

Features:

- Broadband: DC - 18 GHz
- Extended Life: 2 million cycles
- Excellent Repeatability
- Low Insertion Loss
- High Isolation
- Internal 50 Ω Terminations



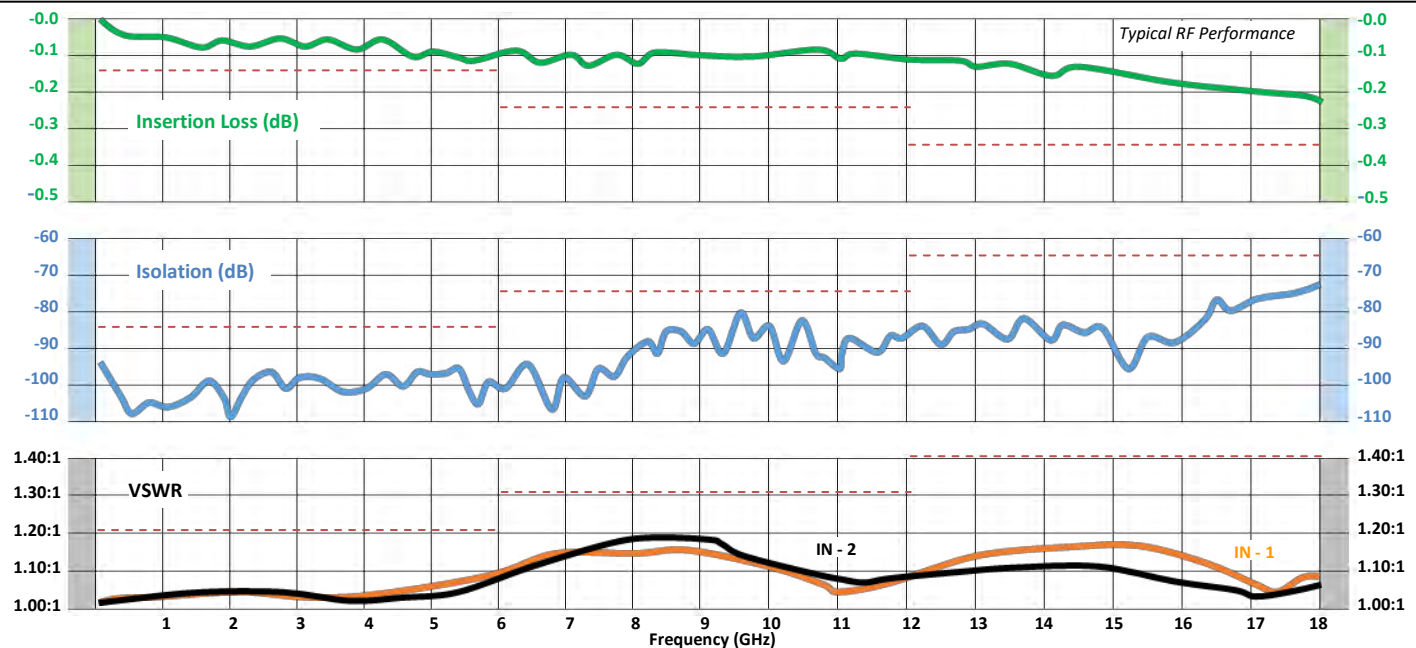
RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18
Ins. Loss dB (max)	0.15	0.25	0.35
Isolation dB (min)	85	70	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 (Switch and Terminations)		

Description:

The 50 Ω terminations of the switch in the "off" state ensures good isolation regardless of the match to which the switch is connected. Combined with repeatability and low insertion loss makes these switches ideal for all testing applications. Low to medium power RF handling with a wide selection of features are available to meet most requirements.

Applications: Bench testing, ATE stations, broadband transceivers, antenna systems. **Markets:** government, 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	2M 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)*	470	200	160	110	90

* at nominal voltage and +20°C

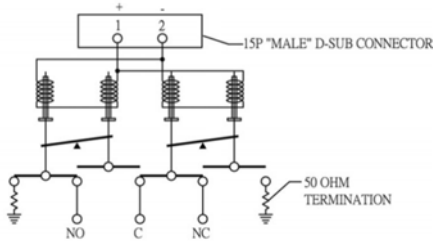
Popular Models

SPDT-0A-18A-T	SPDT, SMA, Failsafe, DC-18GHz, 12VDC, Internal Termination
SPDT-0A-18A-TD	SPDT, SMA, Failsafe, DC-18GHz, 12VDC, Internal Termination, TTL
SPDT-0B-18A-T	SPDT, SMA, Failsafe, DC-18GHz, 12VDC, Indicator, Internal Termination
SPDT-0B-18A-TD	SPDT, SMA, Failsafe, DC-18GHz, 12VDC, Indicator, Internal Termination, TTL

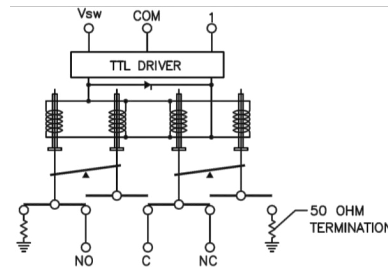
- See backside for a full list of available features and options
- Contact us for high power and custom designs



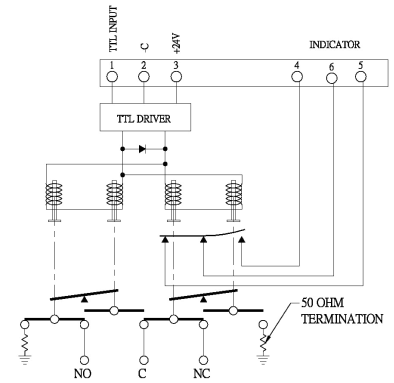
Schematics



15 Pin D-Sub

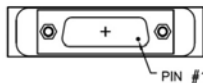


TTL Driver



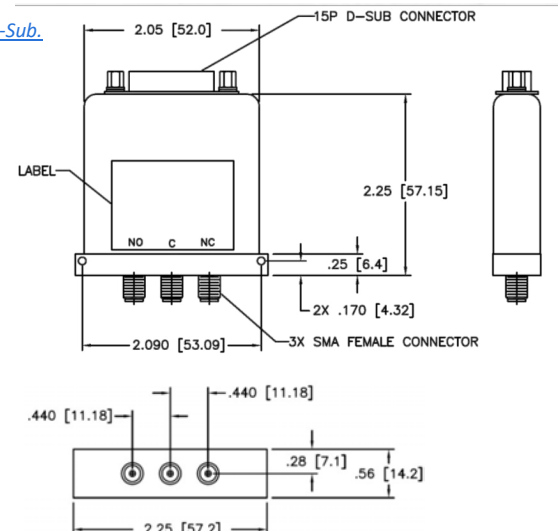
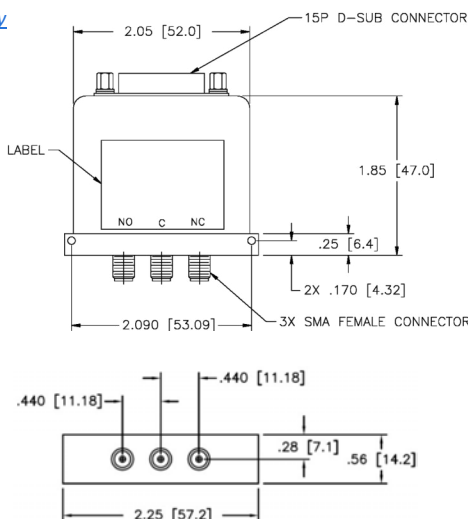
TTL Driver + Indicators

Outlines



Standard Body
15Pin D-Sub

TTL + Indicators + D-Sub.



Model Numbering System

Example: SPDT-0A-18A-T-S15

(SPDT, SMA Connector, Failsafe without indicator, DC-18GHz, 12VDC, Internal Termination, D-Sub Control)

SPDT - 0A - 18A - T - S15

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
A : Failsafe without Indicator
B : Failsafe 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
T : Internal Terminations
D : TTL Drivers with Diodes
I : Suppression Diodes
E : Decoder
Y : Moisture Seal
C : Custom



RoHS



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



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