

Features:

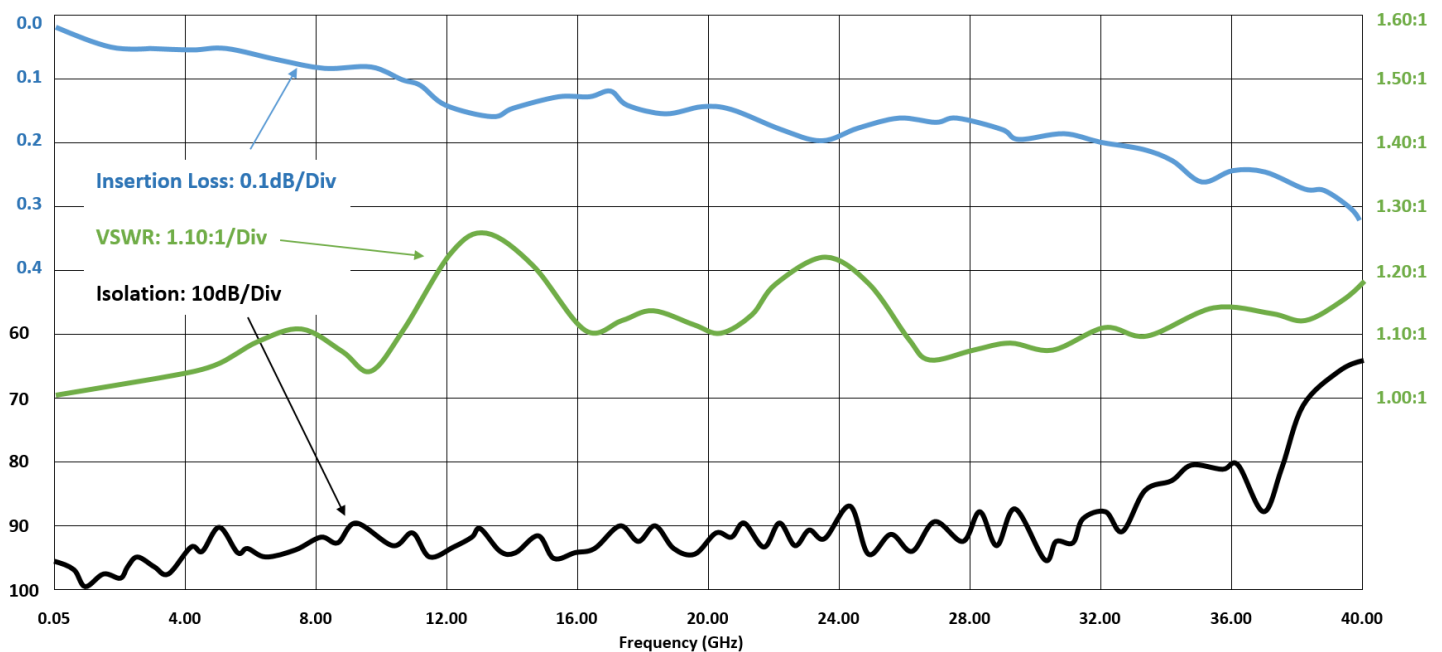
- Broadband: DC - 40 GHz
- Extended Life: 2 million cycles
- Excellent Repeatability
- Low Insertion Loss
- High Isolation



RF Specification:

Frequency, (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40	Operation	Specification
Ins. Loss dB (max)	0.15	0.25	0.30	0.40	0.50	Switching Time	20 mS (max)
Isolation dB (min)	80	75	65	65	60	Switching Action	Break-Before-Make
VSWR (max)	1.15:1	1.35:1	1.40:1	1.40:1	1.50:1	Impedance	50 Ω

Description: Broadband frequency coverage with high reliability and low loss performance makes these switches ideal for testing and end product applications. Precision 2.92mm connectors are employed for excellent RF performance coupled with a variety of available features to meet most requirements. Good low to medium power handling. **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 +70° 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

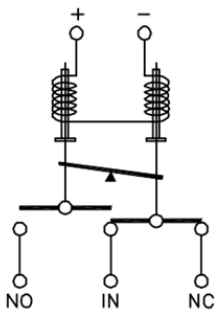
* at nominal voltage and +20°C

Popular Models

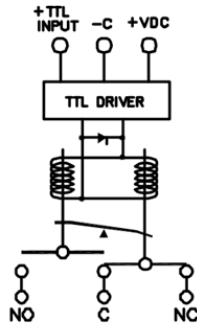
SPDT-9A-40A	SPDT, K connector, Failsafe, DC-40GHz, 12VDC
SPDT-9A-40A-D	SPDT, K connector, Failsafe, DC-40GHz, 12VDC, TTL
SPDT-9A-40B	SPDT, K connector, Failsafe, DC-40GHz, 15VDC
SPDT-9A-40C	SPDT, K connector, Failsafe, DC-40GHz, 28VDC

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

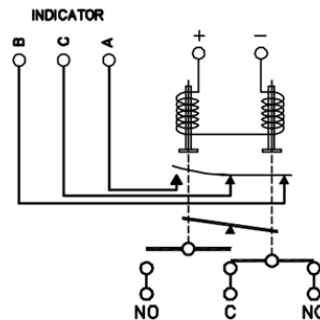
Schematics:



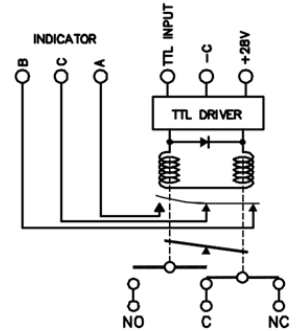
Standard



TTL

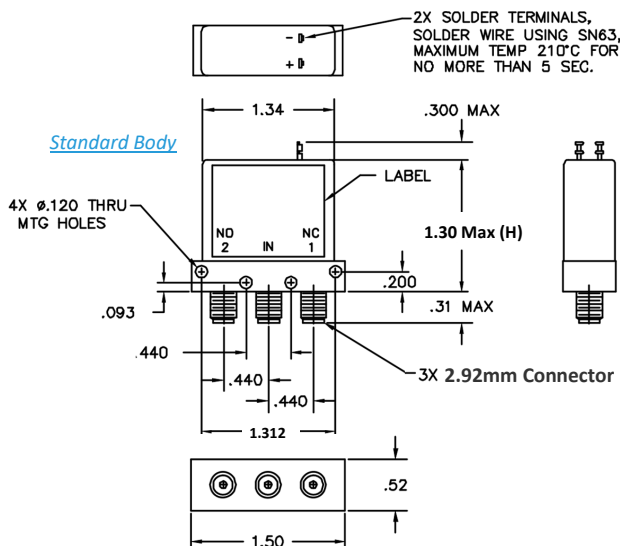


Indicators

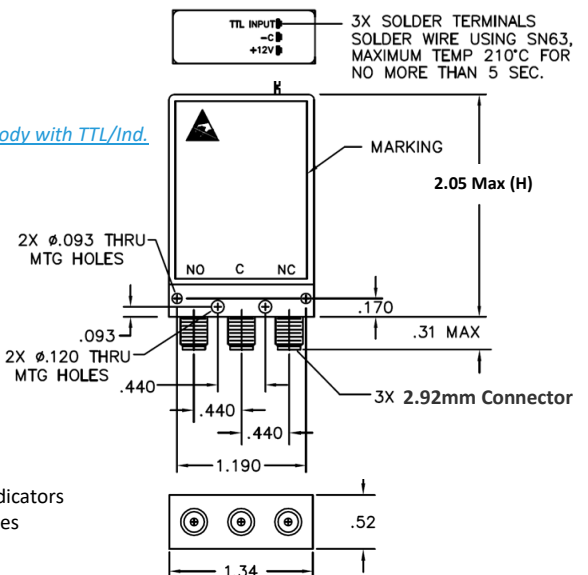


Indicators + TTL

Outline:



Narrow Body with TTL/Ind.



H = 1.30 max standard
H = 2.05 max with TTL/Indicators
All dimensions are in inches

Model Numbering System

Example: SPDT-9A-40A-D

(SPDT, K Connector, Failsafe without indicator, DC-40GHz, 12VDC, TTL Driver, Pin Terminal Control)

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

SPDT - 9A - 40A - D -

Frequency Range	
03 : DC-3GHz	22 : DC-22GHz
08 : DC-8GHz	26 : DC-26.5GHz
12 : DC-12GHz	33 : DC-33.5GHz
18 : DC-18GHz	40 : DC-40GHz

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
D : TTL Driver
E : Decoder
H : High Power
I : Suppression Diodes
N : Narrow Body
Y : Moisture Seal
C : Custom



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