

Features:

- Broadband: DC - 12 GHz
- Extended Life: 2 million cycles
- High Power Handling: >1kW
- Low Insertion Loss
- High Isolation

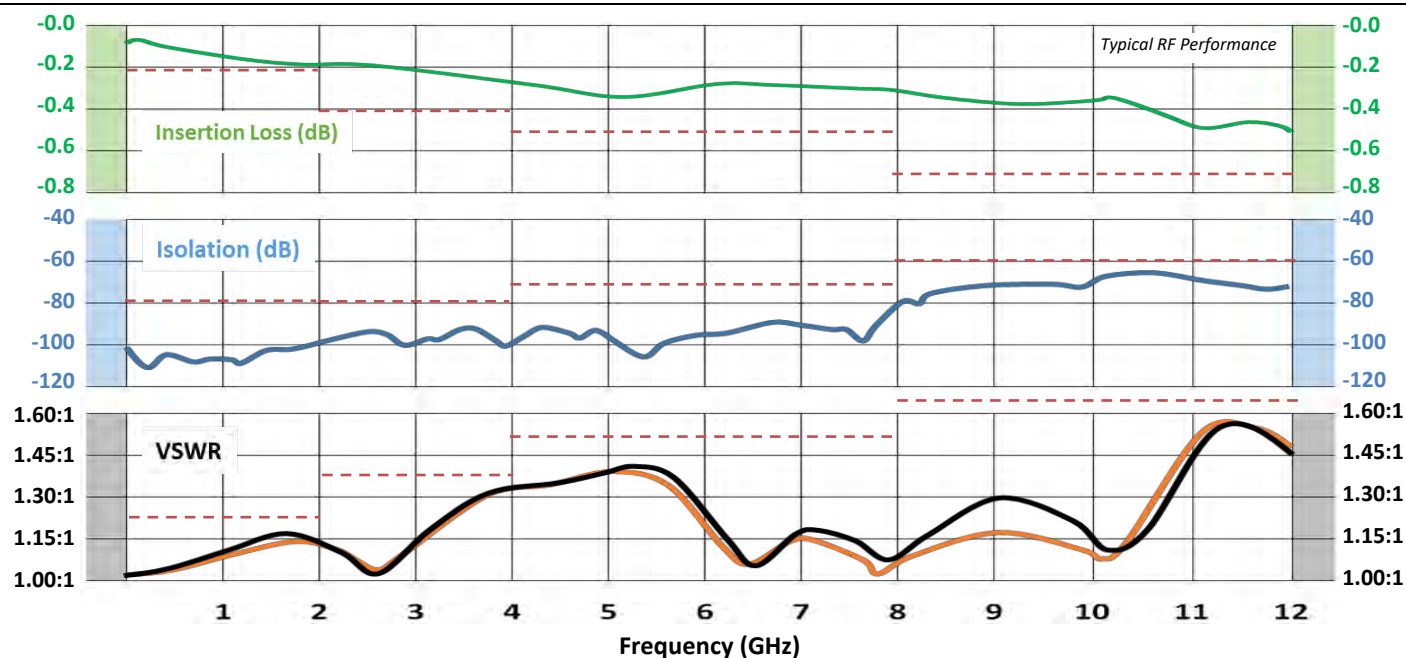


RF Specification:

Frequency, (GHz)	DC-2	2-4	4-8	8-12
Ins. Loss dB (max)	0.2	0.4	0.5	0.7
Isolation dB (min)	80	80	70	60
VSWR (max)	1.20:1	1.40:1	1.50:1	1.70:1
Switching Time	20 mS (max)			
Switching Action	Break-Before-Make			
Impedance	50 Ω			
RF Power Handling	>1kW CW designs available			

Description:

Excellent high RF power handling with reliability and low loss performance makes these switches ideal for testing and end product applications. A wide selection of connectors and features are available to meet most requirements. Higher RF power designs available. **Applications:** test stations, stand-by switch, antenna diversity switch, bypass 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	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	24-30
Current (mA)*	800	500	300	270

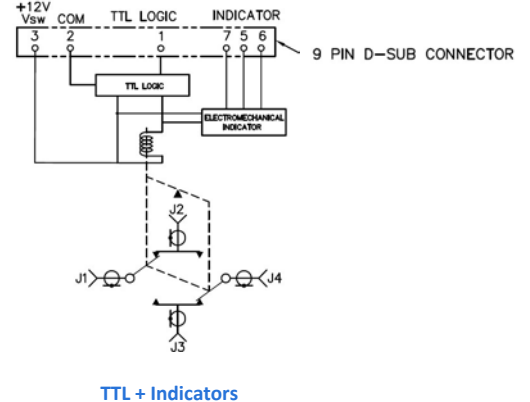
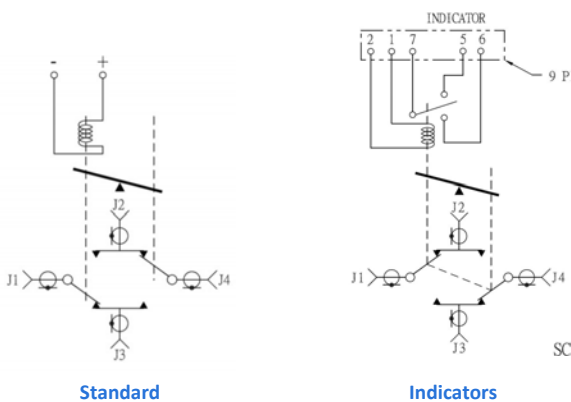
* at nominal voltage and +20°C

Popular Models	
TRAN-1A-12A	TRAN, N, Failsafe, DC-12GHz, 12VDC
TRAN-1A-12A-D	TRAN, N, Failsafe, DC-12GHz, 12VDC, TTL
TRAN-1A-12A-S9	TRAN, N, Failsafe, DC-12GHz, 12VDC, D-Sub
TRAN-1B-12A	TRAN, N, Failsafe, DC-12GHz, 12VDC, Indicator
TRAN-1B-12A-D	TRAN, N, Failsafe, DC-12GHz, 12VDC, Indicator, TTL

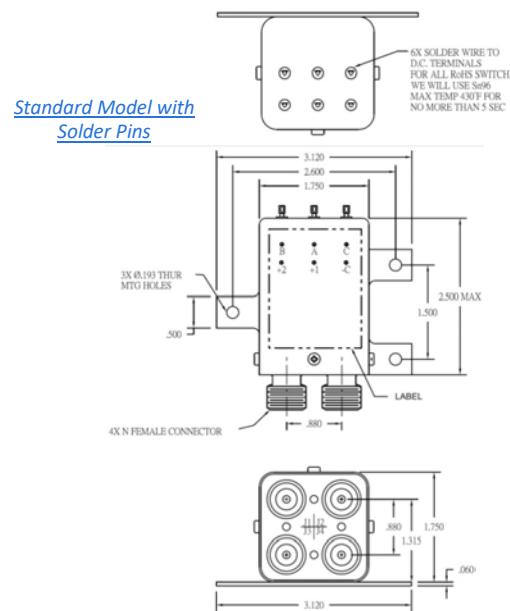
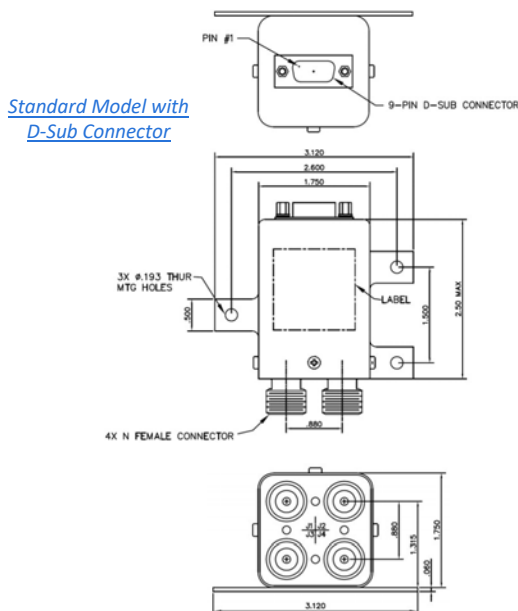
- See backside for a full list of available features and options
- Contact us for high power and custom designs



Schematics:



Outline:



Model Numbering System

Example: TRAN-1A-12A-D

(TRAN, N Connector, Failsafe without indicator, DC-12GHz, 12VDC, TTL Driver, Pin Terminal Control)

TRAN - 1 A - 12 A - D -

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

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
I : Suppression Diodes
E : Decoder
Y : Moisture Seal
C : Custom



RoHS



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



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