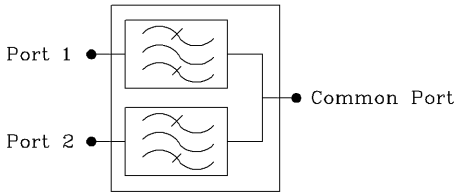
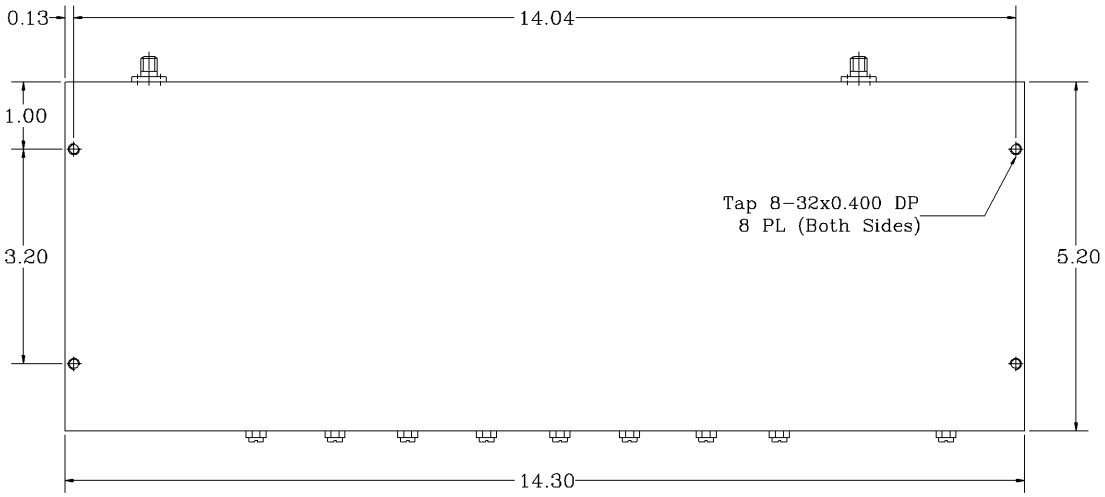
REVISIONS			
REV		DATE	APPROVED





Electrical Specifications

*1dB Low Pass Band Frequency Range [MHz] : 410.06 to 413.6
*1dB High Pass Band Frequency Range [MHz] : 415.06 to 418.6
*Pass Band Insertion Loss [dB] : < 2.0
*Pass Band Ripple [dB] : < 0.5 P-T-P
*Low Attenuation DC to 400 MHz [dB] : 50 (Min.), 60 (Typ.)
@ 414.3 MHz [dB] : 30 (Min.), 35 (Typ.)
@ 415 to 419 MHz [dB] : 55 (Min.), 60 (Typ.)

*High Attenuation DC to 413.6 MHz [dB] : 55 (Min.), 60 (Typ.)
@ 414.3 MHz [dB] : 30 (Min.), 35 (Typ.)
@ 430 to 900 MHz [dB] : 40 (Min.), 55 (Typ.)
*Pass Band Return Loss [dB] : -17 (Max.), <1.33:1
*Input/Output Impedance : 50 ohm
*RF Power Capability CW : 10 Watts
*Input/Output @ DC Ground Potential

OPERATING TEMPERATURE RANGE: -20°C TO +55°C

NOTES:

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

DIMENSIONS ARE IN INCHES. TOLERANCES ARE: ANGLES ± 1° DECIMALS .X ± .05 .XX ± .01 .XXX ± .003	CONTRACT NO:	
	APPROVALS	DATE
	DRAWN Segal	11/06
TREATMENT	CHECKED	
FINISH 63	ENG.	
	DESIGN ACTIVITY	
MATERIAL AL6061-T6		

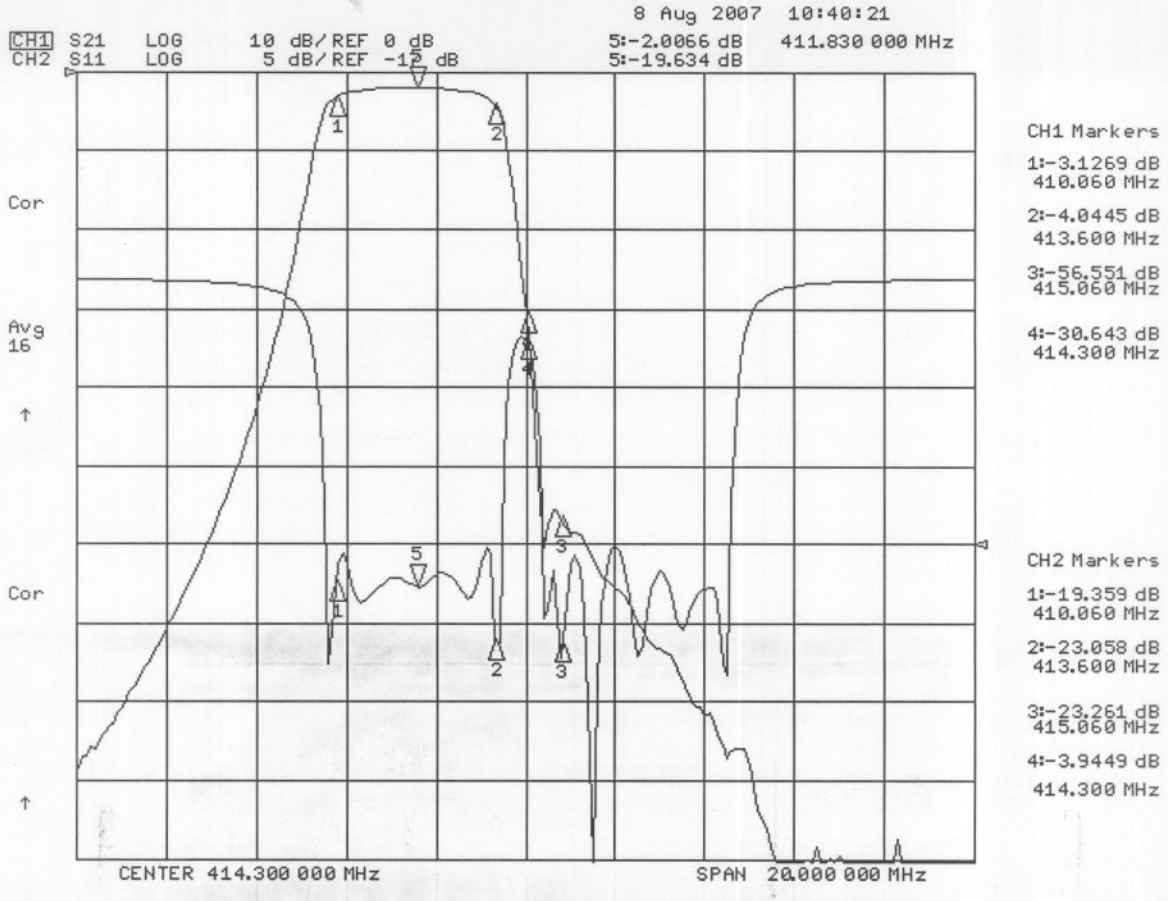
G-Way Microwave

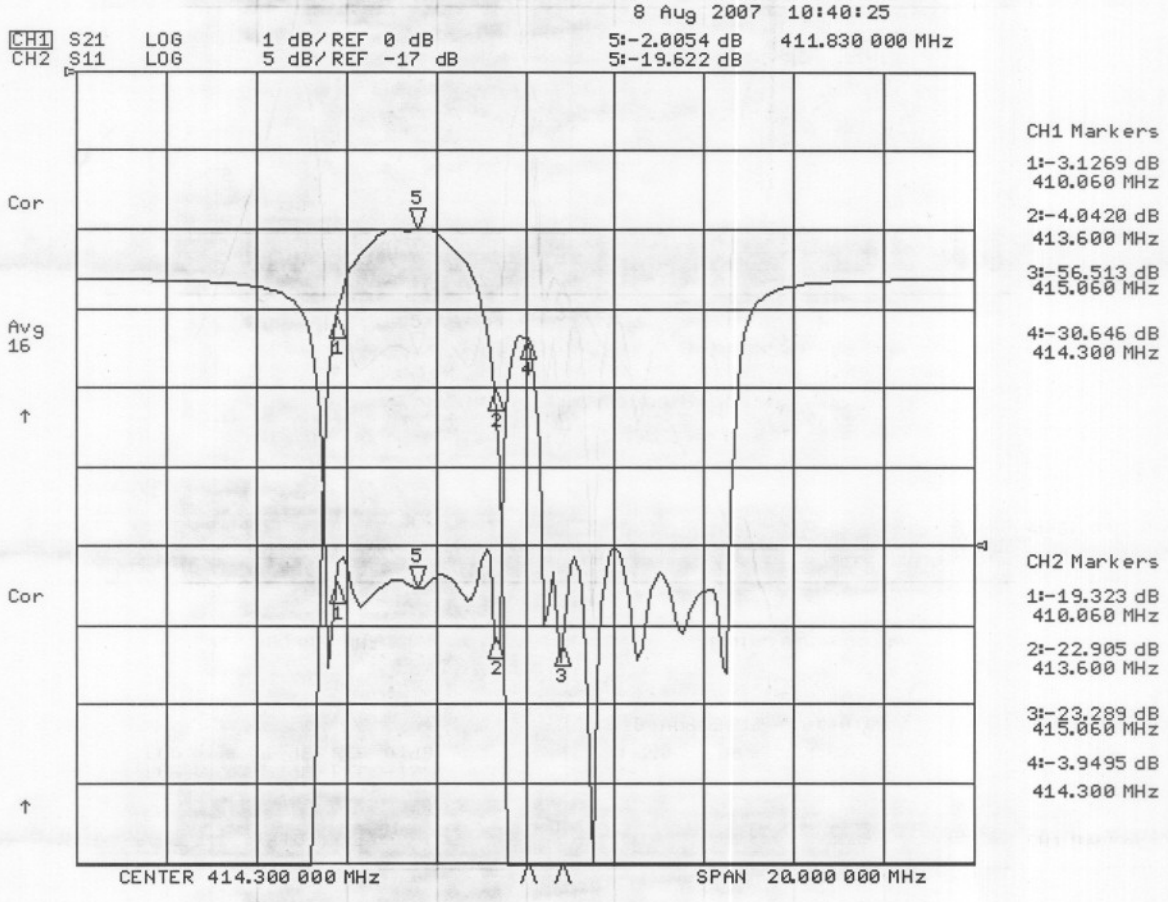
TITLE High "Q" Diplexer UHF
CD414/3MK-F1

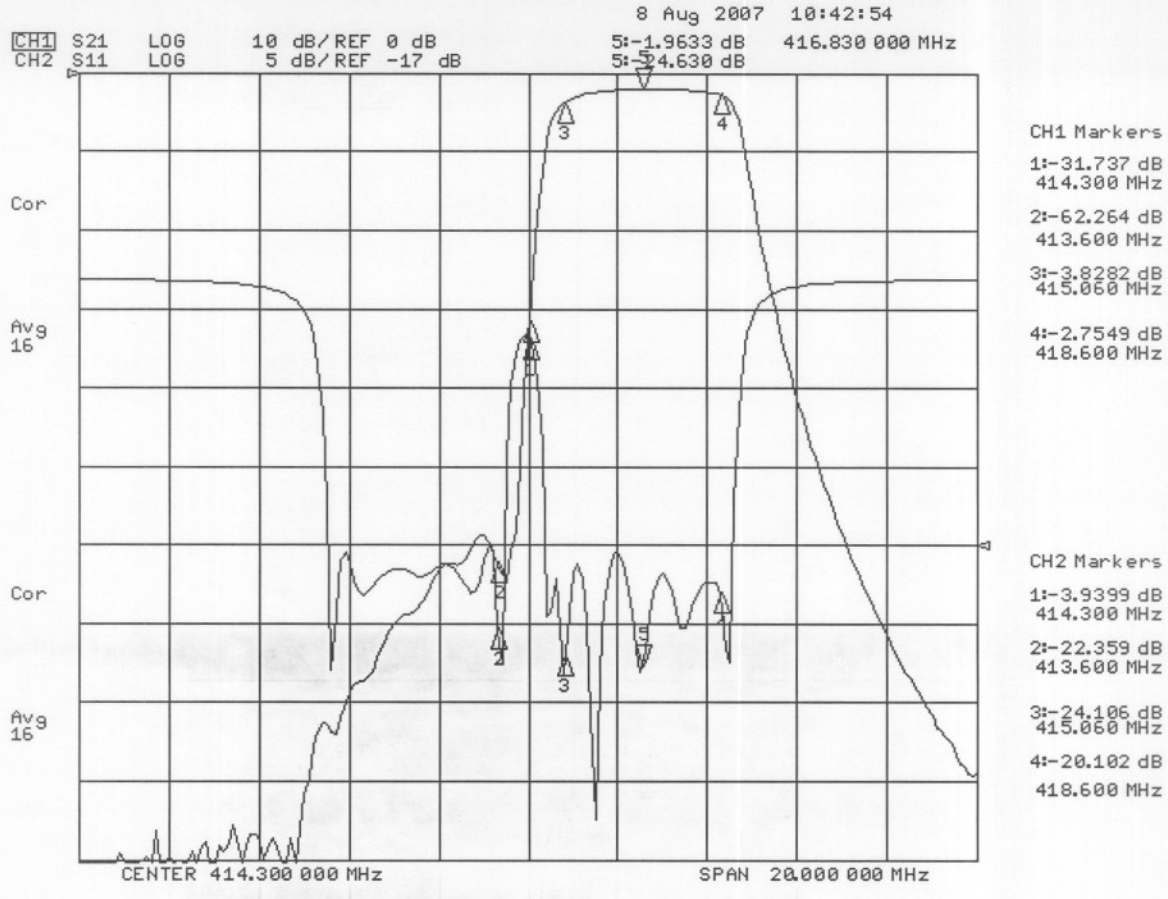
SIZE	CAGE CODE	DWG NO:	REV.
A	3K1H4	CD414/3MK-F1-1	0

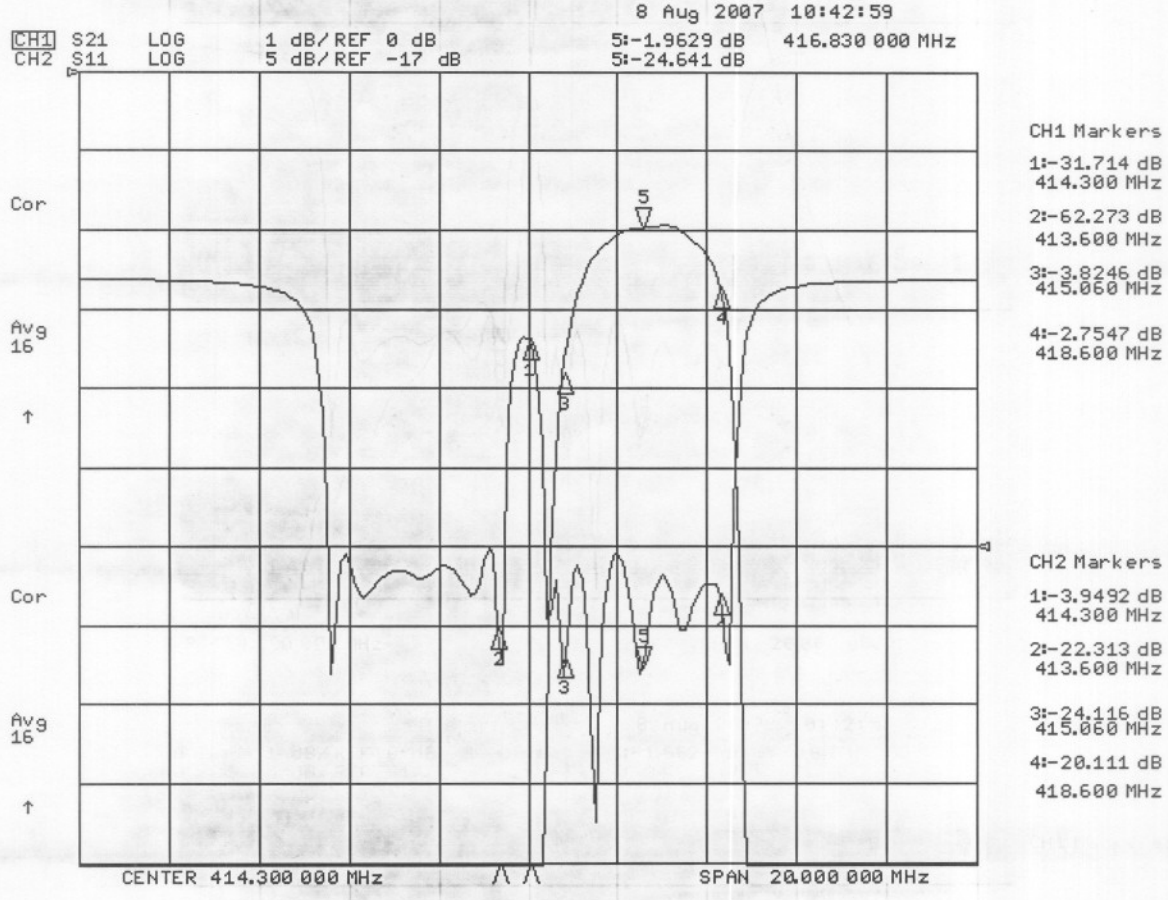
SCALE None SHEET 1 OF 1

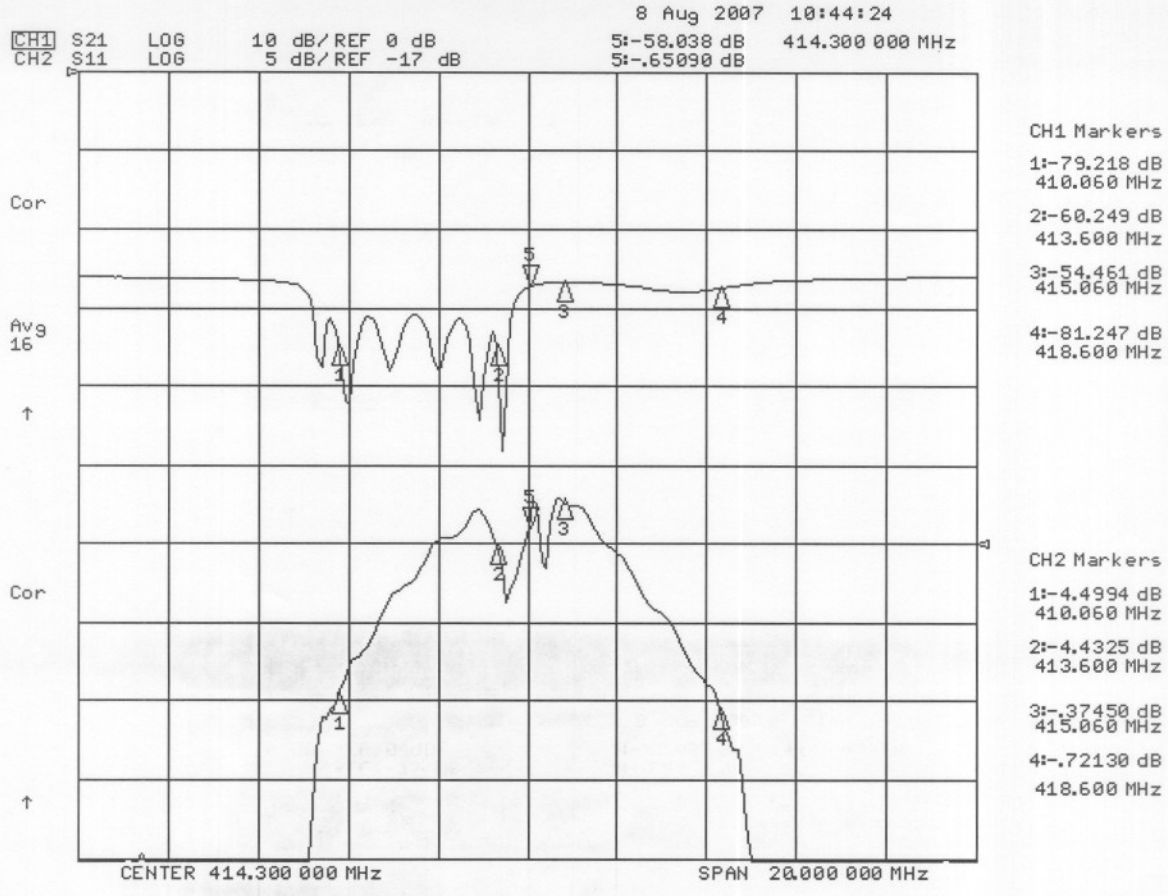
CD414/3MK-F1

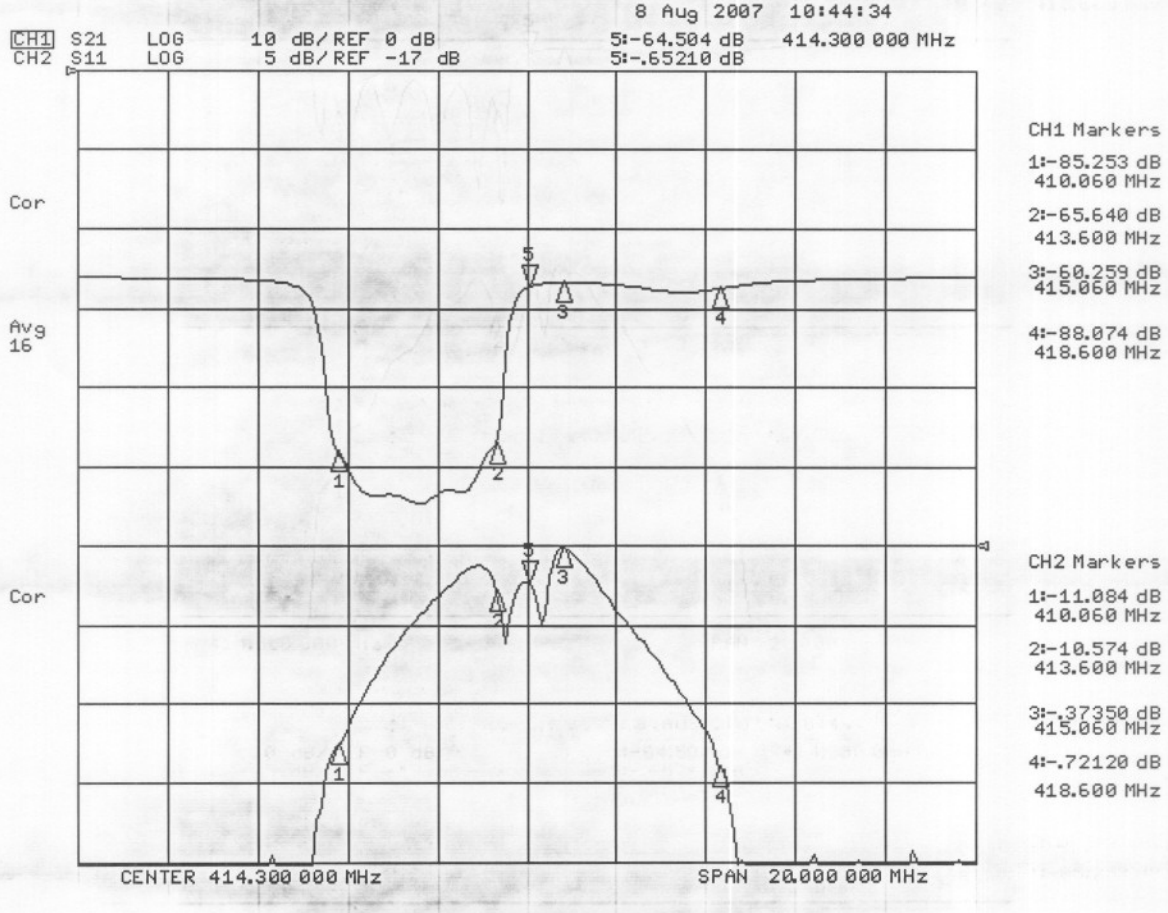

8 Aug 2007 10:40:21
CH1 S21 LOG 10 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -15 dB
5:-2.0066 dB 411.830 000 MHz
5:-19.634 dB
Cor
Avg 16
Cor
CH1 Markers
1:-3.1269 dB 410.060 MHz
2:-4.0445 dB 413.600 MHz
3:-56.551 dB 415.060 MHz
4:-30.643 dB 414.300 MHz
CH2 Markers
1:-19.359 dB 410.060 MHz
2:-23.058 dB 413.600 MHz
3:-23.261 dB 415.060 MHz
4:-3.9449 dB 414.300 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz


8 Aug 2007 10:40:25
CH1 S21 LOG 1 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -17 dB
5:-2.0054 dB 411.830 000 MHz
5:-19.622 dB
Cor
Avg 16
Cor
CH1 Markers
1:-3.1269 dB 410.060 MHz
2:-4.0420 dB 413.600 MHz
3:-56.513 dB 415.060 MHz
4:-30.646 dB 414.300 MHz
CH2 Markers
1:-19.323 dB 410.060 MHz
2:-22.905 dB 413.600 MHz
3:-23.289 dB 415.060 MHz
4:-3.9495 dB 414.300 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz


8 Aug 2007 10:42:54
CH1 S21 LOG 10 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -17 dB
5:-1.9633 dB 416.830 000 MHz
5:-24.630 dB
Cor
Avg 16
Cor
Avg 16
CH1 Markers
1:-31.737 dB 414.300 MHz
2:-62.264 dB 413.600 MHz
3:-3.8282 dB 415.060 MHz
4:-2.7549 dB 418.600 MHz
CH2 Markers
1:-3.9399 dB 414.300 MHz
2:-22.359 dB 413.600 MHz
3:-24.106 dB 415.060 MHz
4:-20.102 dB 418.600 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz


8 Aug 2007 10:42:59
CH1 S21 LOG 1 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -17 dB
5:-1.9629 dB 416.830 000 MHz
5:-24.641 dB
Cor
Avg 16
Cor
Avg 16
CH1 Markers
1:-31.714 dB 414.300 MHz
2:-62.273 dB 413.600 MHz
3:-3.8246 dB 415.060 MHz
4:-2.7547 dB 418.600 MHz
CH2 Markers
1:-3.9492 dB 414.300 MHz
2:-22.313 dB 413.600 MHz
3:-24.116 dB 415.060 MHz
4:-20.111 dB 418.600 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz


8 Aug 2007 10:44:24
CH1 S21 LOG 10 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -17 dB
5:-58.038 dB 414.300 000 MHz
5:-.65090 dB
Cor
Avg 16
Cor
CH1 Markers
1:-79.218 dB 410.060 MHz
2:-60.249 dB 413.600 MHz
3:-54.461 dB 415.060 MHz
4:-81.247 dB 418.600 MHz
CH2 Markers
1:-4.4994 dB 410.060 MHz
2:-4.4325 dB 413.600 MHz
3:-.37450 dB 415.060 MHz
4:-.72130 dB 418.600 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz


8 Aug 2007 10:44:34
CH1 S21 LOG 10 dB/ REF 0 dB
CH2 S11 LOG 5 dB/ REF -17 dB
5:-64.504 dB 414.300 000 MHz
5:-.65210 dB
Cor
Avg 16
Cor
CH1 Markers
1:-85.253 dB 410.060 MHz
2:-65.640 dB 413.600 MHz
3:-60.259 dB 415.060 MHz
4:-88.074 dB 418.600 MHz
CH2 Markers
1:-11.084 dB 410.060 MHz
2:-10.574 dB 413.600 MHz
3:-.37350 dB 415.060 MHz
4:-.72120 dB 418.600 MHz
CENTER 414.300 000 MHz
SPAN 20.000 000 MHz