

Terminated SPDT Coaxial Switches



This RLC Electronics' Terminated Single Pole, Two Position Coaxial Switch provides proven reliability, long life and excellent electrical performance. It features extremely low insertion loss and VSWR over the entire DC-50 GHz range while maintaining high isolation. Standard RF power rating is 2 watts cw limited by the termination. Terminations can be provided in either an internal or external configuration, or can be replaced by SMA "2.92mm" or "2.4mm" connectors for special applications.

Specifications

ST¹-2-¹⁻²⁻³⁻⁴

Switch Type	SINGLE POLE TWO THROW								
Frequency Range	DC-18GHz			26.5 GHz option	40 GHz option			50 GHz option	
Frequency (GHz)	DC-4.0	4.0-12.4	12.4-18.0	18-26.5	DC-4.0	4.0-12.4	12.4-18	18-26.5	26.5-40 40-50
Insertion Loss (dB Max)	0.1	0.2	0.3	1.0	0.2	0.4	0.5	0.7	0.9 1.1
VSWR (Max)	1.2:1	1.3:1	1.5:1	1.8:1	1.25:1	1.4:1	1.5:1	1.7:1	2.0:1 2.0:1
Isolation (dB Min)	80	70	60	40	80	70	60	55	50 50

Power Rating: RF Cold Switching: 2 watts average

Impedance: 50 Ohms/75 Ohms.*

Operating Power 25 C:

(Failsafe): 12Vdc at 510ma nom, 28Vdc at 280ma nom

(Latching): 12Vdc at 470ma nom. 28Vdc at 300ma nom. Current applied 10 ms min.cutthroat circuitry (standard), recovery time 100ms nom.

Connectors, RF: SMA, female(2.92mm for 40GHz, 2.4mm for 50GHz)

Connectors, Power: Feed through solder lugs.

Life: 1,000,000 operations

Switching Time: 25ms Max

Weight: 4 oz.

Environmental Conditions: MIL-DTL-3928

Operating Mode: Failsafe or Latching

Switching Sequence: Break before make

To designate the switch desired use:

1: "M" for Manual, "R" for Remote.

2: "A" for 115 Vac, "D" for 28 Vdc or "H" for 12 Vdc.

3: "I" for indicators if desired.

4: "L" for latching cutthroat if desired.

5: "TL" for TTL Driver if desired

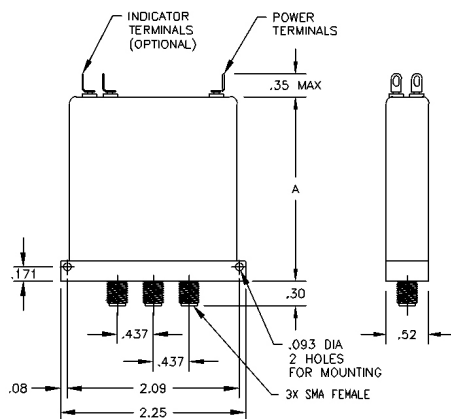
6: "26" for 26 GHz, "40" for 40 GHz, "50" for 50GHz

Example: STR-2-D is a SP2T, 28 Vdc; without indicators, Failsafe switch 50 ohms

A 75 ohm version is available. Please contact factory for details.

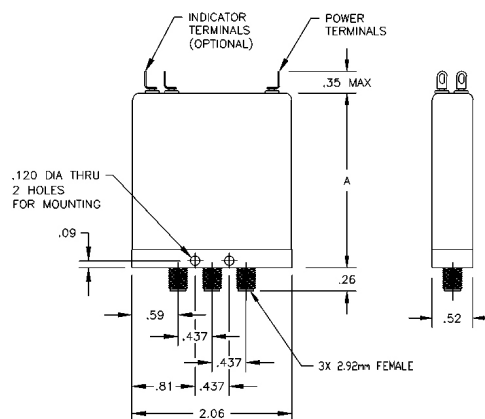
Outline Drawing

DC-18 GHz



MODEL NO.	A
STR-2-D	2.11
STR-2-D-L	2.29
STR-2-H-I-L-TL	2.25

DC-40 GHz



RLC ELECTRONICS, INC.

83 Radio Circle, Mount Kisco, New York 10549 - Telephone: 914-241-1334 - Fax: 914-241-1753

e-mail: sales@rlcelectronics.com - www.rlcelectronics.com