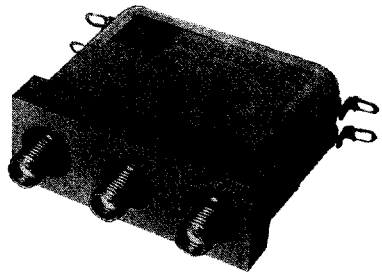
Type C Coaxial Switches



This RLC Electronics Mid-Size 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-18.0 GHz. The package utilizes high density packaging techniques, hence the overall volume of the switch is less than 3 cubic inches. The switch is available in the following configurations-manual or remote, inboard or outboard mounting holes; type SMA, BNC or TNC connector,12 Vdc, 28 Vdc or 115 Vac operation, with or without indicator terminals, failsafe or latching cutthroat.

Specifications

$S^{1}\text{-}2C^{2,3,4,5,6,7}$

Switch Type	Single pole, two position		
Frequency Range:	DC-18.0 GHz		
Insertion Loss: (max)	DC-4 GHz	4-12.4 GHz	12.4-18 GHz
	0.2 dB	0.3 dB	0.4 dB
VSWR: (max)	1.2	1.3	1.5
Isolation: (min)	80 dB	70 dB	60 dB

Power Rating, RF, Cold Switching: See page 2.
Impedance: 50 ohms.
Operating Power 25°C:
(Failsafe): 12 Vdc at 250 ma nom.,
28 Vdc at 140 ma nom.
115 Vac at 50 ma nom.
(Latching): 12 Vdc at 350 ma nom. 28 Vdc at 150 ma nom. 115 Vac at 50 ma nom. Current applied 10 ms min.; cuttroat circuitry (standard), recovery time 100 ms nom.

Connectors: RF: SMA, TNC , BNC* Female.
Connectors, Power: Feed through solder lugs.
Life: 1,000,000 operations.
Switching Time: 15 milliseconds max.
Weight: 5 oz.
Environmental Conditions: MIL-S-3928
Operating Mode: Manual, failsafe or latching.
Switching Sequence: *Break before make.*
*BNC not recommended for use above 1 GHz.
*TNC not recommended for use above 12.4 GHz.

To designate the switch desired use:

(1) "M" for Manual or "R" for Remote.
(2) "C" for outboard mountings or "Cin" for inboard mountings.
(3) "B" for BNC, "T" for TNC or "R" for SMA connector types.
(4) "A" for 115 Vac, "D" for 28 Vdc., "H" for 12 Vdc
(5) "I" for Indicators if desired.
(6) "L" for latching cut throat if desired.
(7) "TL" for TTL Driver if desired.

Example: SR-2C-R-D is a remote, outboard mounting, SMA connectors, 28 Vdc, without indicators, failsafe switch.

Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc., can be furnished upon request.
Specifications subject to change without notice.

RLC ELECTRONICS, INC.
83 Radio Circle, Mt. Kisco, NY 10549
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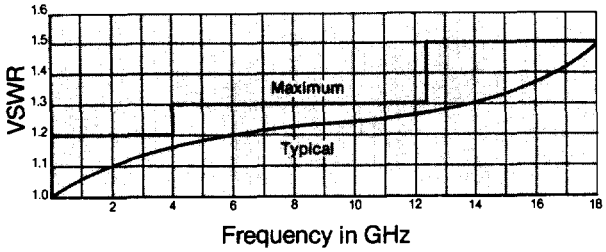
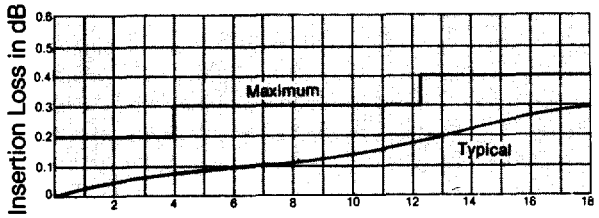
Typical Operating Curves

VSWR Vs. Frequency



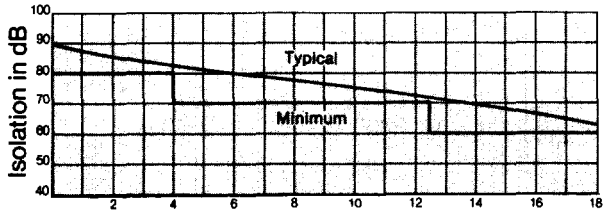
Frequency in GHz

Insertion Loss Vs. Frequency



Frequency in GHz

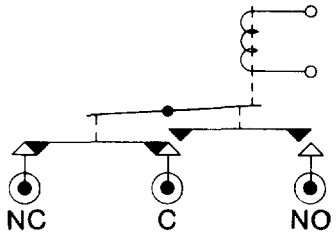
Isolation Vs. Frequency



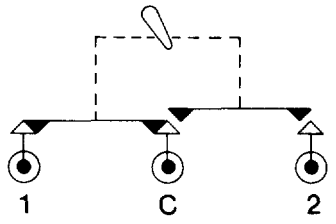
Frequency in GHz

Schematics

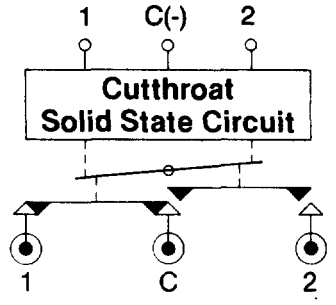
Failsafe



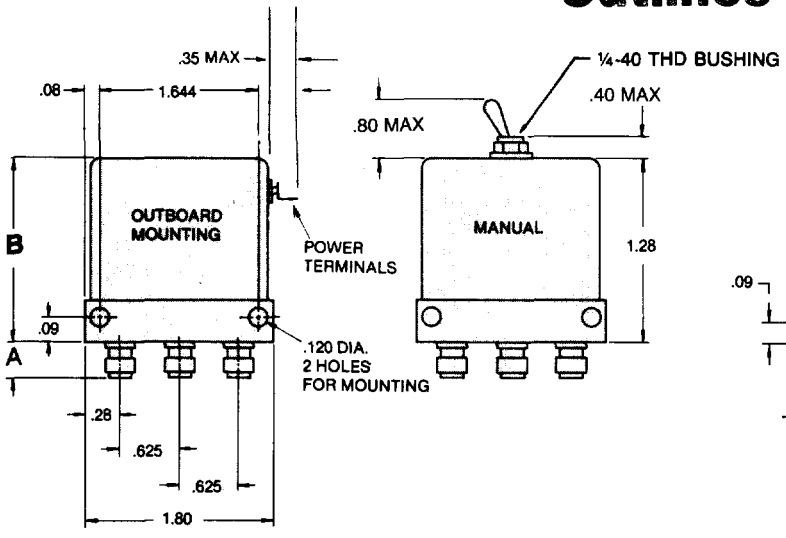
Manual

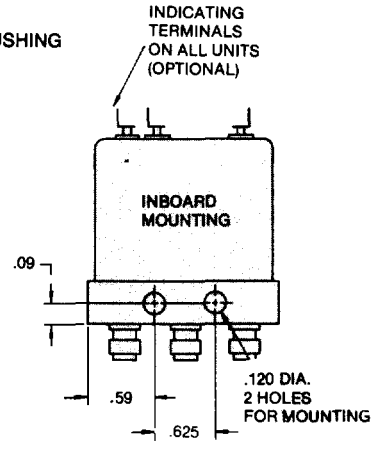


Latching



Outlines





MODEL NO.	B
SR-2C-*-D	1.50
SR-2C-*-D-I	1.50
SR-2C-*-D-I-L	1.80
SR-2C-*-D-TL	1.80
SR-2C-*-D-I-TL	1.80
SR-2C-*-D-I-L-TL	1.80
Add .5 For 115 VAC	
Width of all units .7 in.	

CONN	A
SMA	.30
BNC/TNC	.56

Contact factory for terminal location.

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

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