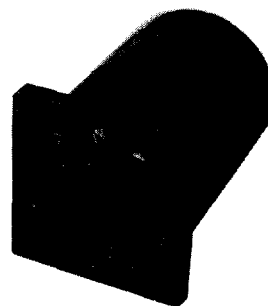


Terminated Multi-Position Coaxial Switches (7 to 10 Position)



RLC Electronics' Terminated 7 – 10 Multi-Position Coaxial Switch line provides proven reliability, long life and outstanding electrical performance. These switches offer electrical characteristics featuring extremely low insertion loss and VSWR

over the entire DC-18 GHz range while maintaining high isolation. These switches are available in remote DC operation. Standard RF power rating is 2 watts cw limited by the termination.

Specifications

STR - 1,2,3,4,5

RF POSITIONS	7	8	9	10
Switch type:	SP-7T	SP-8T	SP-9T	SP-10T
Frequency Range: (GHz)	DC-18	DC-18	DC-18	DC-18
Insertion Loss: (dB) (max)				
DC-6 GHz	0.30	0.30	0.30	0.30
6-12 GHz	0.50	0.50	0.50	0.50
12-16 GHz	0.70	0.70	0.70	0.70
16-18 GHz	1.00	1.00	1.00	1.00
VSWR (max)				
DC-6 GHz	1.40	1.40	1.40	1.40
6-12 GHz	1.50	1.50	1.50	1.50
12-16 GHz	1.70	1.70	1.70	1.70
16-18 GHz	1.80	1.80	1.80	1.80
Isolation: (dB) (min)	60	60	60	60

Power Rating, RF: 2 watts average.

Impedance: 50 ohms.

Operating Power 25°C:

(**Failsafe**): 12 Vdc at 325 ma nom.,

28 Vdc at 190 ma nom.

115 Vac at 20 ma nom.

(**Latching**): 12 Vdc at 480 ma nom. 28 Vdc at 240 ma nom.

115 Vac at 225 ma nom.

Cutthroat circuitry (standard), recovery time 100 ms nom.

Connectors, RF: SMA Female.

Life: 1,000,000 operations.

Switching Time: 25 ms max. Failsafe,

125 ms latching.

Weight: 20 oz.

Environmental Conditions: MIL-S-3928

Operating Mode: Failsafe/Latching.

Switching Sequence: Break before make.

To designate the switch desired use:

- (1) "7", "8", "9" or "10" throw operation.
- (2) "A" for 115 Vac, "H" for 12 Vdc., or "D" for 28 Vdc.
- (3) "I" for indicators if desired.
- (4) "L" for latching cut throat if desired.
- (5) "TL" for TTL Driver if desired.

Example: STR-10-D is a SP-10T, 28 Vdc, Terminated, failsafe switch.

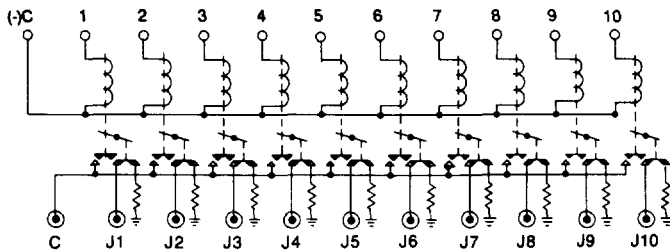


RLC ELECTRONICS, INC.

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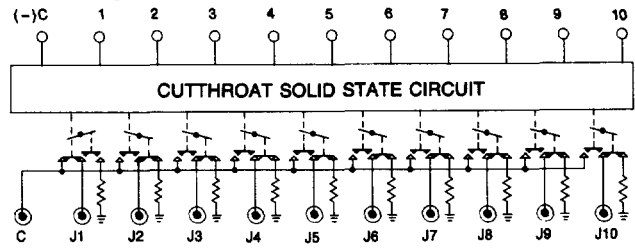
Schematic (10 Positions Shown)

Failsafe



7 TO 10 POSITIONS
ALL POSITIONS NORMALLY OPEN.

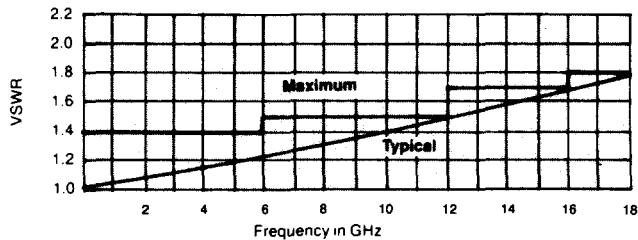
Latching



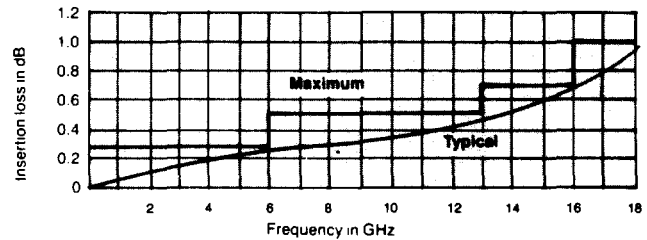
7 TO 10 POSITIONS
POSITION 1 SHOWN CLOSED.

Typical Operating Curves

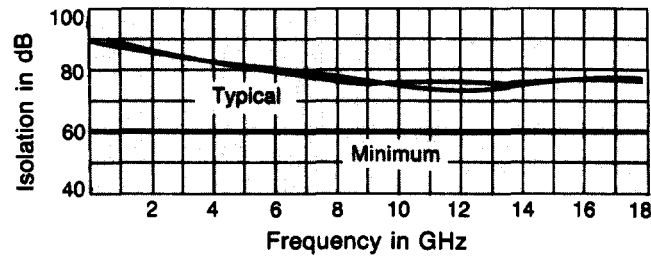
VSWR Vs. Frequency



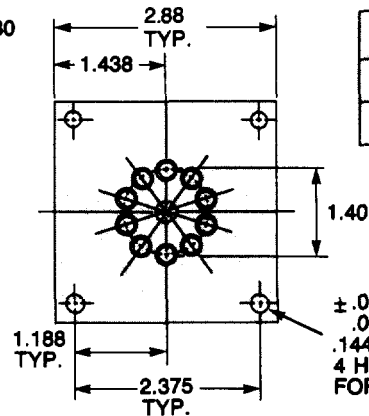
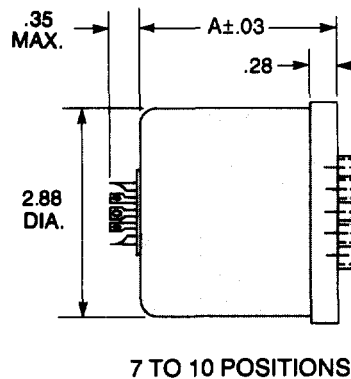
Insertion Loss Vs. Frequency



Isolation Vs. Frequency



Outlines



MODEL NO.	A
STR--D	3.97
STR--D-L	4.03

Tolerances unless otherwise specified are: .xx, $\pm$.02; .xxx, $\pm$.005

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