

# Type C Multi-Position Coaxial Switches (3 to 6 Position)



This RLC Electronics' Basic Mid-Size Multi-Position Coaxial Switch line provides up to 6 positions with extremely high reliability, long life and outstanding electrical performance.

It features extremely low insertion loss and VSWR over the entire frequency range, while maintaining high isolation.

## Specifications

S<sup>1-2</sup> C<sup>-3-4-5-6-7</sup>

RF Positions	3-6	3-6	3 to 6 for OPTION 40	
Switch Type:	SP-3T...6T	SP-3T...6T	SP-3T-40	SP-6T-40
Frequency Range:(GHz)	DC-18	DC-26.5	DC-40	
<b>Insertion Loss (Max dB)</b>			Ins. Loss: (dB Max)	
DC-4.0 GHz	0.20	0.20	DC-6.0	0.25
4.0-12.4 GHz	0.30	0.30	6.0-12	0.40
12.4-18 GHz	0.50	0.50	12-18.5	0.50
18-26.5 GHz (option 26)	-	0.75	18.5-26.5	0.75
			26.5-40	0.90
<b>VSWR (Max)</b>			VSWR: (Max)	
DC-4 GHz	1.25	1.25	DC-6.0	1.30
4.0-12.4 GHz	1.40	1.40	6.0-12	1.40
12.4-18 GHz	1.50	1.50	12-18.5	1.50
18-26.5 GHz (option 26)	-	1.80	18.5-26.5	1.70
			26.5-40	2.00
<b>Isolation (dB Min)</b>			Insolation: (dB Min)	
DC-18 GHz	60	60	DC-18.5	60
18-26.5 GHz (option 26)	-	40	18.5-26.5	55
			26.5-40	45

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

**Impedance:** 50 Ohms

**Operating Power 25°C:**

**(Failsafe):** 12Vdc at 400 ma nom.

28Vdc at 150 ma nom. 115 Vac at 50 ma nom.

**(Latching):** 12 Vdc at 462 ma nom.

28 Vdc at 400 ma nom. 115 Vac at 225 ma nom.

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

**Connectors, RF:** SMA Female

**Connectors, Power:** Feed through solderlugs.

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

**Switching Time:** 15 mS Max. Failsafe 125mS latching

**Weight:** 10oz.

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

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

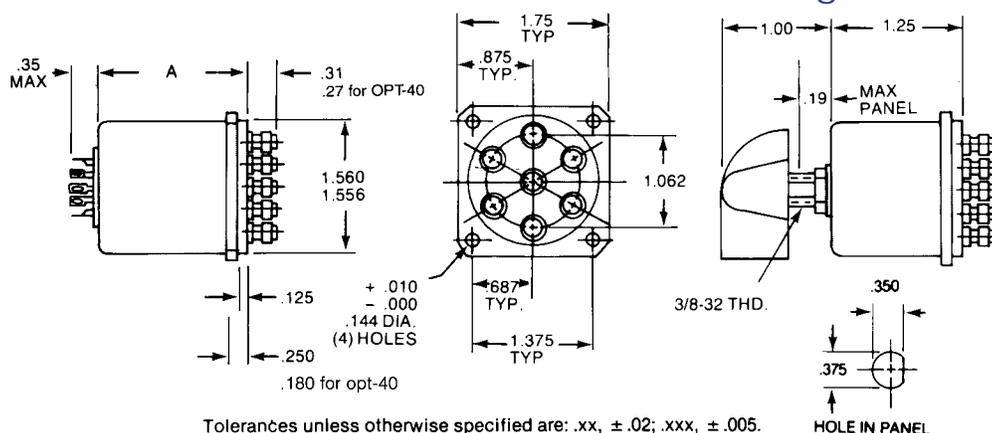
**Switching Sequence:** Break before make.

**To designate the switch desired use:**

- (1) "M" for Manual, "R" for Remote.
- (2) "3C", "4C", "5C" or "6C" throw operation
- (3) "A" for 115 Vac, "D" for 28 Vdc or "H" for 12 Vdc.
- (4) "I" for indicators if desired.
- (5) "L" for latching cutthroat if desired
- (6) "TL" for TTL Driver if desired
- (7) "26" for the 26.5GHz option "40" for the 40GHz option

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

## Outline Drawing



MODEL NO.	A
SR * C-D	1.58
SR * C-D-I	2.25
SR * C-D-L	3.73
SR * C-D-I-L	4.00
SR * C-D-TL	2.25
SR * C-D-I-TL	2.25
SR * C-D-L-TL	4.40
SR * C-D-I-L-TL	4.40
SR * C-H same as SR * C-D	



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