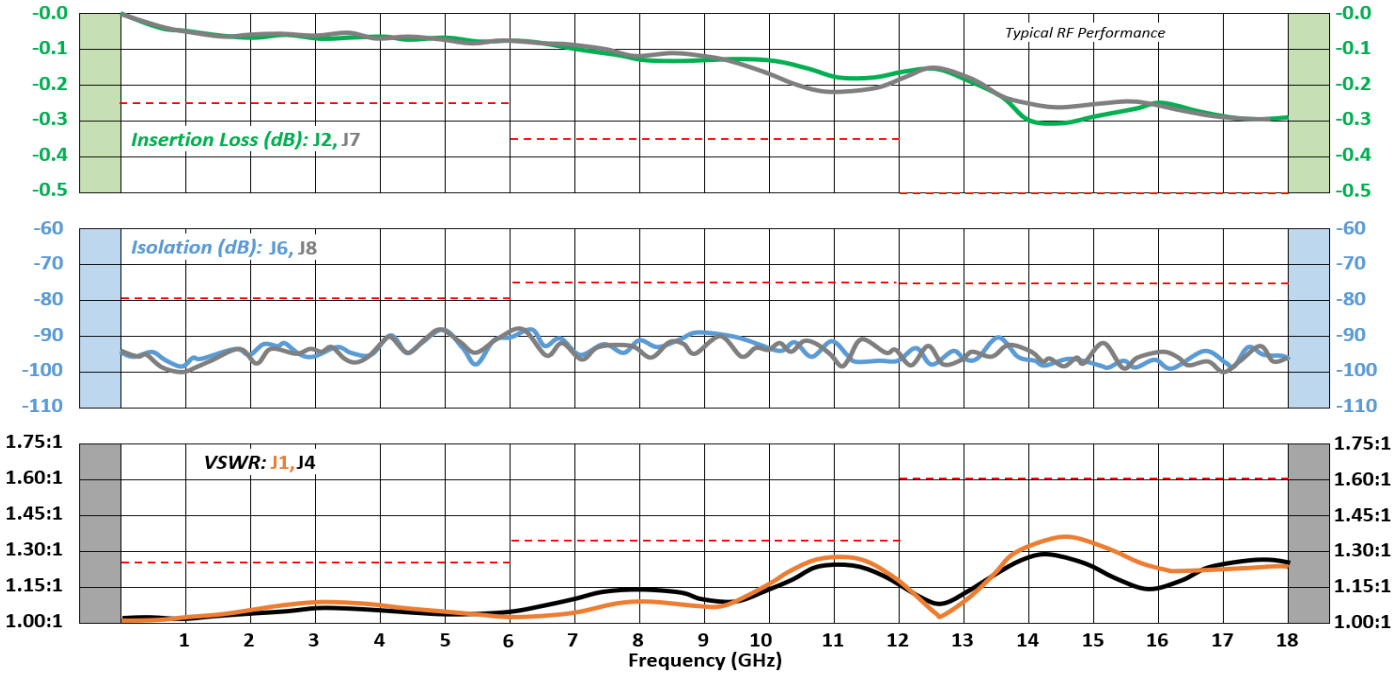
- Broadband: DC - 18 GHz
- Extended Life: 2 million cycles
- Excellent Repeatability
- Low Insertion Loss
- Available in 7 or 8 Positions

RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18
Ins. Loss dB (max)	0.25	0.35	0.50
Isolation dB (min)	80	75	75
VSWR (max)	1.25:1	1.35:1	1.60:1
Switching Time	20 mS (max)		
Switching Action	Break-Before-Make		
Impedance	50Ω (Switch and Terminations)		

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. A wide selection of features available to meet most requirements. Good low to medium power handling. **Applications:** lab testing to production ATE requirements. **Markets:** defense, telecom, aerospace, enterprise, consumer and IoT.



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	5M cycles (may vary based on selected options)

Voltages and Current			
Nominal Voltage, Vdc	12	24	28
Voltage Range, Vdc	11-13	22-26	26-30
Set Current (mA)*	420	175	140

Popular Models	
18S-S2N3-1812	SP8T, SMA, NO, Ind, DC-18GHz, 12VDC
18S-S2N4-1812	SP8T, SMA, NO, +com, DC-18GHz, 12VDC
17S-S2N3-1812	SP7T, SMA, NO, Ind, DC-18GHz, 12VDC
17S-S2N4-1812	SP7T, SMA, NO, +com, DC-18GHz, 12VDC
18S-S2N4-1824-T	SP8T, SMA, NO, +com, DC-18GHz, 24VDC, TTL
18S-S2N3-1824-T	SP8T, SMA, NO, Ind, DC-18GHz, 24VDC, TTL
18S-S2N3-1828-T	SP8T, SMA, NO, Ind, DC-18GHz, 28VDC, TTL

- See backside for a full list of available features and options
- Contact us for high power and custom designs

** at nominal voltage and +20°C*

ISO 9001

RoHS Compliant

 DS32020/C

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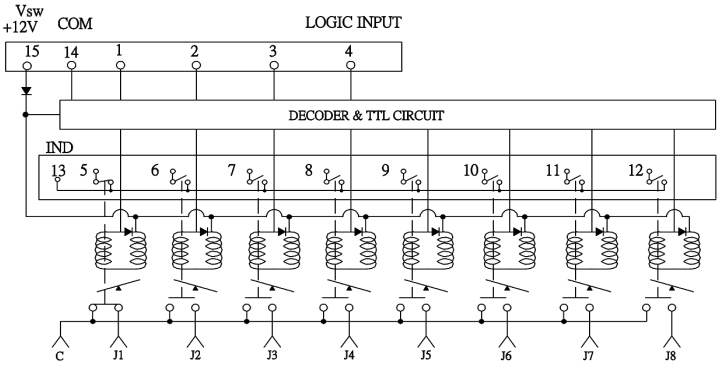
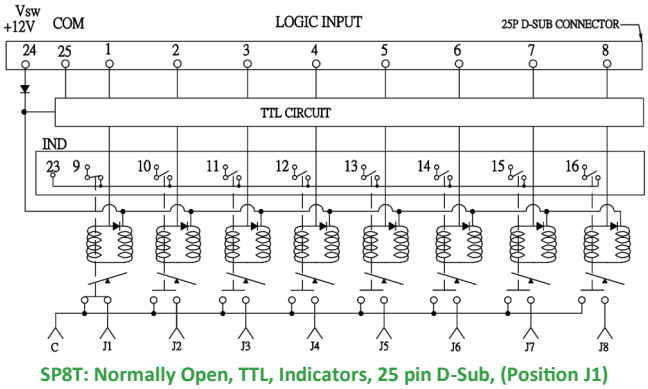
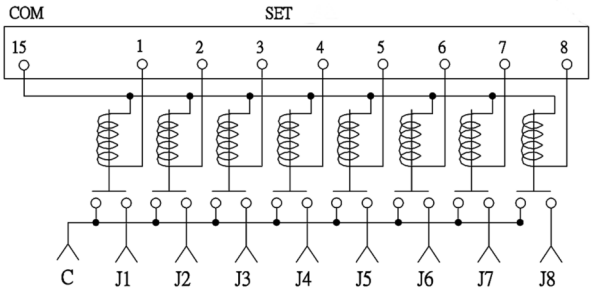


SP8T: Normally Open, Decoder, TTL, Indicators, 15 Pin D-Sub, (Position J1)



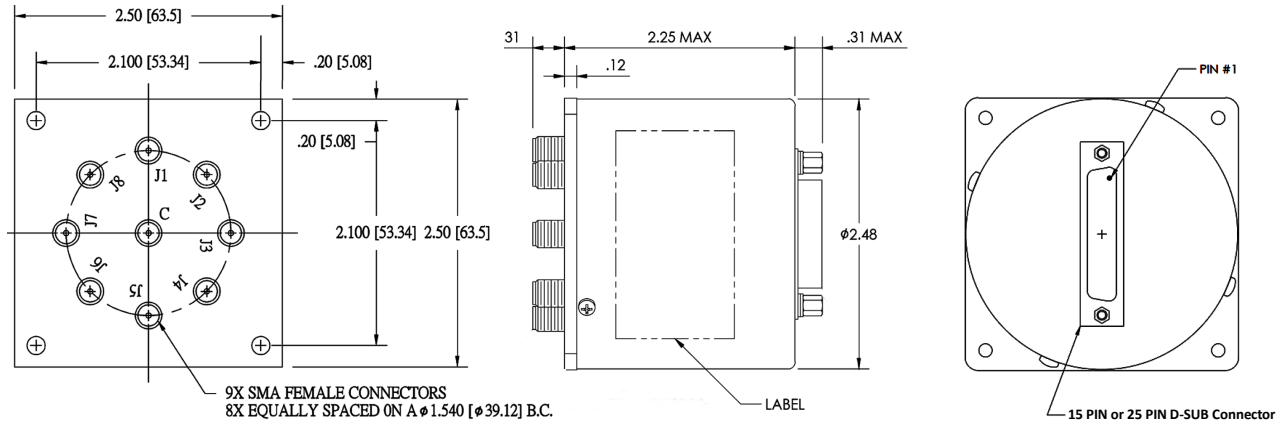
SP8T: Normally Open, TTL, Indicators, 25 pin D-Sub, (Position J1)

Schematics



SP8T: Normally Open,
15 pin D-Sub,
(All Open Positions)

Outline



Model Numbering System

Example: 18S-S2N3-1824-T

(SP8T, SMA, Normally Open, Indicators, DC-18GHz, 24VDC, TTL)

Number of Inputs
Number of Outputs

**1 8 S - S2 N3 - 18 24 - T - **

Special

R	Ruggedized
C	Custom Design

Model Type

Standard	S

Connector Type

SMA	S2

Actuator Type

Normally Open	N2
Normally Open, Ind	N3
Normally Open, +com	N4
Normally Open, +com, Ind	N5

Frequency

03	DC-3 GHz
06	DC-6 GHz
08	DC-8 GHz
12	DC-12 GHz
18	DC-18 GHz
XX	Special

Voltage

05	5 VDC
12	12 VDC
15	15 VDC
18	18 VDC
20	20 VDC
24	24 VDC
28	28 VDC
48	48 VDC

Options

T	TTL Driver
D	TTL Decoder
J	Trans Suppression Diodes
	**15 Pin D-Sub Connector*
H	16 or 25 Pin D-Sub Connector
M	Moisture Seal (2 levels available)
P	Solder Pin/Plug (SPMT)
X	Special

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

RoHS Compliant

ISO 9001