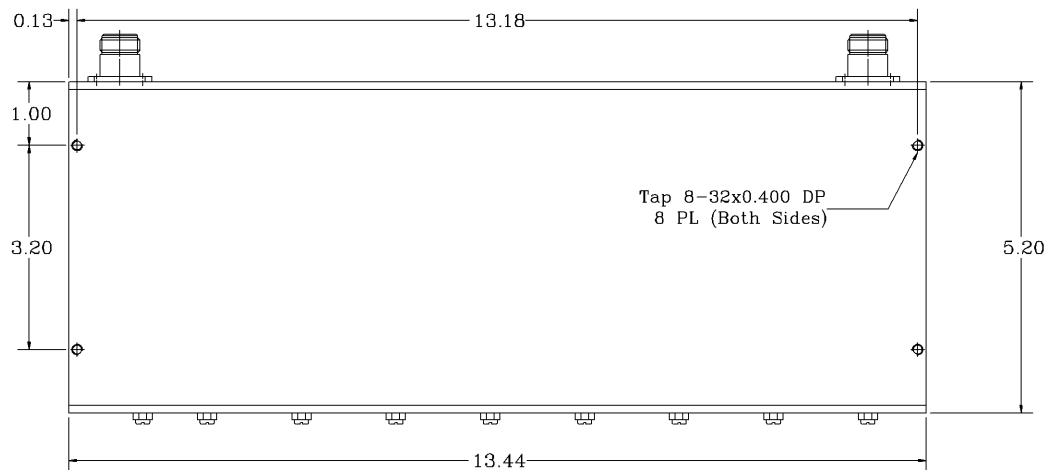
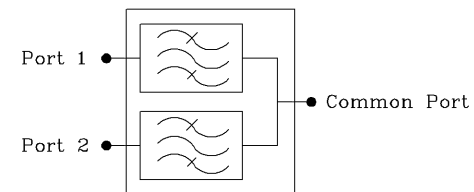
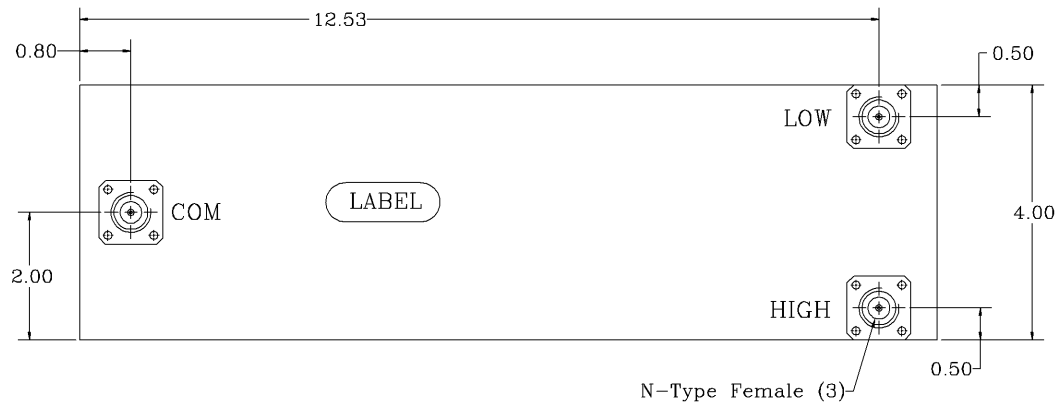


REVISIONS			
REV		DATE	APPROVED



Electrical Specifications

- *TX 1dB Low Pass Band Frequency Range [MHz] : 450 to 454
- *RX 1dB High Pass Band Frequency Range [MHz] : 465 to 470
- *Pass Band Insertion Loss [dB] : <1.9, 1.7 (Typ.)
- *Pass Band Ripple [dB] : < 0.5 P-T-P
- *Low (TX) Attenuation DC to 400 MHz [dB] : 40 (Min.), 50 (Typ.)
@ 465 to 470 MHz [dB] : 100 (Min.)
- *High (RX) Attenuation DC to 400 MHz [dB] : 70 (Min.)
@ 450 to 454 MHz [dB] : 98 (Min.)
- *Pass Band Return Loss [dB] : -17 (Max.), <1.33:1
- *Input/Output Impedance : 50 ohm
- *RF Power Capability CW : 200 Watts
PEAK : 1600 Watts
- *Input/Output @ DC Ground Potential

OPERATING TEMPERATURE RANGE: -0°C TO +80°C

UNIT MEETS AND EXCEEDS SAE J1211 STANDARDS

PROPRIETARY DOCUMENT:
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NOTES:

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

DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO:		G-Way Microwave					
ANGLES	DECIMALS	APPROVALS	DATE					TITLE High "Q" Diplexer UHF	
± 1°	.X ± .05 .XX ± .01 .XXX ± .003	DRAWN Segal	04/08	CD459.5/5MK-F7		SIZE	CAGE CODE	DWG NO:	REV.
TREATMENT		CHECKED		A	3K1H4	CD459.5/5MK-F7-1	0		
FINISH	63	ENG.		SCALE	None				
MATERIAL	AL6061-T6	DESIGN ACTIVITY							SHEET 1 OF 1

CD459.5/5MK-F7 room TEMP.

9 Jun 2008 04:20:49

CH1 S21 LOG 10 dB/REF 0 dB 5:-59.025 dB 459.500 000 MHz
 CH2 S11 LOG 10 dB/REF -17 dB 5:-33.240 dB



CH1 Markers

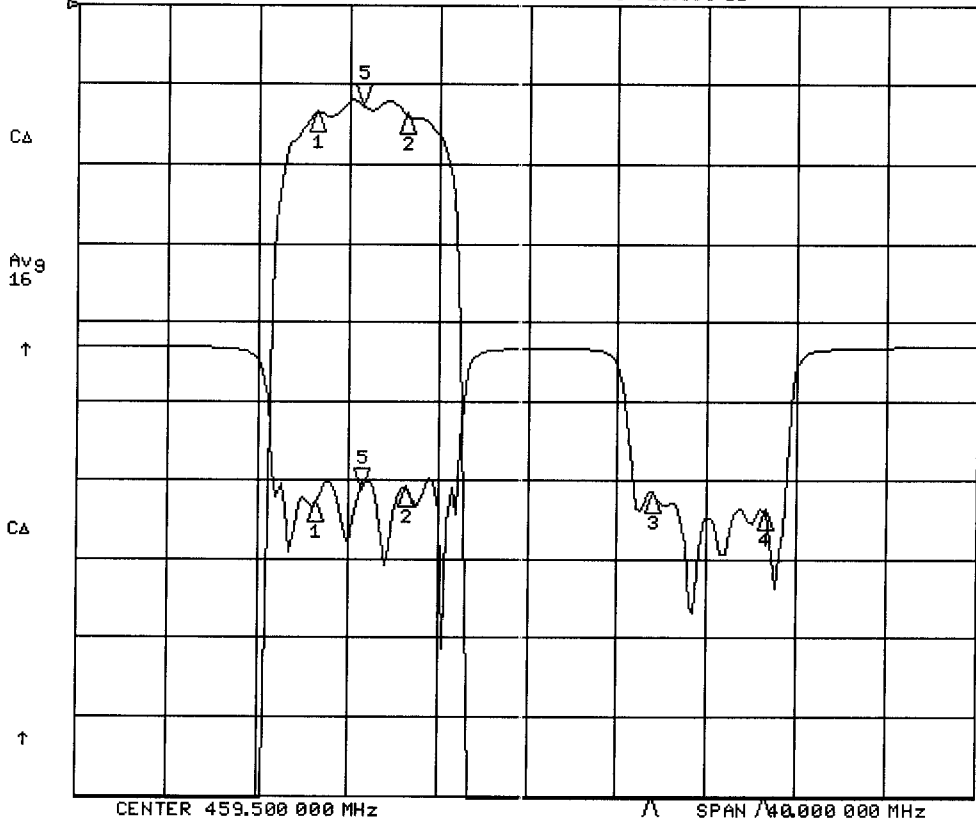
- 1:-1.3591 dB
450.000 MHz
- 2:-1.3718 dB
454.000 MHz
- 3:-108.72 dB
465.000 MHz
- 4:-105.94 dB
470.000 MHz

CH2 Markers

- 1:-19.909 dB
450.000 MHz
- 2:-17.960 dB
454.000 MHz
- 3:-18.523 dB
465.000 MHz
- 4:-20.858 dB
470.000 MHz

9 Jun 2008 04:21:00

CH1 S21 LOG 1 dB/REF 0 dB 5:-1.2463 dB 452.000 000 MHz
 CH2 S11 LOG 10 dB/REF -17 dB 5:-18.050 dB



CH1 Markers

- 1:-1.3577 dB
450.000 MHz
- 2:-1.3710 dB
454.000 MHz
- 3:-110.13 dB
465.000 MHz
- 4:-108.84 dB
470.000 MHz

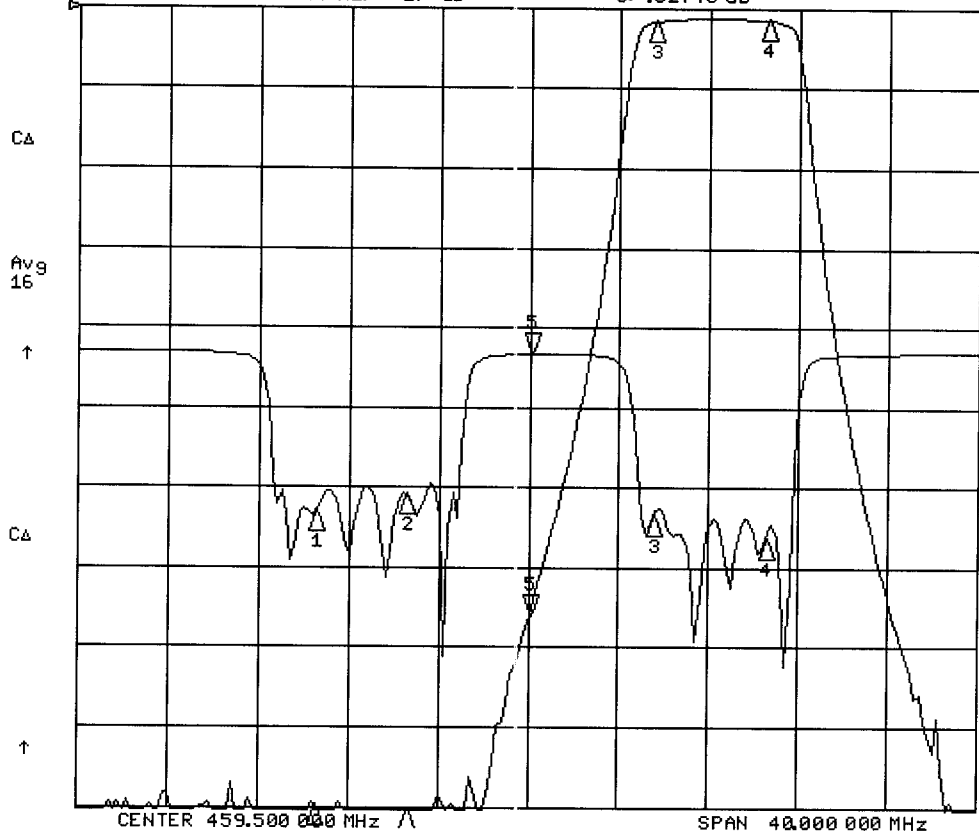
CH2 Markers

- 1:-19.930 dB
450.000 MHz
- 2:-17.948 dB
454.000 MHz
- 3:-18.522 dB
465.000 MHz
- 4:-20.867 dB
470.000 MHz

9 Jun 2008 04:22:08

CH1 S21 LOG 10 dB/REF 0 dB
CH2 S11 LOG 10 dB/REF -17 dB

5:-76.057 dB 459.500 000 MHz
5:-.32740 dB



CH1 Markers

- 1:-101.96 dB 450.000 MHz
- 2:-102.17 dB 454.000 MHz
- 3:-1.7531 dB 465.000 MHz
- 4:-1.4822 dB 470.000 MHz

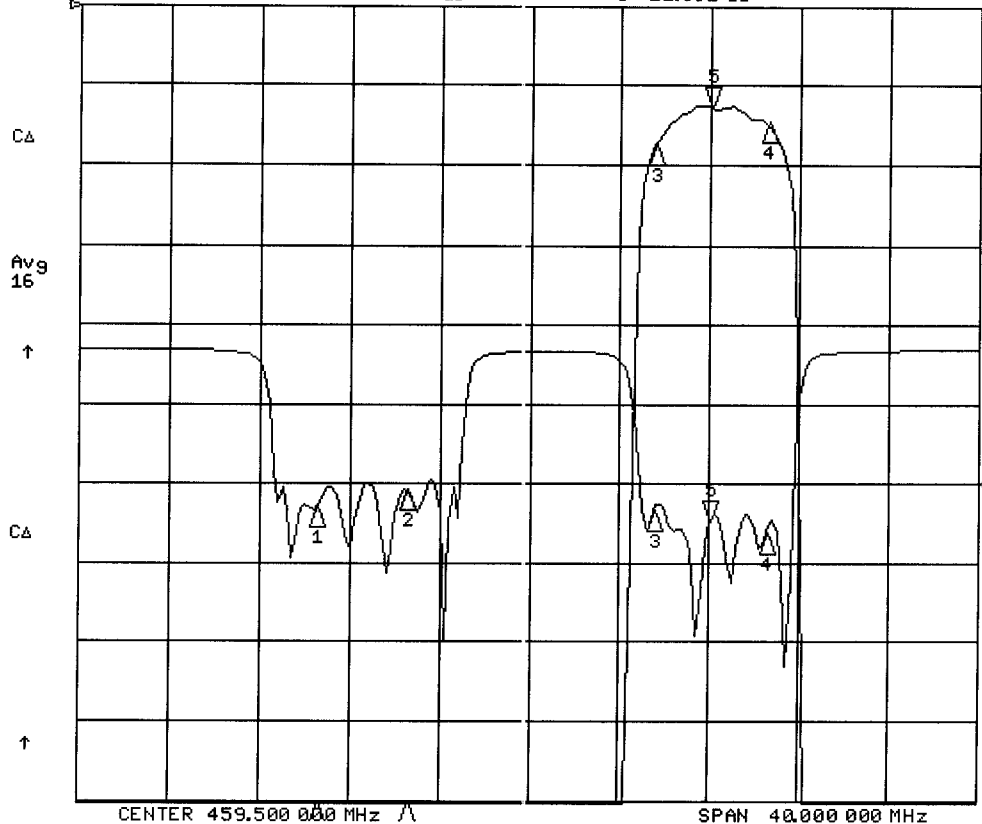
CH2 Markers

- 1:-19.959 dB 450.000 MHz
- 2:-17.908 dB 454.000 MHz
- 3:-20.500 dB 465.000 MHz
- 4:-23.501 dB 470.000 MHz

9 Jun 2008 04:22:27

CH1 S21 LOG 1 dB/REF 0 dB
CH2 S11 LOG 10 dB/REF -17 dB

5:-1.2843 dB 467.500 000 MHz
5:-21.851 dB



CH1 Markers

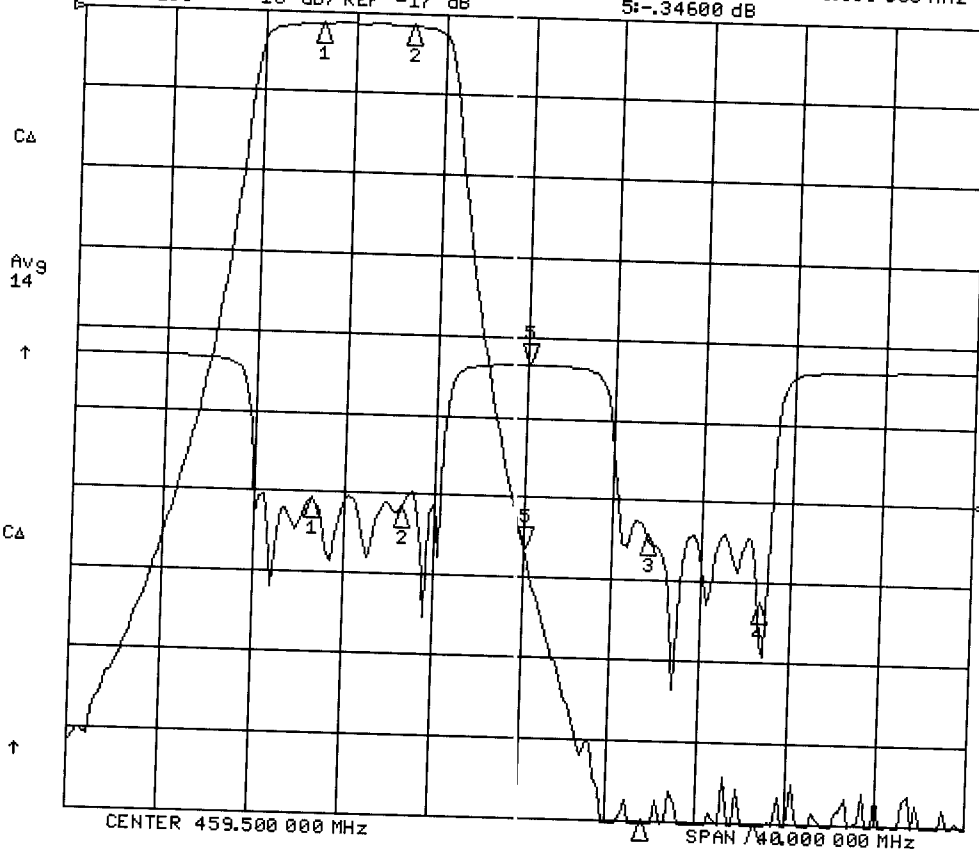
- 1:-108.30 dB 450.000 MHz
- 2:-112.63 dB 454.000 MHz
- 3:-1.7490 dB 465.000 MHz
- 4:-1.4792 dB 470.000 MHz

CH2 Markers

- 1:-19.992 dB 450.000 MHz
- 2:-17.877 dB 454.000 MHz
- 3:-20.521 dB 465.000 MHz
- 4:-23.441 dB 470.000 MHz

+80°C

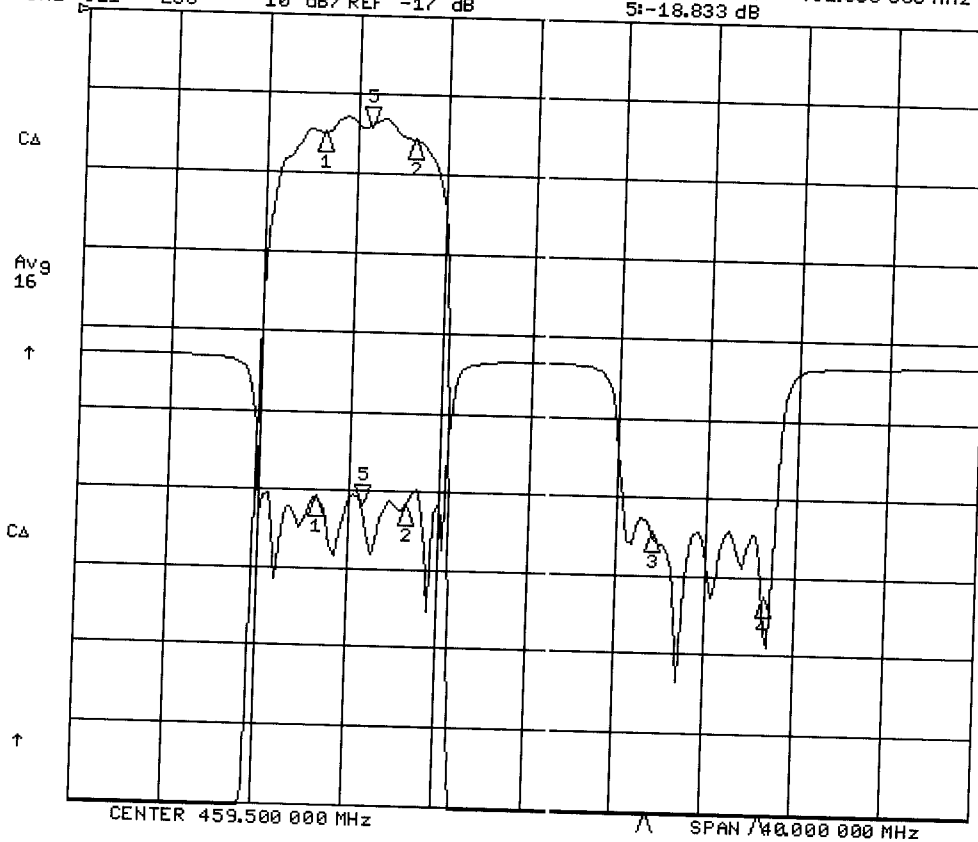
9 Jun 2008 06:14:59
CH1 S21 LOG 10 dB/REF 0 dB
CH2 S11 LOG 10 dB/REF -17 dB
5: -66.501 dB 459.500 000 MHz
5: -.34600 dB



CH1 Markers
1:-1.4875 dB
450.000 MHz
2:-1.5609 dB
454.000 MHz
3:-100.72 dB
465.000 MHz
4:-104.59 dB
470.000 MHz

CH2 Markers
1:-17.965 dB
450.000 MHz
2:-18.839 dB
454.000 MHz
3:-21.571 dB
465.000 MHz
4:-29.779 dB
470.000 MHz

9 Jun 2008 06:15:09
CH1 S21 LOG 1 dB/REF 0 dB
CH2 S11 LOG 10 dB/REF -17 dB
5: -1.4111 dB 452.000 000 MHz
5: -18.833 dB

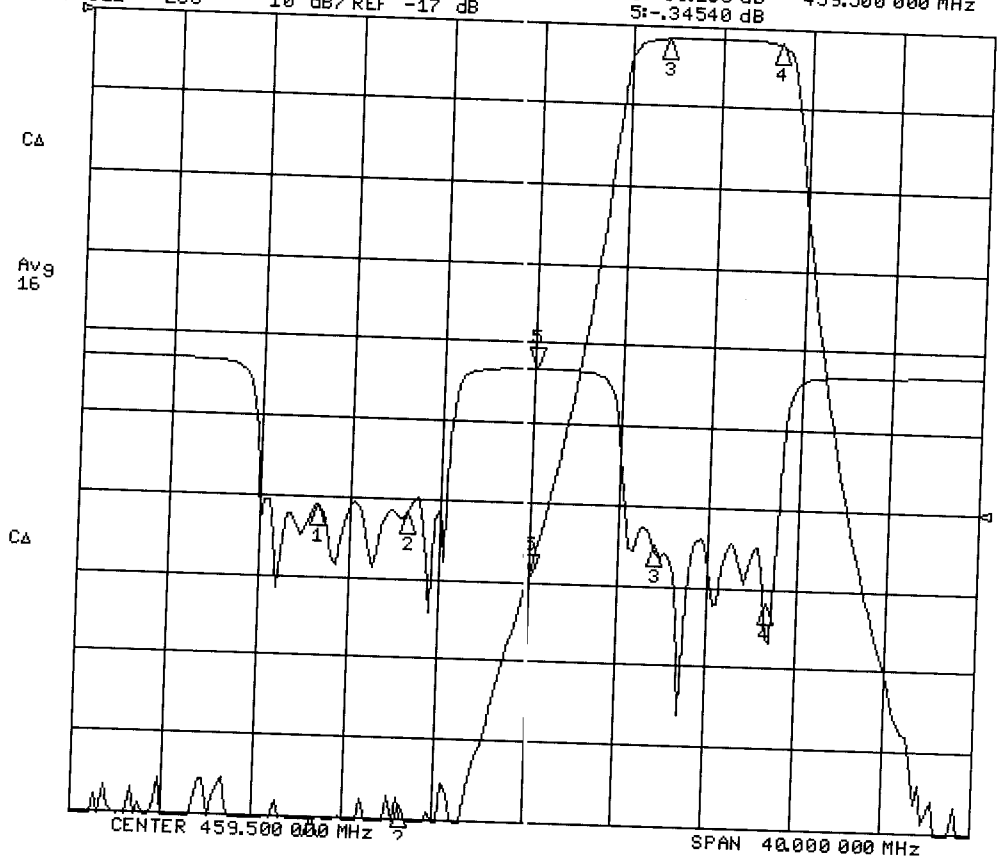


CH1 Markers
1:-1.4893 dB
450.000 MHz
2:-1.5594 dB
454.000 MHz
3:-104.99 dB
465.000 MHz
4:-111.97 dB
470.000 MHz

CH2 Markers
1:-17.871 dB
450.000 MHz
2:-18.905 dB
454.000 MHz
3:-21.615 dB
465.000 MHz
4:-29.715 dB
470.000 MHz

+80°C

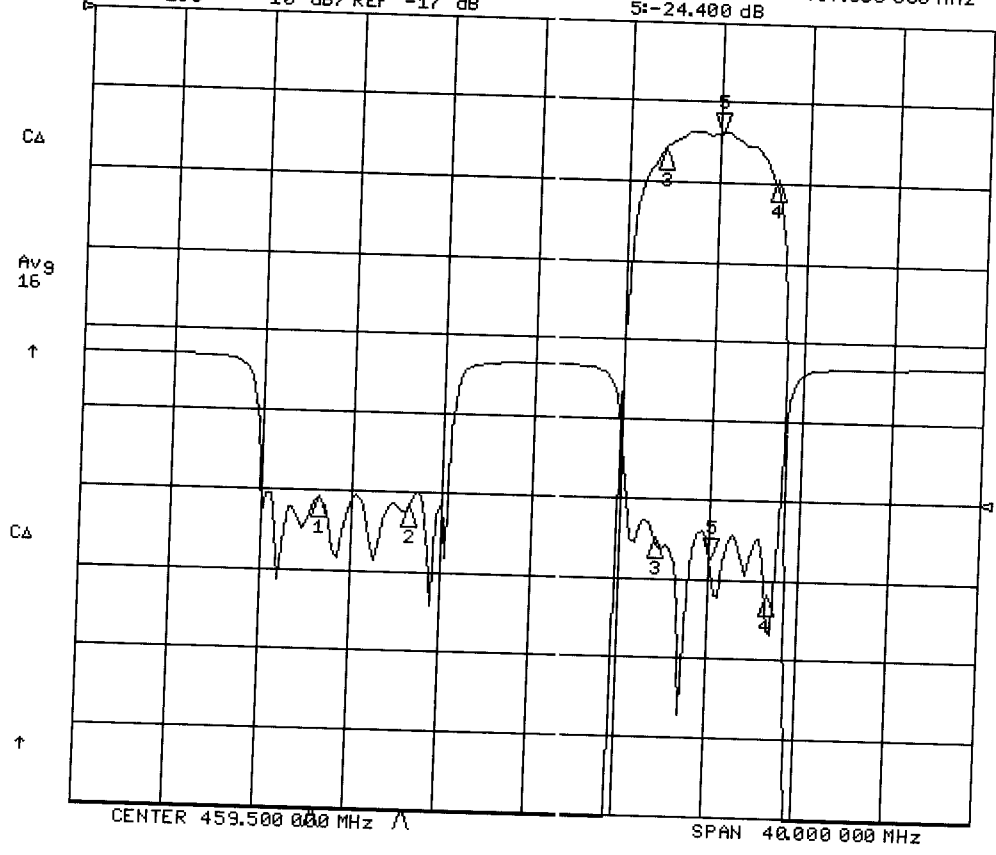
9 Jun 2008 06:15:35
CH1 S21 LOG 10 dB/REF 0 dB 5:-69.150 dB 459.500 000 MHz
CH2 S11 LOG 10 dB/REF -17 dB 5:-.34540 dB



CH1 Markers
1:-102.80 dB
450.000 MHz
2:-98.717 dB
454.000 MHz
3:-1.6096 dB
465.000 MHz
4:-1.9875 dB
470.000 MHz

CH2 Markers
1:-18.053 dB
450.000 MHz
2:-18.899 dB
454.000 MHz
3:-22.008 dB
465.000 MHz
4:-29.069 dB
470.000 MHz

9 Jun 2008 06:15:48
CH1 S21 LOG 1 dB/REF 0 dB 5:-1.3913 dB 467.500 000 MHz
CH2 S11 LOG 10 dB/REF -17 dB 5:-24.400 dB

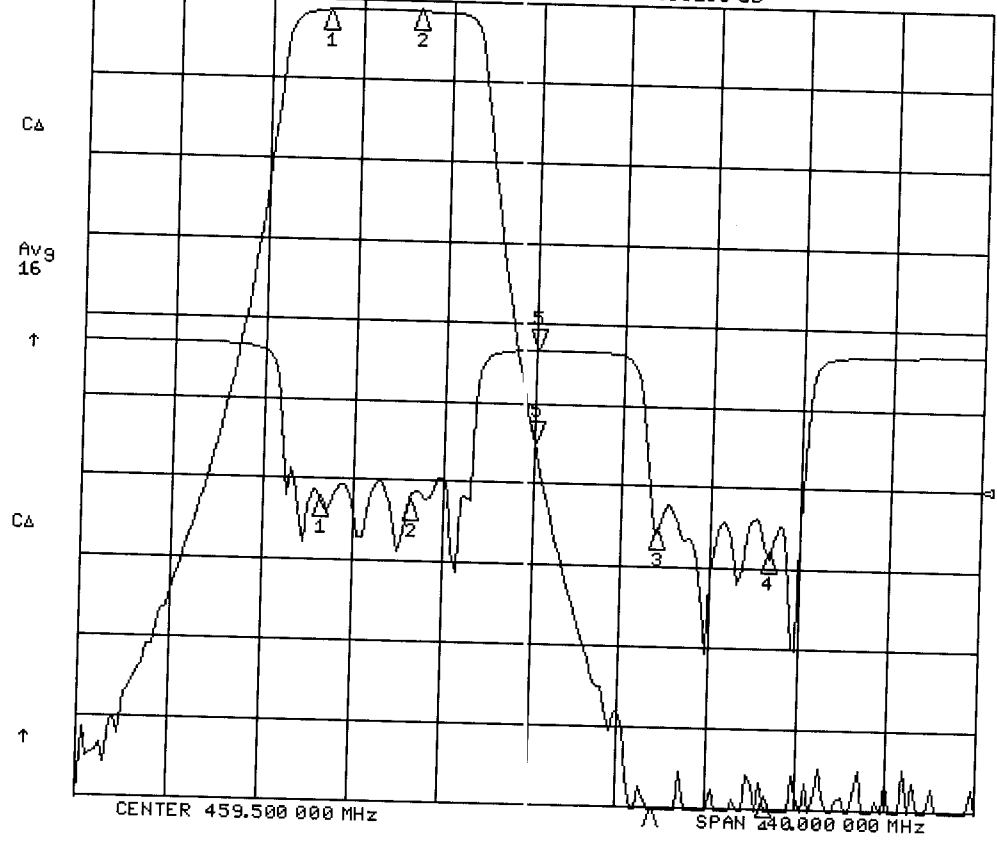


CH1 Markers
1:-107.76 dB
450.000 MHz
2:-109.53 dB
454.000 MHz
3:-1.6103 dB
465.000 MHz
4:-1.9854 dB
470.000 MHz

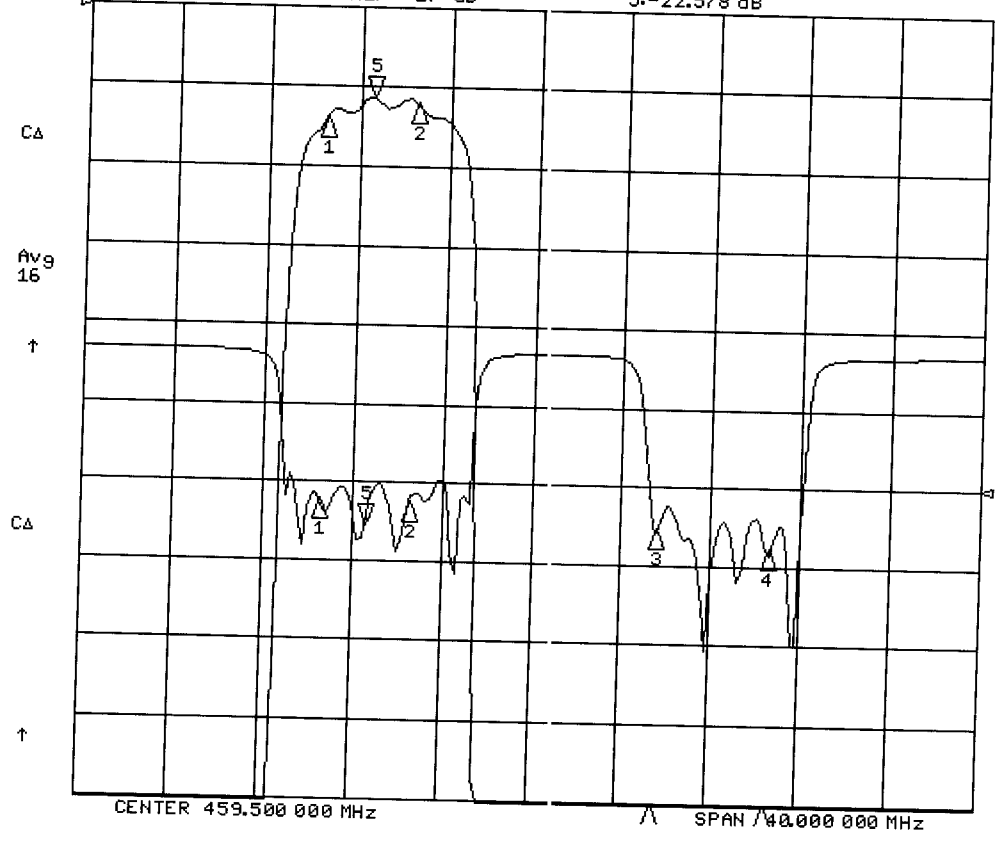
CH2 Markers
1:-18.007 dB
450.000 MHz
2:-18.964 dB
454.000 MHz
3:-22.037 dB
465.000 MHz
4:-28.957 dB
470.000 MHz

OC

9 Jun 2008 07:56:01
 CH1 S21 LOG 10 dB/REF 0 dB 5:-54.960 dB 459.500 000 MHz
 CH2 S11 LOG 10 dB/REF -17 dB 5:-35130 dB

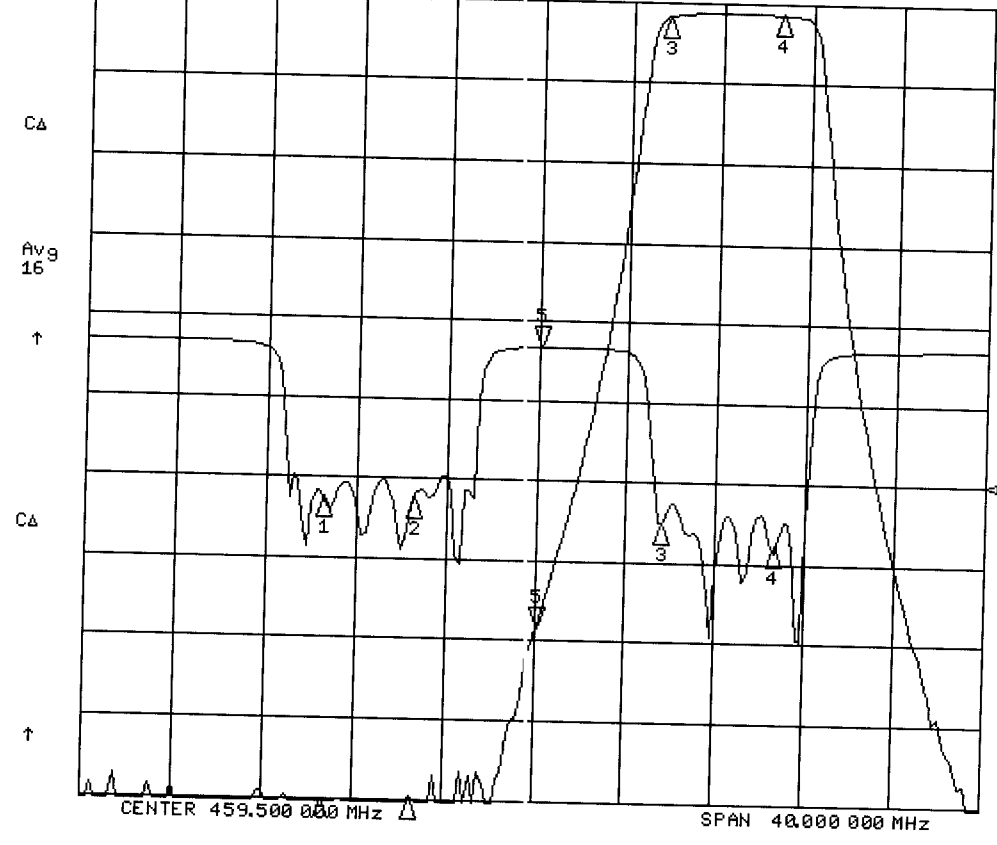


9 Jun 2008 07:56:10
 CH1 S21 LOG 1 dB/REF 0 dB 5:-1.1344 dB 452.000 000 MHz
 CH2 S11 LOG 10 dB/REF -17 dB 5:-22.578 dB



00C

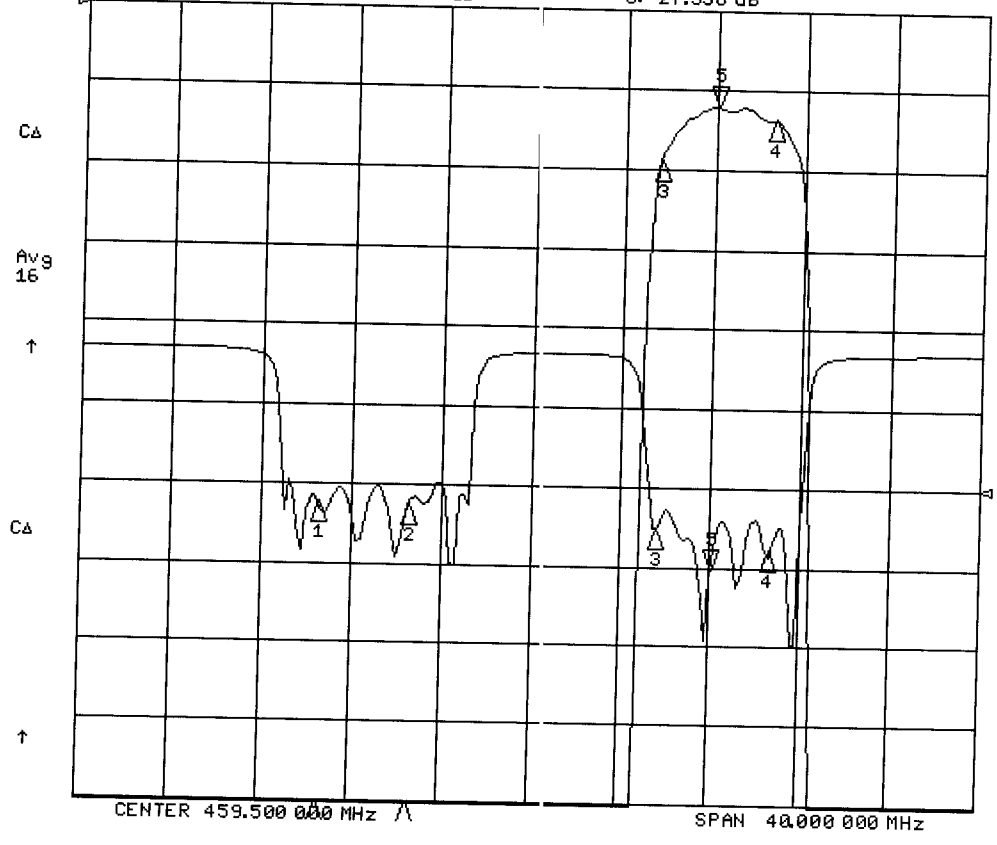
9 Jun 2008 07:56:38
CH1 S21 LOG 10 dB/REF 0 dB 5:-78.415 dB 459.500 000 MHz
CH2 S11 LOG 10 dB/REF -17 dB 5:-.35100 dB



CH1 Markers
1:-108.98 dB
450.000 MHz
2:-101.32 dB
454.000 MHz
3:-1.9045 dB
465.000 MHz
4:-1.3704 dB
470.000 MHz

CH2 Markers
1:-19.470 dB
450.000 MHz
2:-19.526 dB
454.000 MHz
3:-22.136 dB
465.000 MHz
4:-24.881 dB
470.000 MHz

9 Jun 2008 07:56:49
CH1 S21 LOG 1 dB/REF 0 dB 5:-1.2041 dB 467.500 000 MHz
CH2 S11 LOG 10 dB/REF -17 dB 5:-27.336 dB



CH1 Markers
1:-105.41 dB
450.000 MHz
2:-107.88 dB
454.000 MHz
3:-1.9006 dB
465.000 MHz
4:-1.3686 dB
470.000 MHz

CH2 Markers
1:-19.364 dB
450.000 MHz
2:-19.558 dB
454.000 MHz
3:-22.130 dB
465.000 MHz
4:-24.836 dB
470.000 MHz