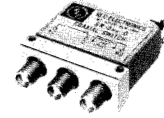


# Miniature Coaxial Switches



This RLC Electronics' Miniature Coaxial Switch is a single pole, two position type. The switch provides extremely high reliability, long life and excellent electrical performance characteristics over the frequency range of DC-65 GHz.

The miniature package utilizes high density packaging techniques, hence the overall volume of the switch is less than 3/4 cubic inch.

## Specifications

S<sup>1</sup>-2 MIN<sup>2-3-4-5-6-7-8</sup>

Switch Type	SINGLE POLE TWO POSITION										
	DC-18.0 GHz			26.5 GHz Opt	40.0GHz Option					50.0GHz Opt.	65.0GHz Opt.
Frequency Range	DC-18.0 GHz			26.5 GHz Opt	40.0GHz Option					50.0GHz Opt.	65.0GHz Opt.
Frequency (GHz)	DC-4.0	4.0-12.4	12.4-18.0	18-26.5	DC-6	6-12	12-18	18-26.5	26.5-40	40-50	50-65
Insertion Loss (Max dB)	0.1	0.2	0.3	0.5	0.2	0.4	0.5	0.7	0.9	1.1	1.1
VSWR (Max)	1.2:1	1.3:1	1.5:1	1.5:1	1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	1.9	1.9
Isolation (Min)	80	70	60	50	70	60	60	55	50	50	50

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

**Impedance:** 50 Ohms

**Operating Power 25°C:**

**(Failsafe):** 12Vdc at 250 ma nom.

28Vdc at 140 ma nom. 115 Vac at 50 ma nom.

**(Latching):** 12 Vdc at 120 ma nom. 28 Vdc at 60 ma nom. 115 Vac at 43 ma nom. Current applied 10 ms min. cutthroat circuitry(standard), recovery time 100 ms nom.

**Connectors, RF:** SMA Female (40 GHz - 2.92 mm)  
(50 GHz - 2.4 mm) (65 GHz - 1.85 mm)

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

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

**Switching Time:** 15 mS Max.

**Weight:** 2 oz.

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

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

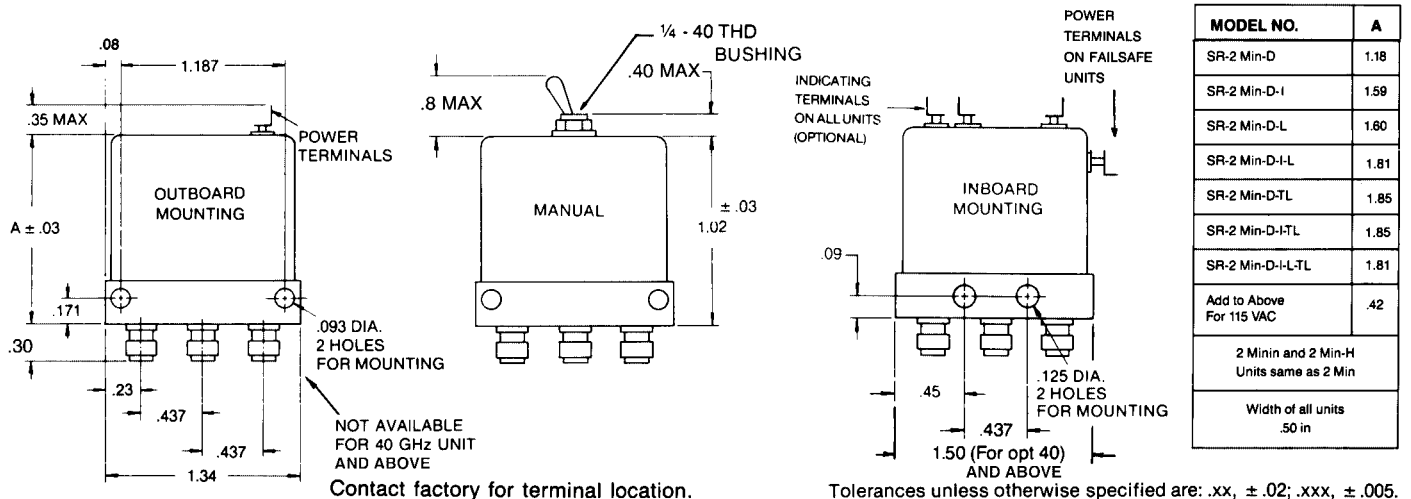
**Switching Sequence:** Break before make.

To designate the switch desired use:

- (1) "M" for Manual, "R" for Remote.
- (2) "Min" for outboard mountings or "Minin" for inboard mountings. 40 GHz is inboard only.
- (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 26.5 GHz option., "40" for 40 GHz option, "50" for 50 GHz option, "65" for 65 GHz option
- (8) "Arc" for Arc Suppression diodes (N/A with TTL and Latching)

Example: SR-2 MIN-D is a remote, outboard mounting, 28 Vdc; Failsafe switch, for DC to 18 GHz use.

## Outline Drawing



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