Miniature Surface Mount Coaxial Switches

RLC Electronics' miniature surface mount coaxial switch is a single pole two position type. The switch provides extremely high reliability, long life, and excellent electrical performance characteristics in a miniature package. The power consumption is approximately one half that of the miniature connectorized switches. The switch is available with a choice of four different operating frequencies, three coil voltages, and two different pin configurations.

Specifications

SR-2-min-min^{-1-2-3}

Switch Type	Single pole two position			
Frequency (GHz)	DC-2.0	2.0-5.0	5.0-12.4	12.4-18
Insertion Loss (Max dB)	0.2	0.3	0.4	0.7
VSWR (Max)	1.3	1.4	1.5	1.7
Isolation (dB Min)	70	60	50	40

Power Rating, RF Cold Switching: See page 79

Impedance: 50 ohms

Operating Power: 5vdc at 310mA
25 deg C 12vdc at 130mA
(ma nominal) 28vdc at 75mA

Connectors: RF and power: .018 DIA. Pins

Life: 1,000,000 operations

Switching Time: 15 milliseconds max.

Weight: 0.6 oz.

Environmental Conditions: MIL- DTL-3928

Operating Mode: Failsafe or Pulse latching

Switching Sequence: Break before make

To designate the Switch desired use:

(1) `H' for 12-15 volts coil `D' for 24-28 volts coil `E' for 5 volt coil

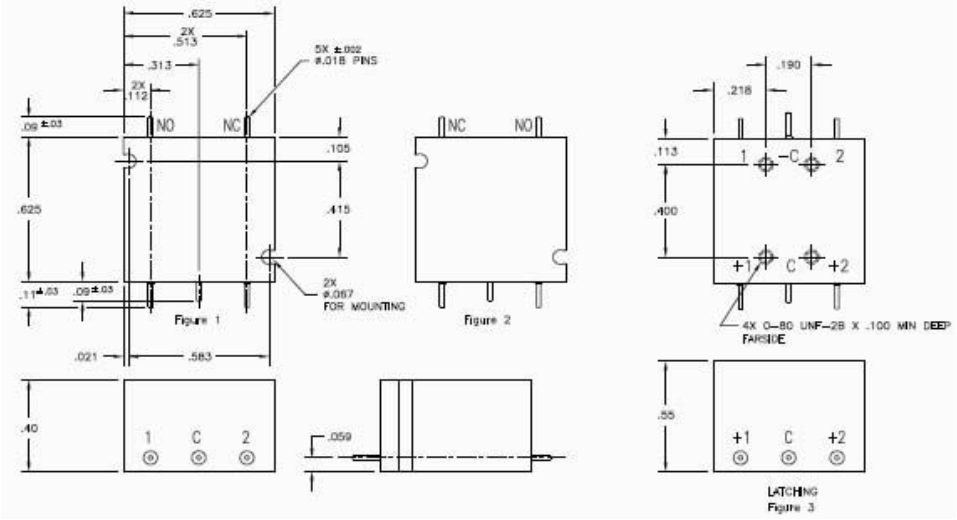
(2) `2' for DC-2GHz `5' for DC-5 GHz `12' for DC-12.4 GHz `18' for DC-18 GHz

(3) `L' for Pulse latching

(4) `A' for Figure 1 (pin configuration) "B' for Figure 2 (pin configuration)

Example: SR-2min-min-D-2-A is a SPDT, 24-28vdc, DC-2 GHz, failsafe switch. (per Figure 1)
SR-2min-min-D-2-L is a SPDT, 24-28vdc, DC-2 GHz Pulse latching switch. (per Figure 3)

Outline Drawing



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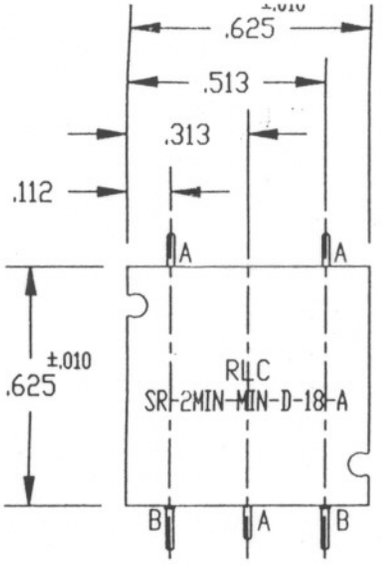
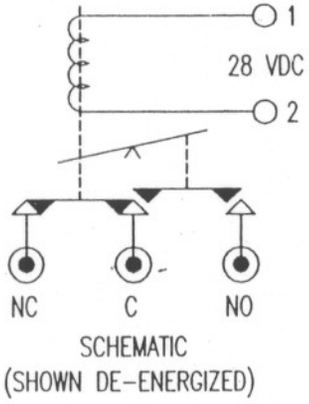
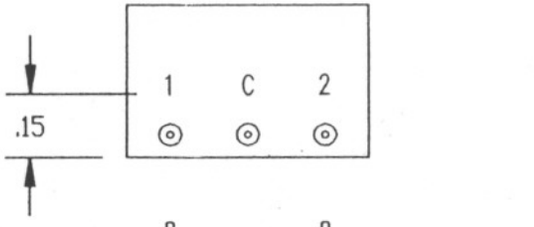
DO NOT SCALE DRAWING

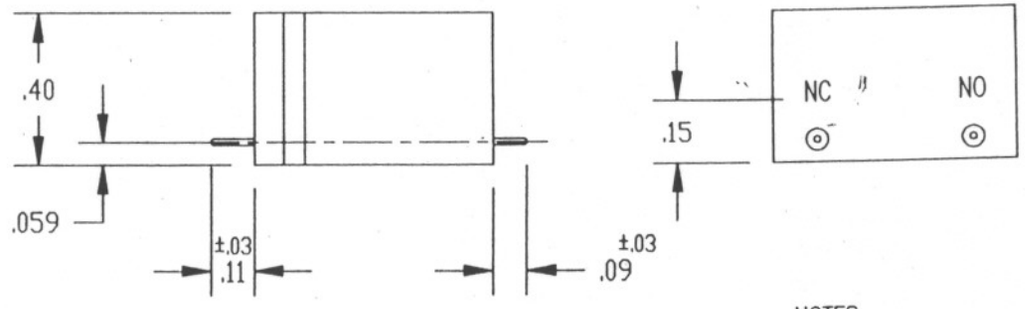
REV	DESCRIPTION	DT	BY
A	40492		

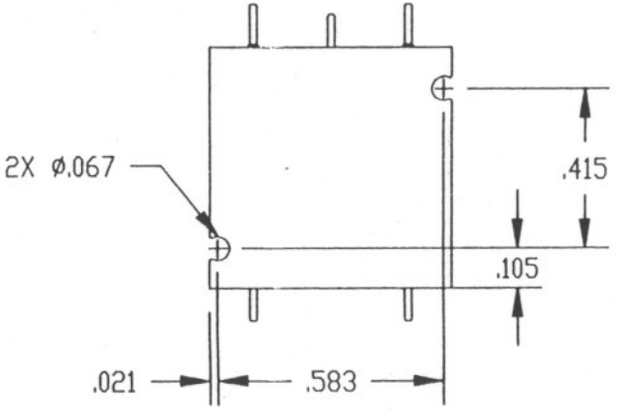




SCHEMATIC
(SHOWN DE-ENERGIZED)





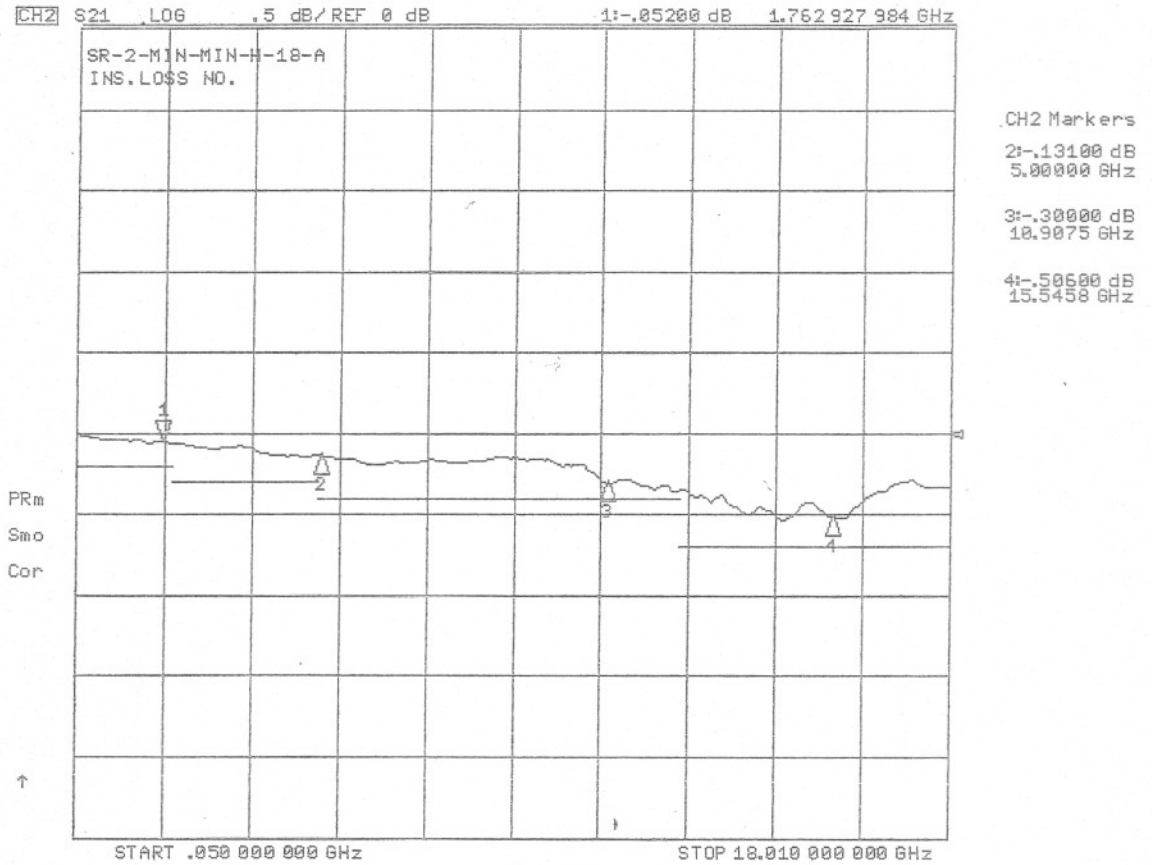


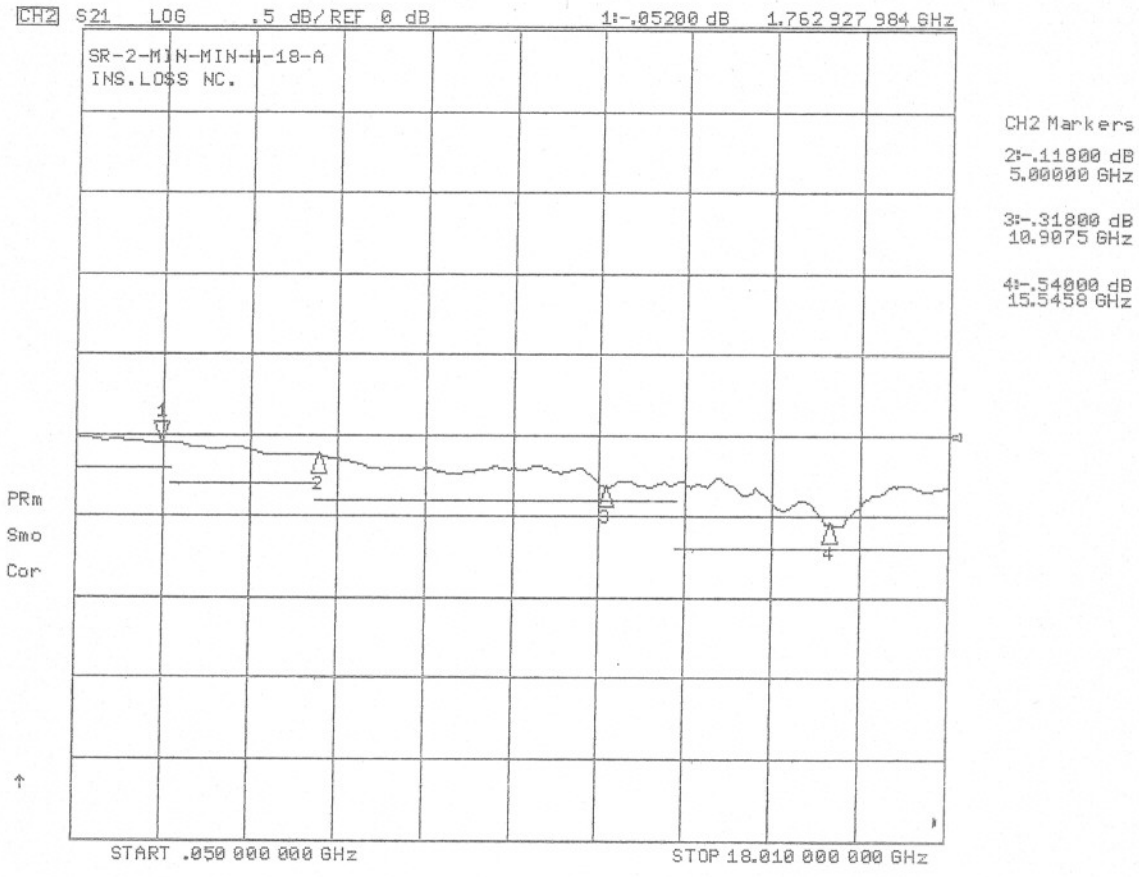
NOTES:

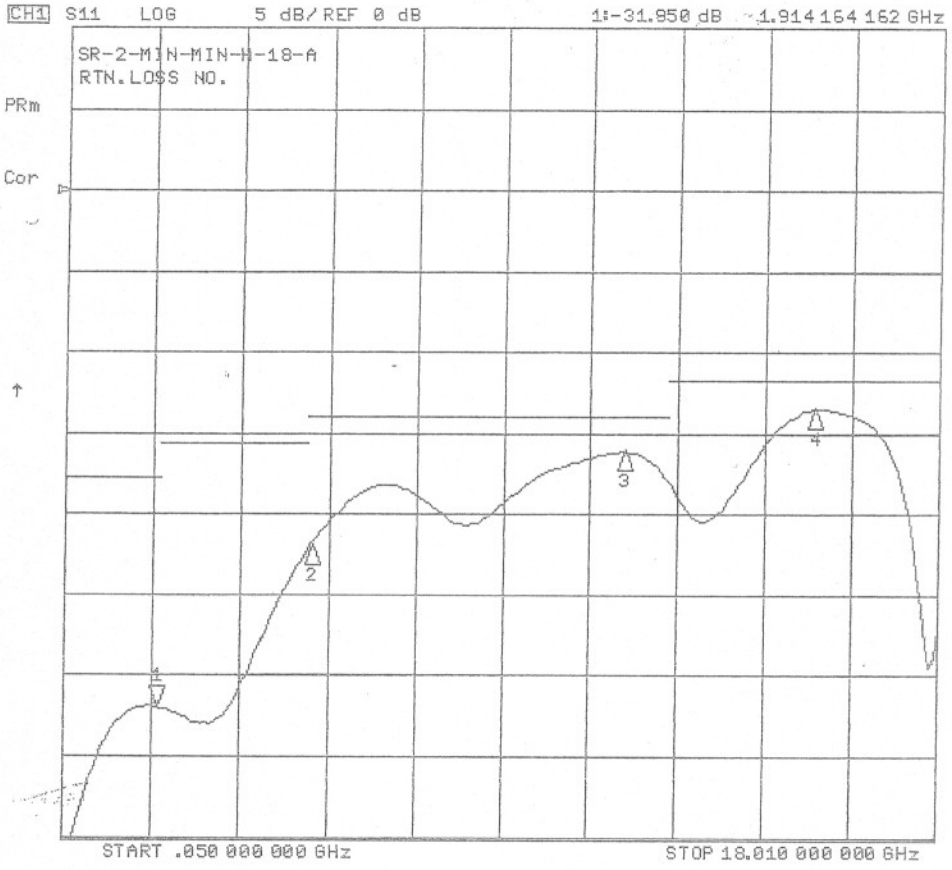
1) A PINS (3) FOR THE RF
2) B PINS (2) FOR THE COIL
3) PINS DIAMETER .018

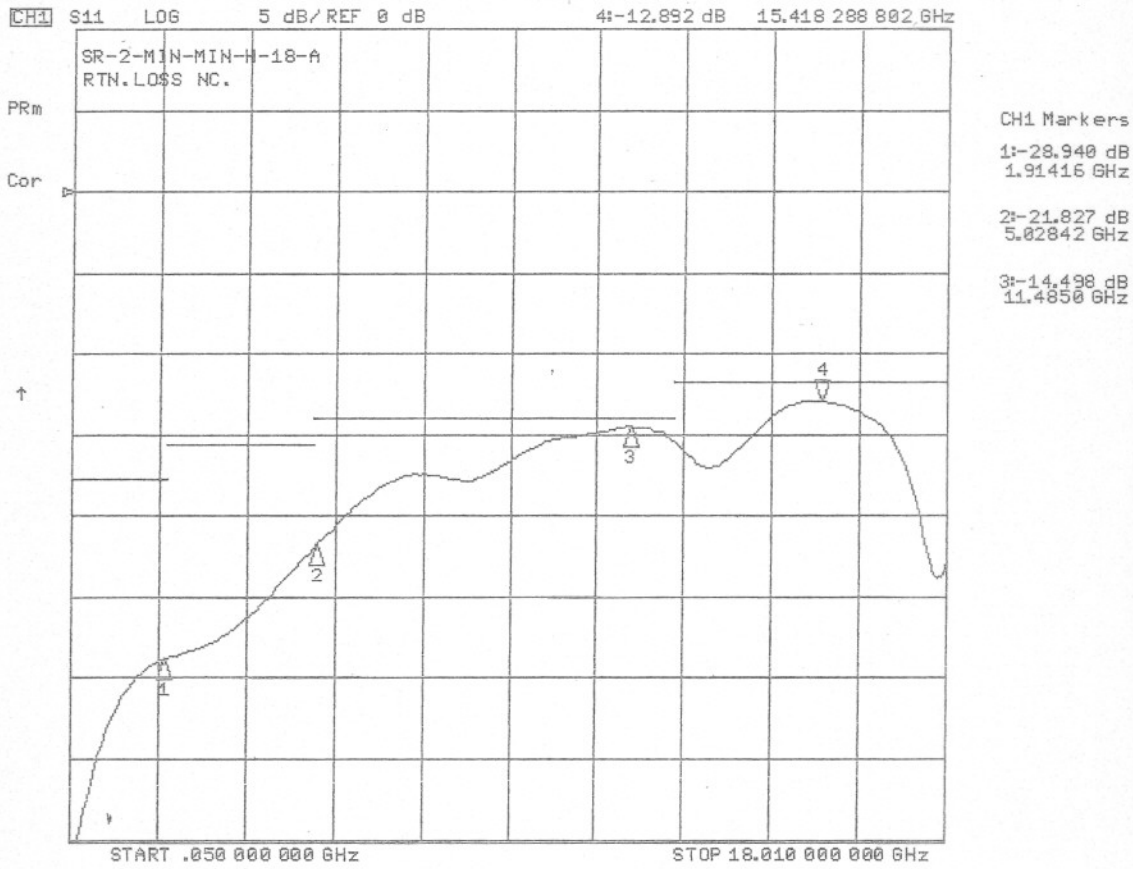
MATERIAL	SR-2MIN-MIN-D-18-A SWITCH OUTLINE		
	TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/64 ANGLES ± 1/2 XX ± .020 XXX ± .005	B/M 5065	SOF
FINISH			SCALE 2:1
		DWN PF	2-26-01
		APPD CA	3/08/01
RLC ELECTRONICS 83 RADIO CIRCLE, MT. KISCO, NEW YORK 10549		A	40492

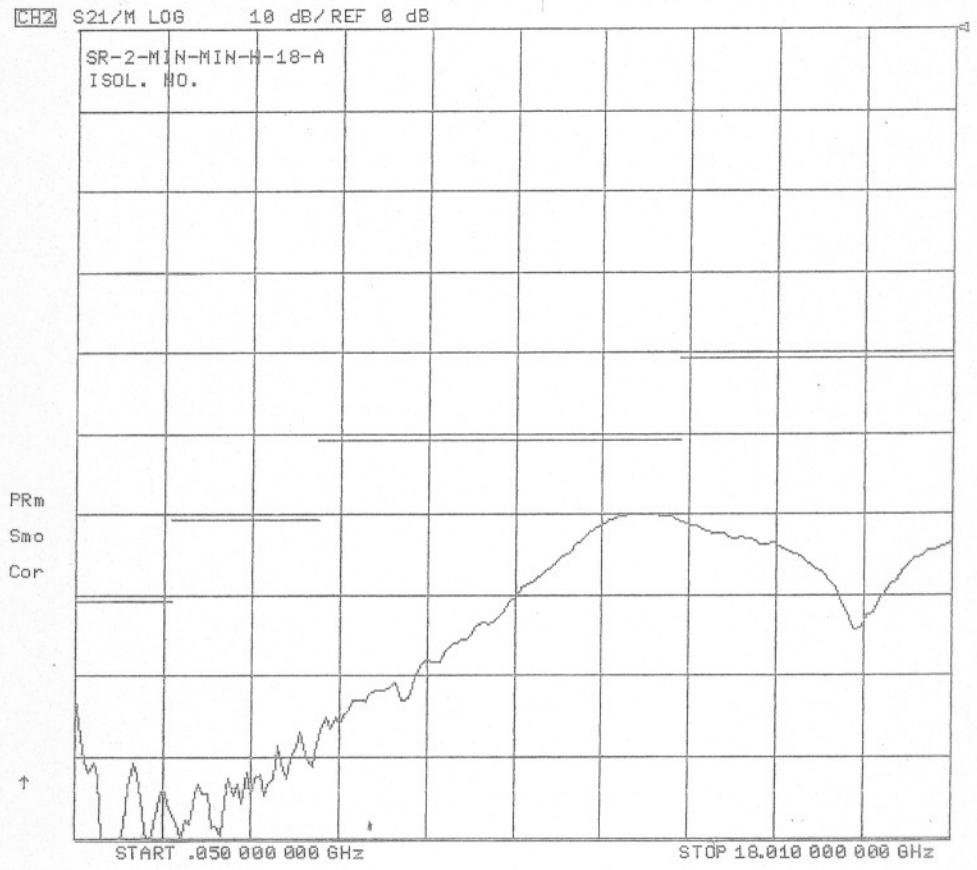
CK-CS-1 DWG

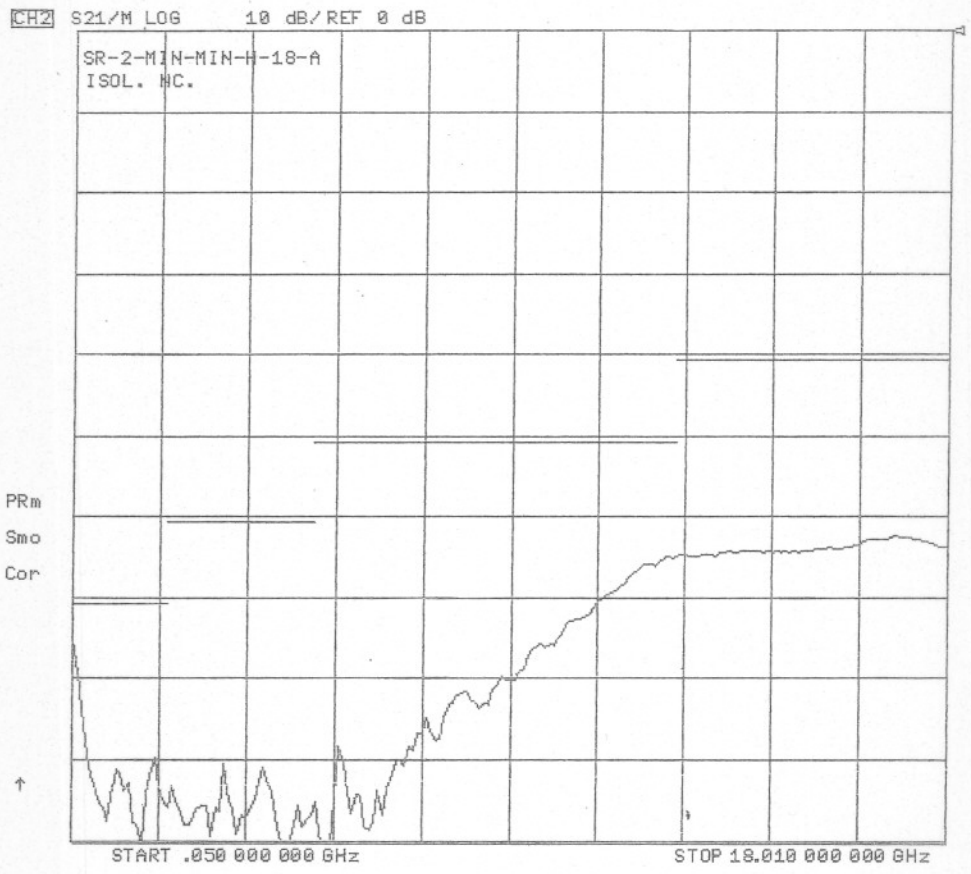

CH2 S21 LOG .5 dB/ REF 0 dB
1:-.05200 dB 1.762 927 984 GHz
SR-2-MIN-MIN-H-18-A
INS.LOSS NO.
CH2 Markers
2:-.13100 dB
5.00000 GHz
3:-.30000 dB
10.9075 GHz
4:-.50600 dB
15.5458 GHz
PRm
Smo
Cor
START .050 000 000 GHz
STOP 18.010 000 000 GHz


CH2 S21 LOG .5 dB/ REF 0 dB
1:-.05200 dB 1.762 927 984 GHz
SR-2-MIN-MIN-H-18-A
INS.LOSS NC.
CH2 Markers
2:-.11800 dB
5.00000 GHz
3:-.31800 dB
10.9075 GHz
4:-.54000 dB
15.5458 GHz
PRm
Smo
Cor
START .050 000 000 GHz
STOP 18.010 000 000 GHz


CH1 S11 LOG 5 dB/ REF 0 dB
1:-31.950 dB 1.914 164 162 GHz
SR-2-MIN-MIN-H-18-A
RTN.LOSS NO.
PRm
Cor
CH1 Markers
2:-21.921 dB
5.04998 GHz
3:-16.106 dB
11.4850 GHz
4:-13.551 dB
15.4182 GHz
START .050 000 000 GHz
STOP 18.010 000 000 GHz


CH1 S11 LOG 5 dB/ REF 0 dB
4:-12.892 dB 15.418 288 802 GHz
SR-2-MIN-MIN-H-18-A
RTN.LO$S NC.
PRm
Cor
CH1 Markers
1:-28.940 dB
1.91416 GHz
2:-21.827 dB
5.02842 GHz
3:-14.498 dB
11.4850 GHz
START .050 000 000 GHz
STOP 18.010 000 000 GHz


CH2 S21/M LOG 10 dB/ REF 0 dB
SR-2-MIN-MIN-H-18-A
ISOL. NO.
PRm
Smo
Cor
START .050 000 000 GHz
STOP 18.010 000 000 GHz


CH2 S21/M LOG 10 dB/ REF 0 dB
SR-2-MIN-MIN-H-18-A
ISOL. NC.
PRm
Smo
Cor
START .050 000 000 GHz
STOP 18.010 000 000 GHz