DPDT Electromechanical Switch, Failsafe, DC to 40 GHz, 2.92mm, TTL, Indicators, 9 Pin D-Sub

Electrical

Switch Type	DPDT			
Actuator Type	Failsafe			
Switching Sequence	Break before make			
Switching Time	15 ms max			
Impedance	50 Ohms			
Frequency Range	DC-40 GHz			
*Nominal Actuating Voltage, Vdc	12 (11 to 13)	18 (16 to 20)	24 (22 to 26)	28 (26 to 30)
Actuating Current, mA	380	280	200	180
TTL Control	On: 2.4 to 5 Volts, Off: 0 to 0.8 Volts			
Indicator Rating	1 Watts / 50 Volts / 100 mA			

Frequency (GHz)	DC-6	6-12	12-18	18-26.5	26.5-40
VSWR (max)	1.2	1.3	1.35	1.70	2.00
Insertion Loss dB (max)	0.20	0.25	0.40	0.90	1.30
Isolation dB (min)	80	70	60	55	50

Environmental & Mechanical

Operating Temperature	-25℃~+65℃
Storage Temperature	-55℃~+85℃
Shock (Designed to meet)	MIL-STD-202 Method 213, Condition D, 500G (Non Operating)
Vibration (Designed to meet)	MIL-STD-202 Method 214, Condition D, 10G RMS (Non Operating)
Operating Life	3 Million Cycles Minimum
RF Connector	2.92mm Female
Actuator Terminals	9 Pin D-Sub
Weight	About 120g

Notes

*For model RD2-K40FXX-TID, replace the XX with the desired Actuator Voltage. Example: RD2-K40F12-TID for 12 Volts.

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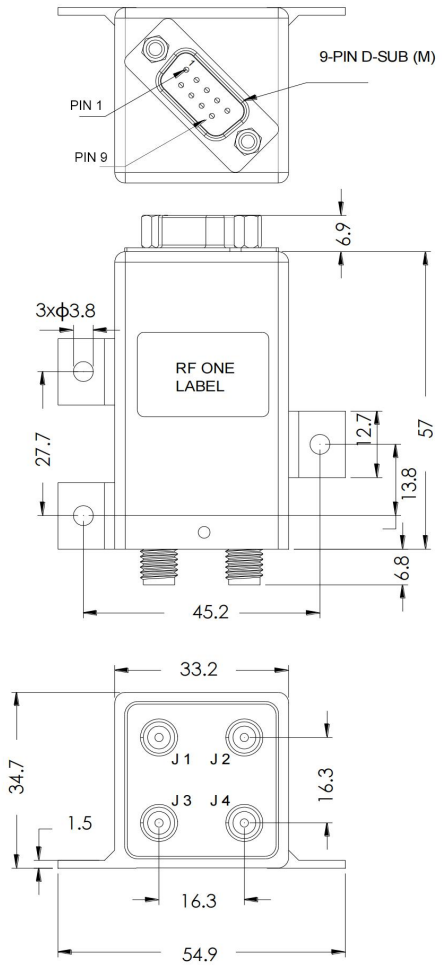
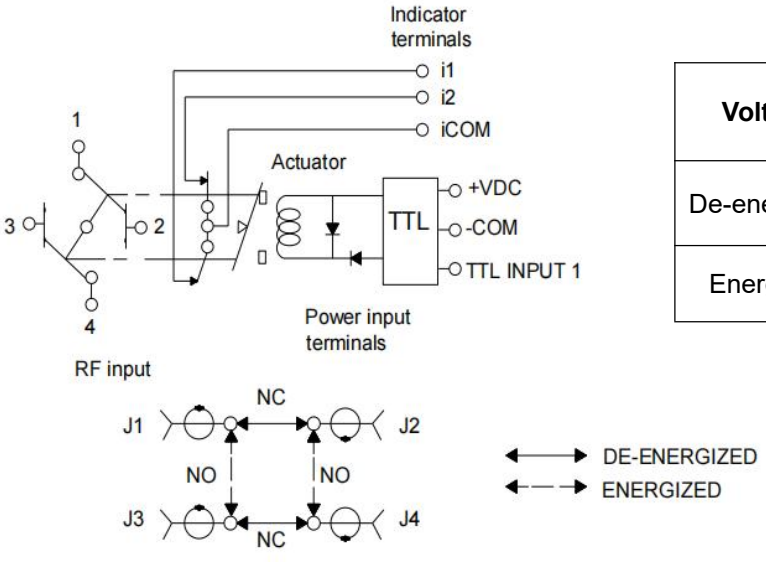
Drawing (unit: mm, tolerance +/-0.5mm)



9 Pin D-Sub

Pin No.	Define
1	TTL INPUT 1
2	N/A
3	-COM
4	N/A
5	Indicator i1
6	Indicator i2
7	Indicator iCOM
8	N/A
9	+VDC

Schematic



Voltage	TTL Input	RF Path	Indicator Path
De-energized	Off	J1-J2 J3-J4	i2-iCOM
Energized	On	J1-J3 J2-J4	i1-iCOM