# Miniature Multi-Position Coaxial Switches

RLC Electronics' Miniature Multi-Position Coaxial Switch line provides extremely high reliability, long life and outstanding electrical performance by utilizing high density packaging.

The "Multi-Min" electrical characteristics feature low insertion loss and VSWR over the entire DC-18GHz range, with an option to 26.5 GHz, while maintaining high isolation.

## Specifications

$S^{1-2}$ MIN$^{-3-4-5-6}$

| RF Positions | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Switch Type: | SP-3T | SP-4T | SP-5T | SP-6T |
| Frequency Range:(GHz) | DC-18 (18-26.5 option) | DC-18 (18-26.5 option) | DC-18 (18-26.5 option) | DC-18 (18-26.5 option) |
| Insertion Loss (Max dB) | | | | |
| DC-4 | 0.20 | 0.20 | 0.20 | 0.20 |
| 4.0-12.4 GHz | 0.30 | 0.30 | 0.30 | 0.30 |
| 12.4-18 GHz | 0.50 | 0.50 | 0.50 | 0.50 |
| 18-26.5 GHz (option) | 1.00 | 1.00 | 1.00 | 1.00 |
| VSWR (Max) | | | | |
| DC-4 | 1.25 | 1.25 | 1.25 | 1.25 |
| 4.0-12.4 GHz | 1.40 | 1.40 | 1.40 | 1.40 |
| 12.4-18 GHz | 1.50 | 1.50 | 1.50 | 1.50 |
| 18-26.5 GHz (option) | 2.00 | 2.00 | 2.00 | 2.00 |
| Isolation (dB Min) | | | | |
| DC-18 GHz | 60 | 60 | 60 | 60 |
| 18-26.5 GHz (option) | 50 | 50 | 50 | 50 |

Power Rating, RF Cold Switching: See page 5.
Impedance: 50 Ohms
Operating Power 25°C:
(Failsafe): 12Vdc at 300 ma nom.
28Vdc at 90 ma nom. 115 Vac at 25 ma nom.
Connectors, RF: SMA Female
Connectors, Power: Feed through solder lugs.

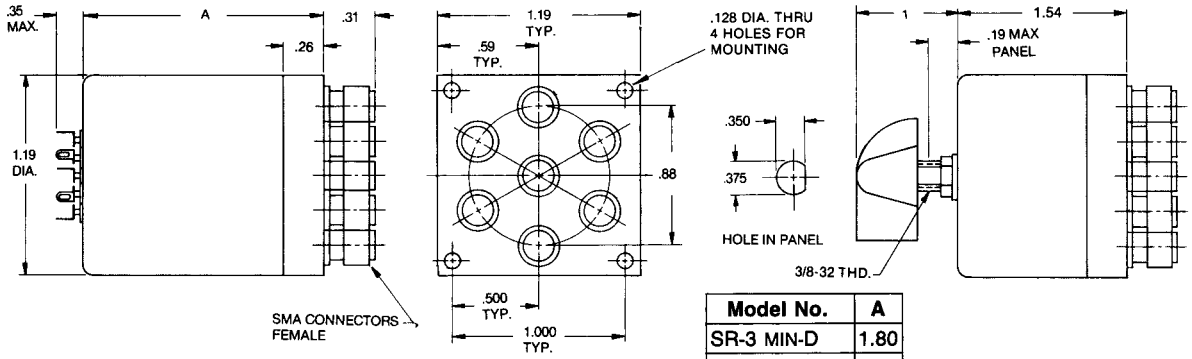
Life: 1,000,000 operations.
Switching Time: 15 mS Max.
Weight: 3 position 3.5oz, others 7oz.
Environmental Conditions: MIL-S-3928
Operating Mode: Manual or failsafe.
Switching Sequence: Break before make.

**To designate the switch desired use:**

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

Example: SR-4 Min-D-26 is a remote, 28 Vdc; without indicators, failsafe switch, 26.5 GHz operation

## Outline Drawing




*4,5,6

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

| Model No. | A |
|---|---|
| SR-3 MIN-D | 1.80 |
| SR-4 MIN-D | 2.55 |
| SR-5 MIN-D | 2.55 |
| SR-6 MIN-D | 2.55 |
| SR-3 MIN-D-TL | 2.00 |
| SR-* MIN-D-TL | 3.27 |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