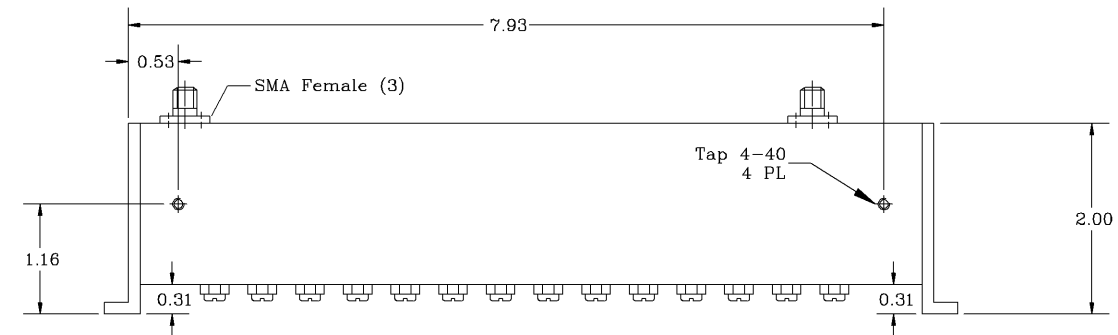
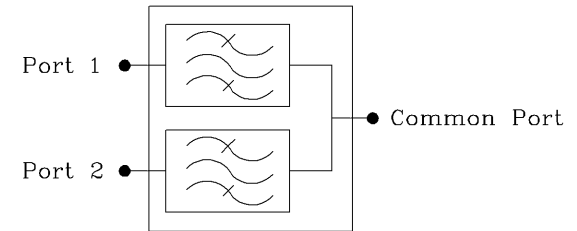
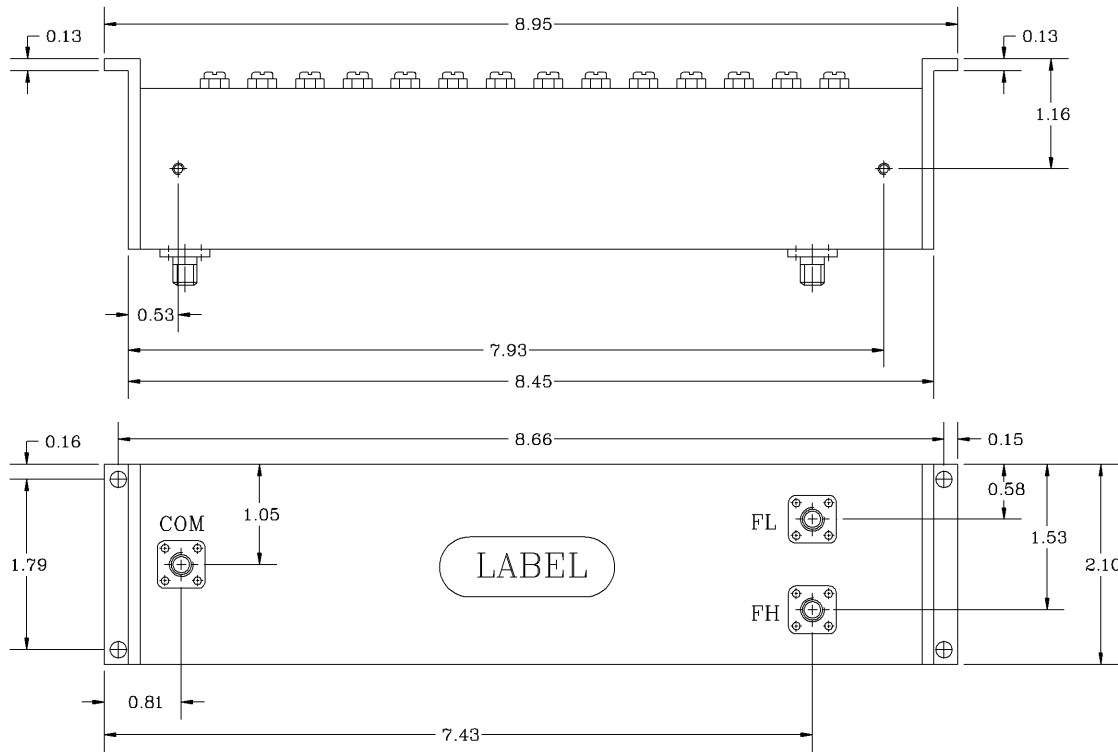


REVISIONS			
REV		DATE	APPROVED



### Electrical Specifications

- \*FL Pass Band Range [MHz] : 1230 to 1307
- Pass Band Insertion Loss [dB] : <0.8, 0.6 (Typ.)
- Pass Band Ripple [dB] : <0.5 P.T.P
- FL Attenuation @ 1510 to 1587 MHz [dB] : 90 (Min.), 100 (Typ.)
- \*FH Pass Band Range [MHz] : 1510 to 1587
- Pass Band Insertion Loss [dB] : <0.8, 0.6 (Typ.)
- Pass Band Ripple [dB] : <0.5 P.T.P
- FH Attenuation @ 1230 to 1307 MHz [dB] : 90 (Min.), 100 (Typ.)
- \*Isolation Between Filters [dB] : 90 (Min.), 100 Typ.
- \*Pass Band Return Loss [dB] : -20 (Max.), <1.22:1
- \*Input/Output Impedance : 50 ohm
- \*RF Power Capability CW : 20 Watts
- \*Input/Output @ DC Ground Potential

OPERATING TEMPERATURE RANGE: -20°C TO +70°C

PROPRIETARY DOCUMENT:  
 THE CONTENTS OF THIS DOCUMENT WITH ALL INFORMATION AND PROCESSES ARE THE SOLE PROPERTY OF G-Way Microwave. THIS DOCUMENT MAY NOT BE DUPLICATED OR DISCLOSED TO ANY PARTY EXCEPT BY EXPRESSLY WRITTEN PERMISSION. THE ONLY AUTHORIZED USE OF THIS DOCUMENT BY A VENDOR IS FOR QUOTE PURPOSES AND SAID VENDOR AGREES NOT TO DISCLOSE ITS CONTENTS TO ANY THIRD PARTY. THIS DOCUMENT IS COPYRIGHTED 1998.

#### NOTES:

1. BREAK ALL CORNERS & EDGES.005/.010.
2. FINAL FINISH:  
EPOXY GRAY - OPTIONAL

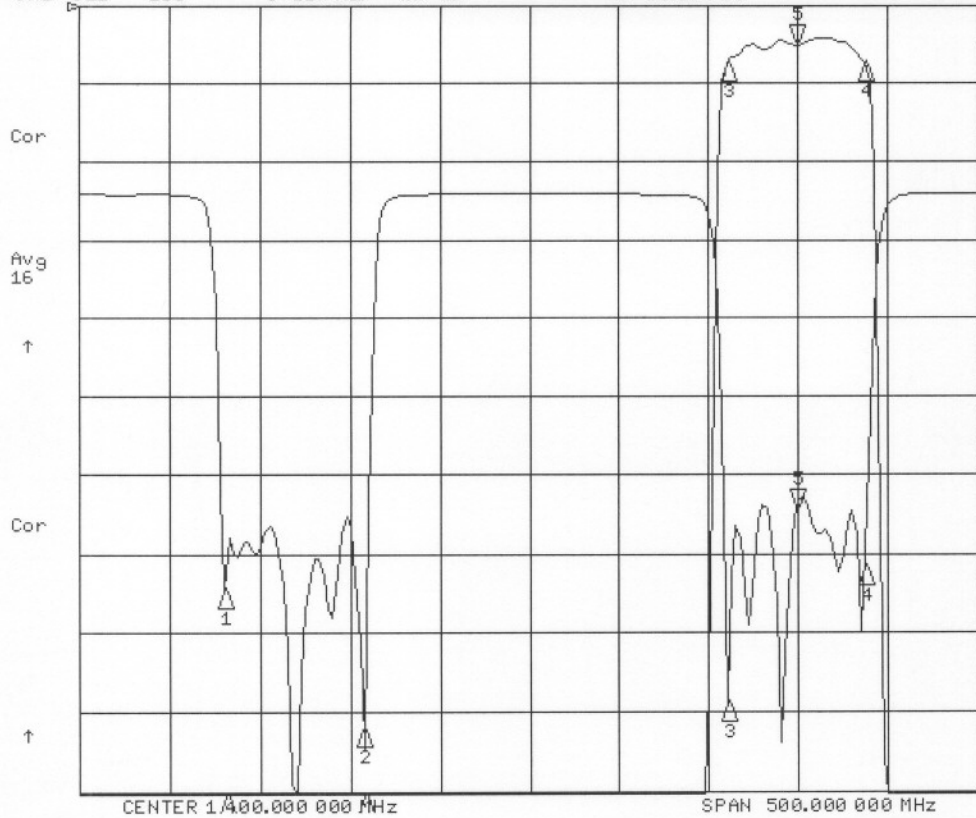
DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO:		<b>G-Way Microwave</b>	
ANGLES	DECIMALS	APPROVALS	DATE		
± 1°	X ± .05 XX ± .01 XXX ± .003	DRAWN Segal	10/05	TITLE Diplexer 1408 MHz, BW=77 MHz	
TREATMENT	CHECKED			CD1408/77SK-E	
FINISH 63/	ENG.	DESIGN ACTIVITY		SIZE A	CAGE CODE 3K1H4
MATERIAL AL6061-T6				DWG NO: CD1408/77SK-E-1	REV. 0
				SCALE None	SHEET 1 OF 1

CD/408/77SK-E

FH

27 Oct 2005 16:53:45

CH1 S21 LOG 1 dB/REF 0 dB 5: -51.290 dB 1 548.500 000 MHz  
 CH2 S11 LOG 5 dB/REF -18 dB 5: -20.234 dB



CH1 Markers

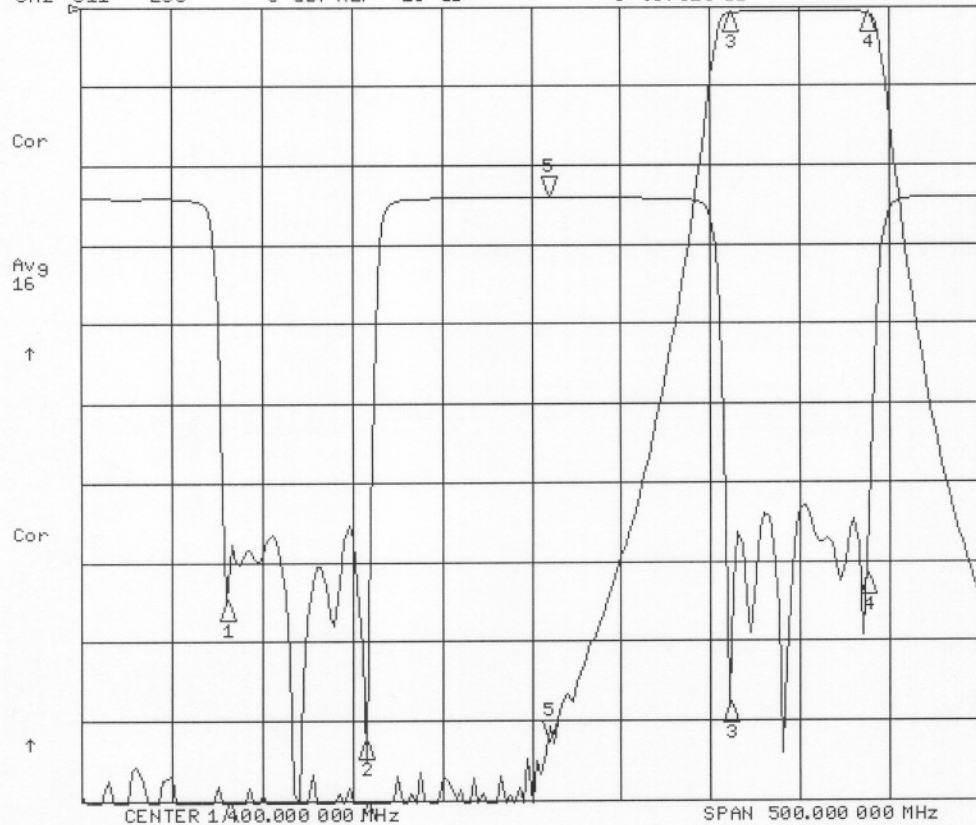
- 1:-98.230 dB  
1.23000 GHz
- 2:-103.38 dB  
1.30700 GHz
- 3:-72480 dB  
1.51000 GHz
- 4:-72320 dB  
1.58700 GHz

CH2 Markers

- 1:-25.251 dB  
1.23000 GHz
- 2:-33.921 dB  
1.30700 GHz
- 3:-32.404 dB  
1.51000 GHz
- 4:-23.766 dB  
1.58700 GHz

27 Oct 2005 16:53:54

CH1 S21 LOG 10 dB/REF 0 dB 5: -92.628 dB 1 408.500 000 MHz  
 CH2 S11 LOG 5 dB/REF -18 dB 5: -.07920 dB



CH1 Markers

- 1:-107.99 dB  
1.23000 GHz
- 2:-111.23 dB  
1.30700 GHz
- 3:-72430 dB  
1.51000 GHz
- 4:-72930 dB  
1.58700 GHz

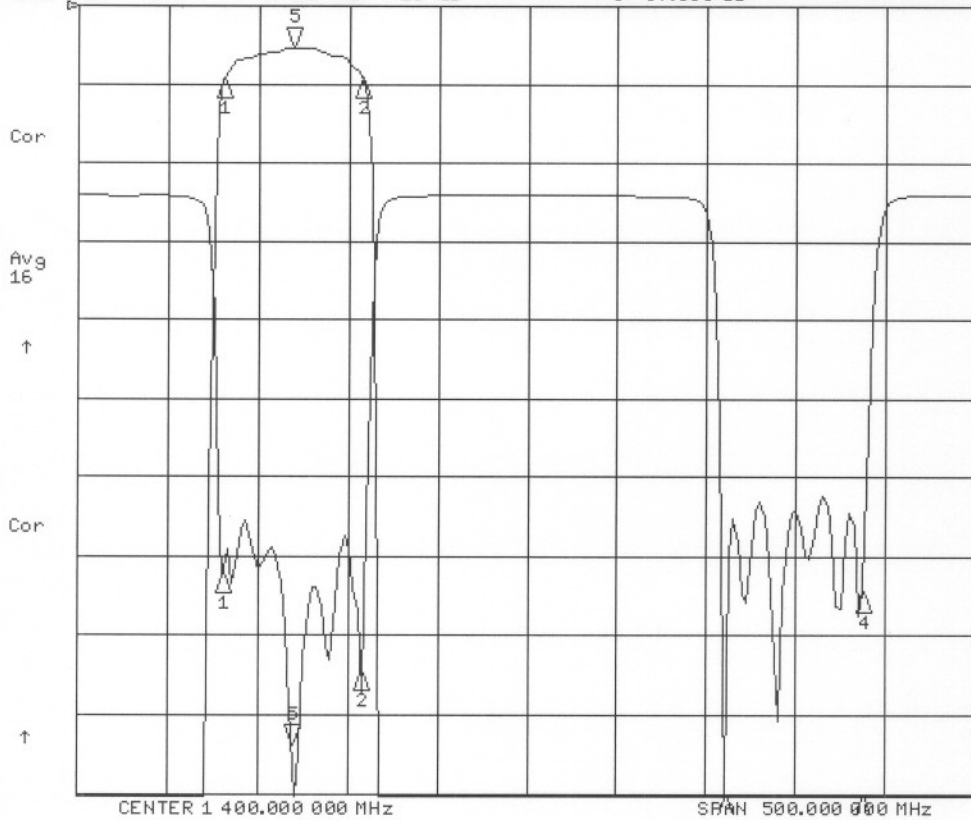
CH2 Markers

- 1:-25.386 dB  
1.23000 GHz
- 2:-34.239 dB  
1.30700 GHz
- 3:-31.936 dB  
1.51000 GHz
- 4:-23.873 dB  
1.58700 GHz

CD1408/775K-E

FL

27 Oct 2005 16:52:29  
 CH1 S21 LOG 1 dB/REF 0 dB 5:-.53110 dB 1 268.500 000 MHz  
 CH2 S11 LOG 5 dB/REF -18 dB 5:-37.363 dB



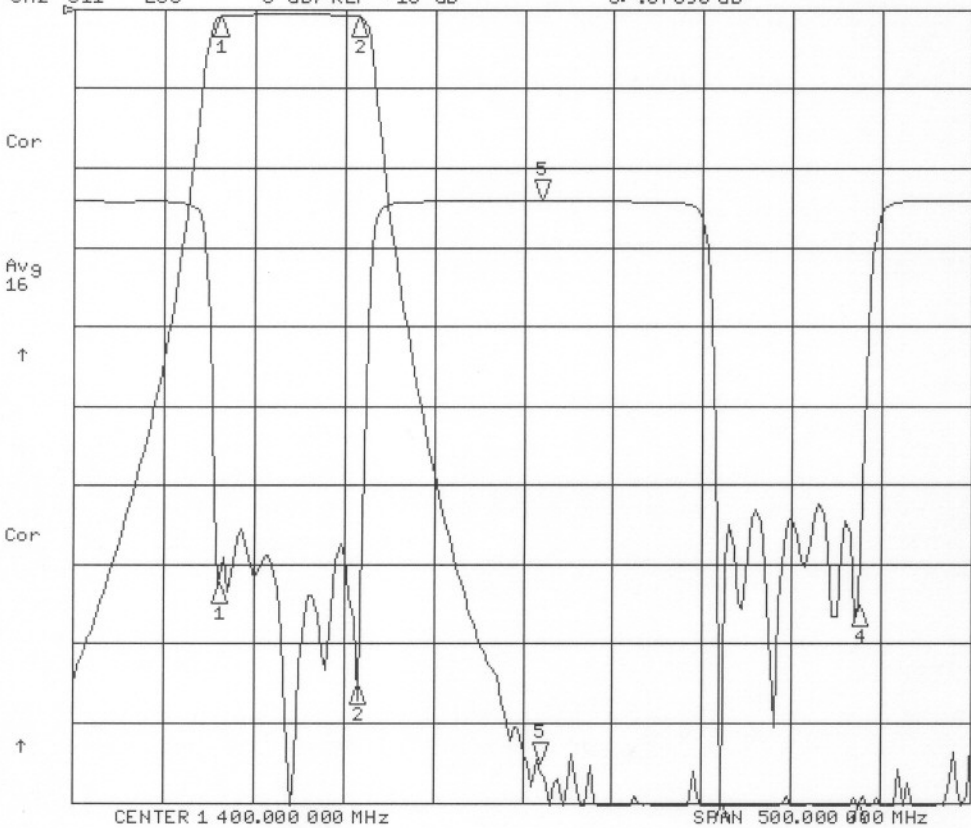
CH1 Markers

- 1:-.91110 dB  
1.23000 GHz
- 2:-.92510 dB  
1.30700 GHz
- 3:-104.12 dB  
1.51000 GHz
- 4:-99.596 dB  
1.58700 GHz

CH2 Markers

- 1:-24.103 dB  
1.23000 GHz
- 2:-30.264 dB  
1.30700 GHz
- 3:-40.912 dB  
1.51000 GHz
- 4:-25.348 dB  
1.58700 GHz

27 Oct 2005 16:52:54  
 CH1 S21 LOG 10 dB/REF 0 dB 5:-95.166 dB 1 408.500 000 MHz  
 CH2 S11 LOG 5 dB/REF -18 dB 5:-.07890 dB



CH1 Markers

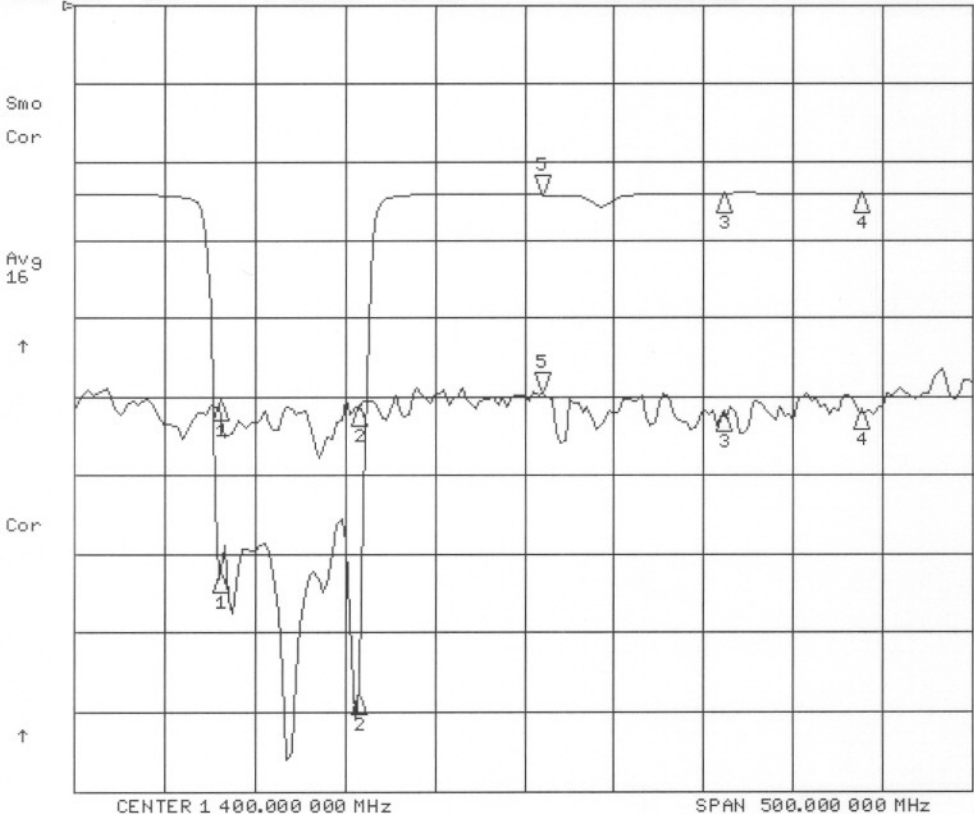
- 1:-.91160 dB  
1.23000 GHz
- 2:-.92190 dB  
1.30700 GHz
- 3:-103.30 dB  
1.51000 GHz
- 4:-101.53 dB  
1.58700 GHz

CH2 Markers

- 1:-24.185 dB  
1.23000 GHz
- 2:-30.574 dB  
1.30700 GHz
- 3:-40.062 dB  
1.51000 GHz
- 4:-25.613 dB  
1.58700 GHz

CD1408/77SK-E  
Isolation

27 Oct 2005 16:54:33  
 [CH1] S21 LOG 20 dB/REF 0 dB 5:-99.392 dB 1 400.500 000 MHz  
 [CH2] S11 LOG 5 dB/REF -18 dB 5:-.09430 dB

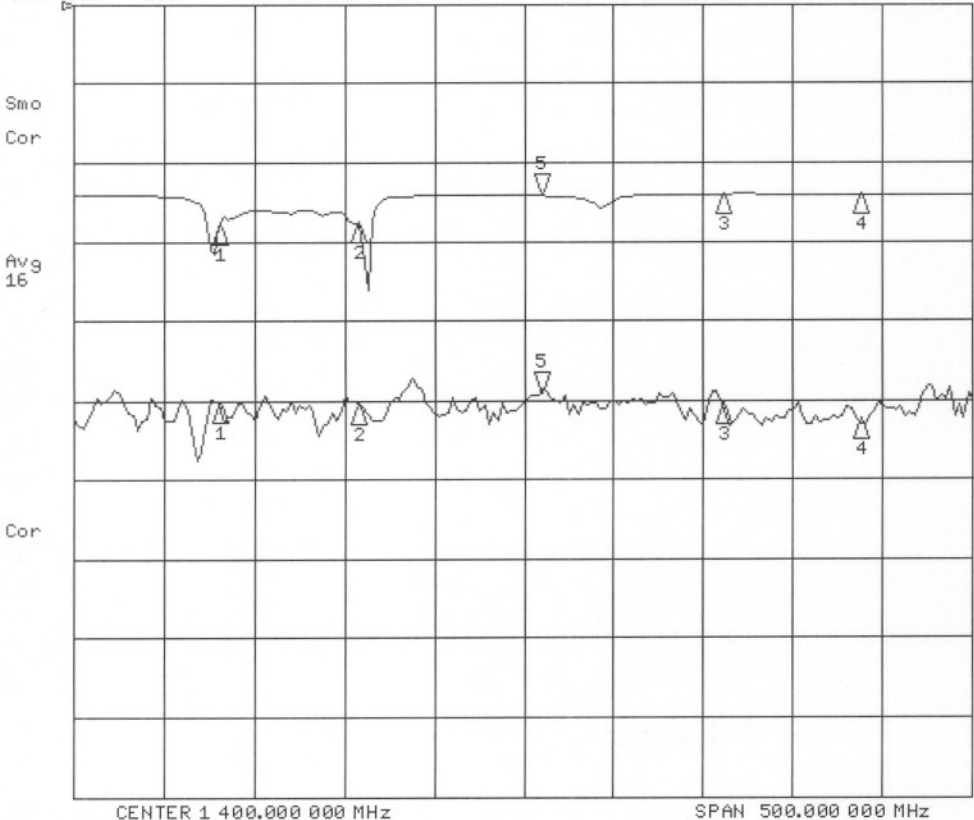


CH1 Markers  
 1:-100.97 dB  
 1.23000 GHz  
 2:-102.37 dB  
 1.30700 GHz  
 3:-104.28 dB  
 1.51000 GHz  
 4:-103.60 dB  
 1.58700 GHz

COM@ 50R

CH2 Markers  
 1:-24.238 dB  
 1.23000 GHz  
 2:-31.970 dB  
 1.30700 GHz  
 3:-.01610 dB  
 1.51000 GHz  
 4:-.01350 dB  
 1.58700 GHz

27 Oct 2005 16:54:41  
 [CH1] S21 LOG 20 dB/REF 0 dB 5:-98.230 dB 1 400.500 000 MHz  
 [CH2] S11 LOG 5 dB/REF -18 dB 5:-.09150 dB



CH1 Markers  
 1:-100.66 dB  
 1.23000 GHz  
 2:-101.07 dB  
 1.30700 GHz  
 3:-101.15 dB  
 1.51000 GHz  
 4:-105.13 dB  
 1.58700 GHz

COM@ OPEN

CH2 Markers  
 1:-1.9148 dB  
 1.23000 GHz  
 2:-1.8474 dB  
 1.30700 GHz  
 3:-.01490 dB  
 1.51000 GHz  
 4:-.01630 dB  
 1.58700 GHz