Single-Pole-Double-Throw (SPDT)

Latching - SMA - Standard/Narrow Body - DC to 18 GHz

Features:

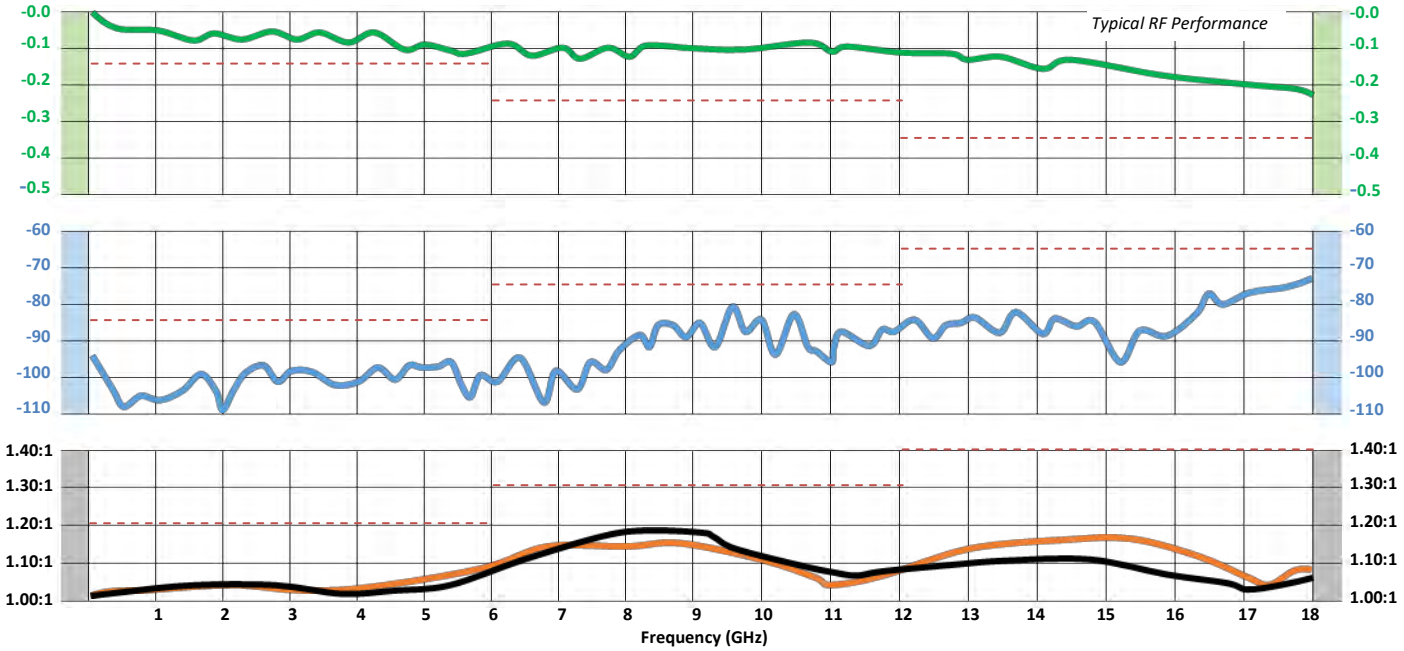
- Broadband: DC - 18 GHz
- Extended Life: 5 million cycles
- Excellent Repeatability
- Low Insertion Loss
- High Isolation

RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18
Ins. Loss dB (max)	0.15	0.25	0.35
Isolation dB (min)	80	75	65
VSWR (max)	1.20:1	1.30:1	1.40:1
Switching Time	20 mS (max)		
Switching Action	Break-Before-Make		
Impedance	50 Ω		

Description:

High reliability and low loss performance makes these switches ideal for testing and end product applications requiring energy conservation. A wide selection of connectors and other features is available to meet most requirements. Capable of handling low to medium RF power , higher power solutions available. **Applications:** test stations, stand-by switch, Tx/Rx antenna switch, distribution switch. **Markets:** defense, telecom, aerospace, enterprise, consumer and IoT.



Specifications	
Oper Temp	-25° C to +65° C
Oper Temp	-54° C to +85° C (M 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	5	12	15	24	28
Voltage Range, Vdc	4.5-6	11-13	14-16	22-26	26-30
Current (mA)*	250	200	160	110	65

** at nominal voltage and +20°C*

Popular Models	
SPDT-0C-18A	SPDT, SMA, Latching, DC-18GHz, 12VDC
SPDT-0C-18A-D	SPDT, SMA, Latching, DC-18GHz, 12VDC, TTL
SPDT-0C-18D	SPDT, SMA, Latching, DC-18GHz, 24VDC
SPDT-0D-18B	SPDT, SMA, Latching, DC-18GHz, 15VDC, Indicator

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

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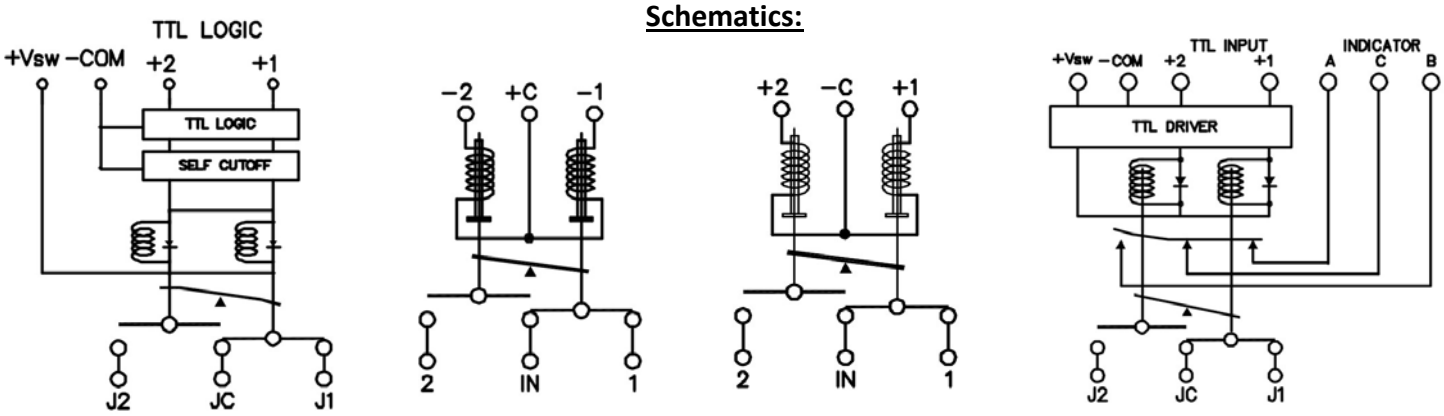
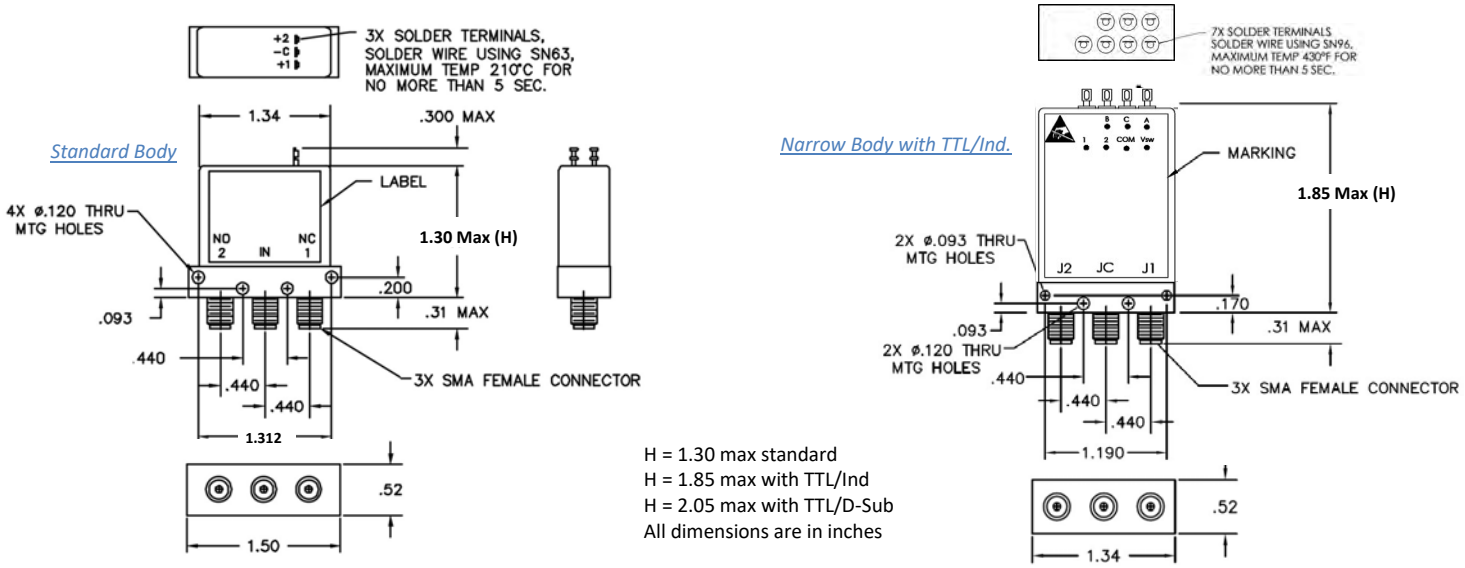
Schematics:



TTL + Self Cutoff | Positive Common | Standard | TTL + Indicators

Outline:



H = 1.30 max standard
H = 1.85 max with TTL/Ind
H = 2.05 max with TTL/D-Sub
All dimensions are in inches

Model Numbering System

Example: SPDT-0C-18A-D-S9

(SPDT, SMA Connector, Latching without indicator, DC-18GHz, 12VDC, TTL Driver, D-Sub Control)

S P D T - 0 C - 1 8 A - D - S9

Connector Type	
0: SMA	6: SMB
1: N	7: 7/16 DIN
2: TNC	8: BNC
3: RF PIN	9: K (2.92mm)
4: F (75Ω)	10: Mini DIN
5: SC	

Actuator Type
C : Latching without Indicator
D : Latching with Indicator

Frequency Range
03 : DC-3GHz
08 : DC-8GHz
12 : DC-12GHz
18 : DC-18GHz

Actuator Voltage	
A : 12VDC	E : 20VDC
B : 15VDC	F : 5VDC
C : 28VDC	G: 18VDC
D : 24VDC	H: 48VDC

Control Options
Default : Pin Terminal Control
S9 : 9 Pins D-Sub
S15 : 15 Pins D-Sub

Options
H : High Power
D : TTL Drivers with Diodes
P : Positive + Common
S : Self Cutoff
I : Suppression Diodes
E : Decoder
Y : Moisture Seal
N : Narrow Body
C : Custom

RoHS ISO 9001

* Solder pins are standard for SPDT, no designation on model number needed

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