

Features:

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



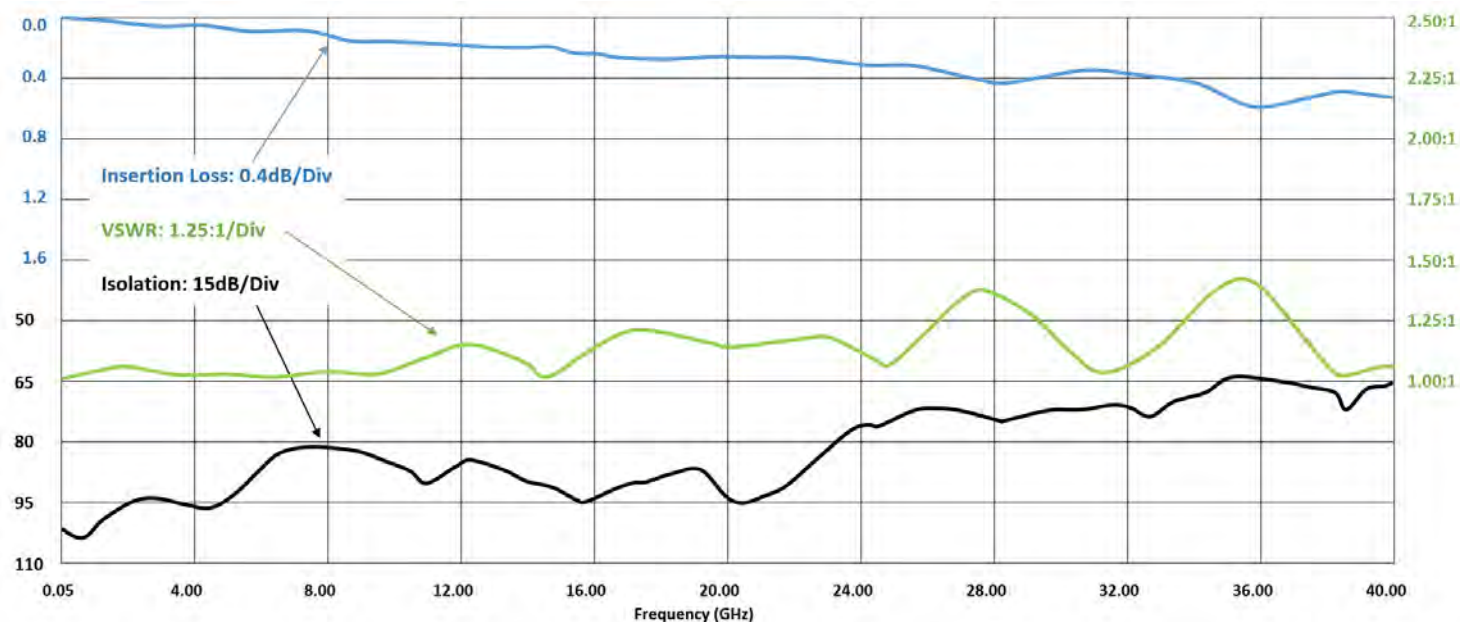
RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18	18-30	30-33	33-40	Operation	Specification
Ins. Loss dB (max)	0.15	0.25	0.35	0.55	1.00	1.35	Switching Time	15 mS (max)
Isolation dB (min)	70	70	65	60	50	50	Switching Action	Break-Before-Make
VSWR (max)	1.15:1	1.20:1	1.25:1	1.50:1	2.00:1	.50:1	Impedance	50 Ω

Description:

Repeatability and low insertion loss 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 handling 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 +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	12	15	24	28
Voltage Range, Vdc	11-13	14-16	22-26	24-30
Current (mA)*	800	650	700	400

* at nominal voltage and +20°C

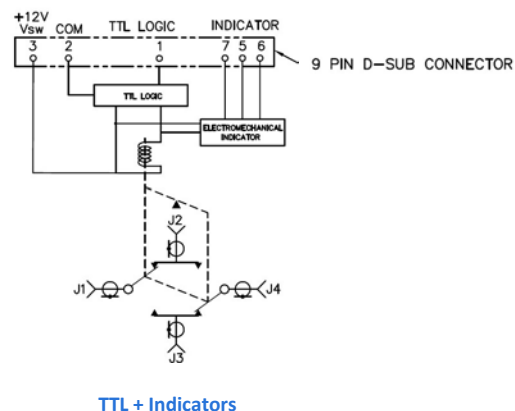
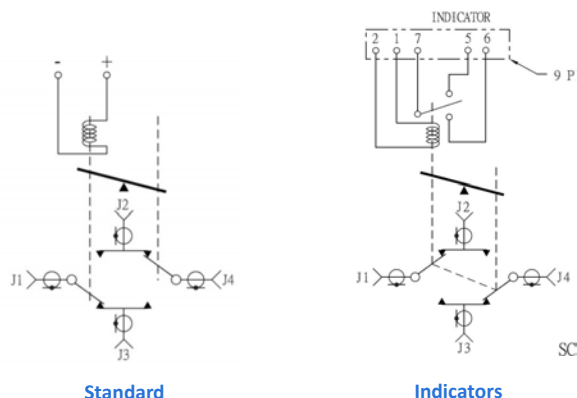
Popular Models

TRAN-9A-40A	TRAN, K, Failsafe, DC-40GHz, 12VDC
TRAN-9A-40A-D	TRAN, K Failsafe, DC-40GHz, 12VDC, TTL
TRAN-9A-40A-S9	TRAN, K, Failsafe, DC-40GHz, 12VDC, D-Sub
TRAN-9B-40A	TRAN, K, Failsafe, DC-40GHz, 12VDC, Indicator
TRAN-9B-40A-D	TRAN, K, Failsafe, DC-40GHz, 12VDC, Indicator, TTL

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

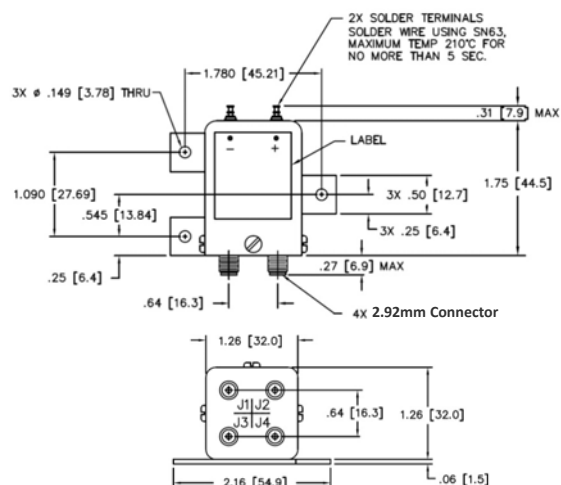


Schematics:

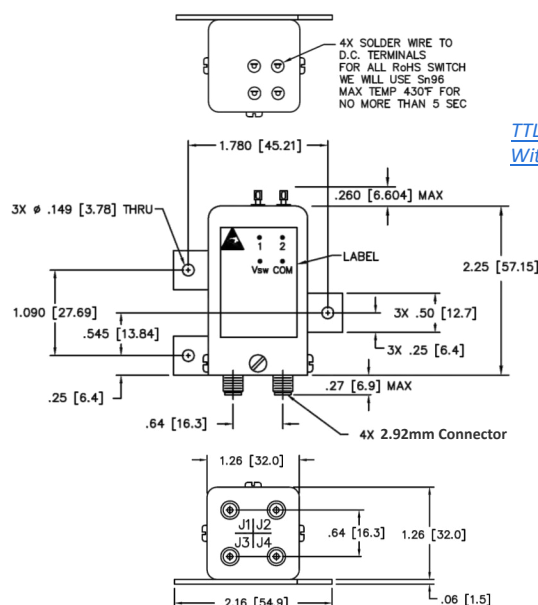


Outline:

Standard Model Solder Pins



TTL + Self Cutoff With Solder Pins



Model Numbering System

Example: TRAN-9A-40A-D

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

TRAN - 9 A - 30 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 (75 Ω)	10: Mini DIN
5: SC	

Actuator Type
A : Failsafe without Indicator
B : Failsafe with Indicator

Frequency Range	
03 : DC-3GHz	22 : DC-22GHz
08 : DC-8GHz	26 : DC-26.5GHz
12 : DC-12GHz	30 : DC-30GHz
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
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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