

# High Power Multi-Position Coaxial Switches



RLC Electronics' High Power Multi-Position Coaxial Switch line provides extremely high reliability, long life and outstanding electrical performance and features extremely low insertion

loss and VSWR over the entire DC-6GHz range, while maintaining high isolation.

## Specifications

S-2 P-3-4 5-6-7

RF Positions	3	4	5	6
Switch Type:	SP-3T	SP-4T	SP-5T	SP-6T
Frequency Range:(GHz)	DC-6	DC-6	DC-6	DC-6
Insertion Loss (Max dB)				
DC-1 GHz	0.15	0.15	0.15	0.15
1.0-3.0 GHz	0.35	0.35	0.35	0.35
3.0-6.0 GHz	0.50	0.50	0.50	0.50
VSWR (Max)				
DC-1 GHz	1.15	1.15	1.15	1.15
1.0-3.0 GHz	1.35	1.35	1.35	1.35
3.0-6.0 GHz	1.50	1.50	1.50	1.50
Isolation (dB) (Min)				
DC-1 GHz	80	80	80	80
1.0-3.0 GHz	70	70	70	70
3.0-6.0 GHz	60	60	60	60

**Power Rating, RF Cold Switching:** See page 5.

**Impedance:** 50 Ohms

**Operating Power 25° C:**

**(Failsafe):** 12Vdc at 270 ma nom.

28Vdc at 190 ma nom.

115Vac at 50 ma nom.

**(Latching)** 28 Vdc at 310 mA nom. 12 Vdc at 550 mA nom.

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

**Connectors, RF:** N, HN, SC, TNC Female  
(HN not recommended above 4GHz)

**Connectors, Power:** Feed through solder lugs.

**Life:** 1,000,000 operations.

**Switching Time:** 20 mS Max. Failsafe, 125 ms latching.

**Environmental Conditions:** MIL-S-3928

**Operating Mode:** Manual, failsafe or latching

**Switching Sequence:** Break before make.

**To designate the switch desired use:**

(1) "M" for Manual, "R" for Remote.

(2) "3", "4", "5" or "6" throw operation

(3) "N", "T" for TNC, "H" for HN or "S" for SC type connectors

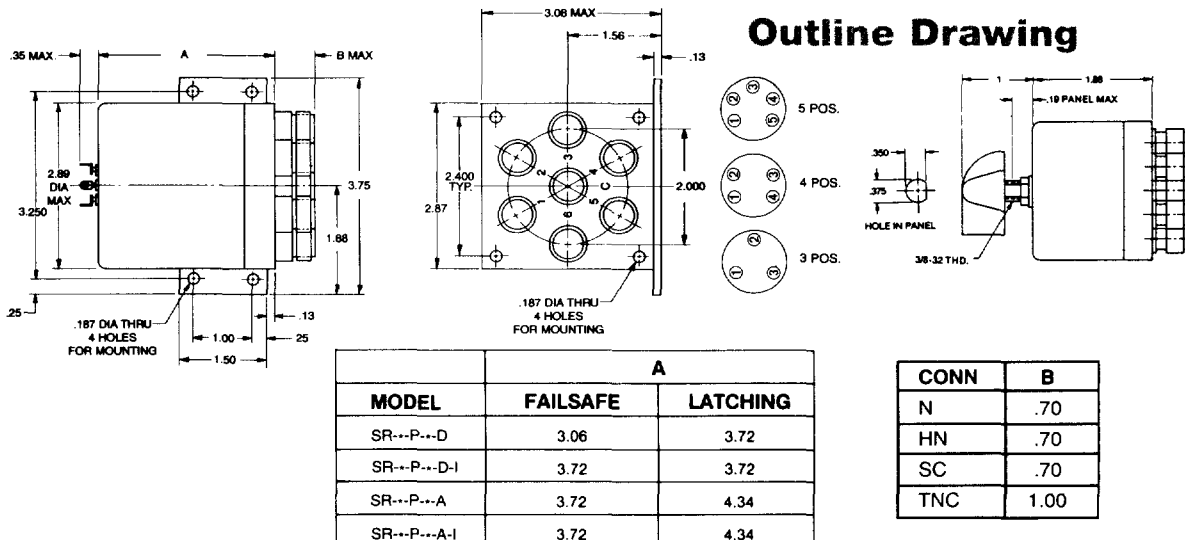
(4) "A" for 115 Vac, "D" for 28 Vdc or "H" for 12 Vdc.

(5) "I" for indicators if desired.

(6) "L" for Latching cutthroat if desired

(7) "TL" for TTL Driver if desired

Example: SR-6-P-N-D-I-L is a remote, 6 position, N Connector, 28 Vdc; with indicators, latching cutthroat switch



Tolerances unless otherwise specified are: .xx, ± .02; .xxx, ± .005.



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