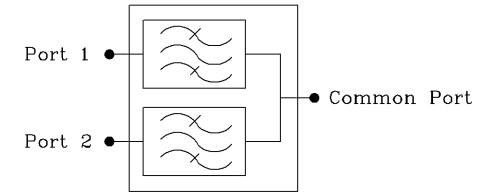
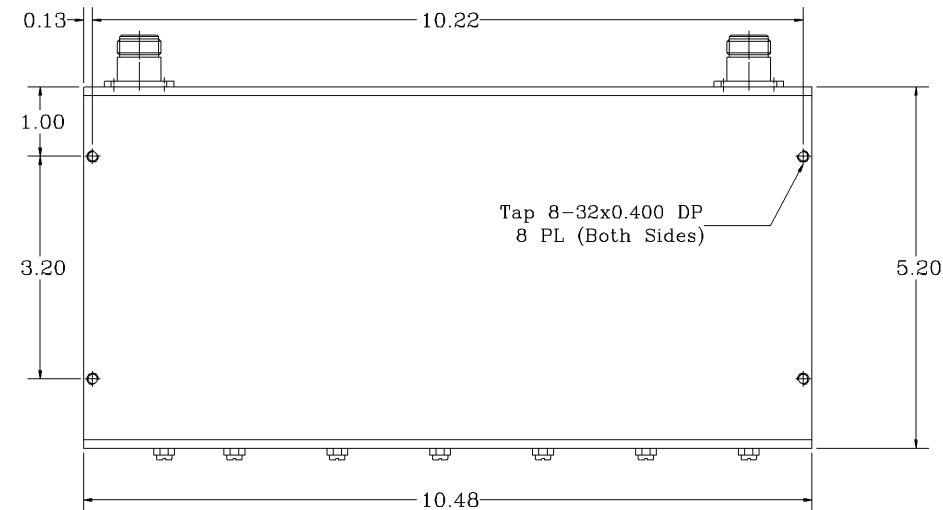
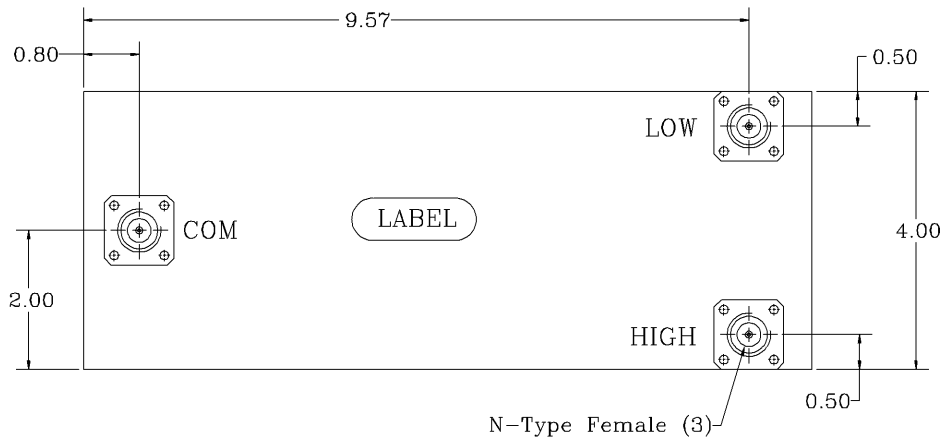


REVISIONS			
REV		DATE	APPROVED



Electrical Specifications

- *TX 1dB Low Pass Band Frequency Range [MHz] : 406 to 411
- *RX 1dB High Pass Band Frequency Range [MHz] : 415 to 420
- *Insertion Loss @ Fo [dB] : <1.5, 1.3 (Typ.)
- *Pass Band Ripple [dB] : < 0.5 P-T-P
- *Low (TX) Attenuation @ 413 MHz [dB] : 25 (Min.), 27 (Typ.)
- @ 415 to 420 MHz [dB] : 55 (Min.)
- *High (RX) Attenuation @ 413 MHz [dB] : 30 (Min.)
- @ 406 to 411 MHz [dB] : 55 (Min.)
- *Pass Band Return Loss [dB] : -17 (Max.), <1.33:1
- *Input/Output Impedance : 50 ohm
- *RF Power Capability CW : 50 Watts
- *Input/Output @ DC Ground Potential

OPERATING TEMPERATURE RANGE: -20°C TO +80°C

UNIT MEETS AND EXCEEDS SAE J1211 STANDARDS

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.

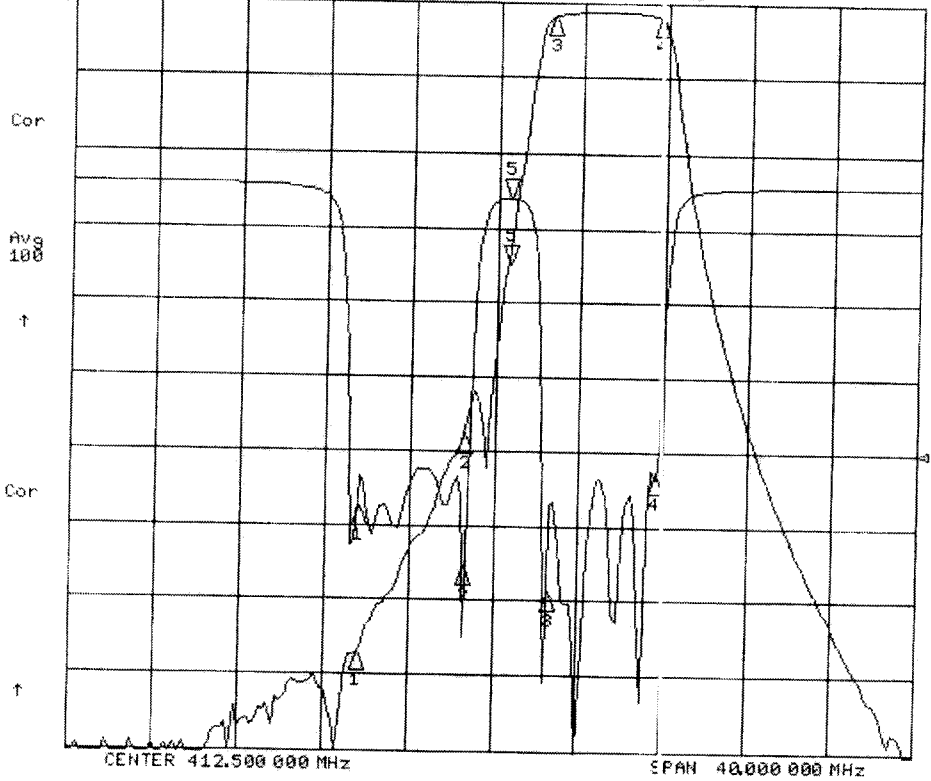
NOTES:

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

DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO:		G-Way Microwave	
ANGLES	DECIMALS	APPROVALS	DATE		
± 1°	X ± .05 XX ± .01 XXX ± .003	DRAWN	06/08	High Q Diplexer UHF	REV. 0
TREATMENT	CHECKED	Segal		CD413/5MK-F5	
FINISH	63/	ENG.		SIZE	CAGE CODE
		DESIGN ACTIVITY		A	3K1H4
MATERIAL	AL6061-76			DWG NO:	CD413/5MK-F5-1
				SCALE	None
					SHEET 1 OF 1

CD 413/SANK-R5

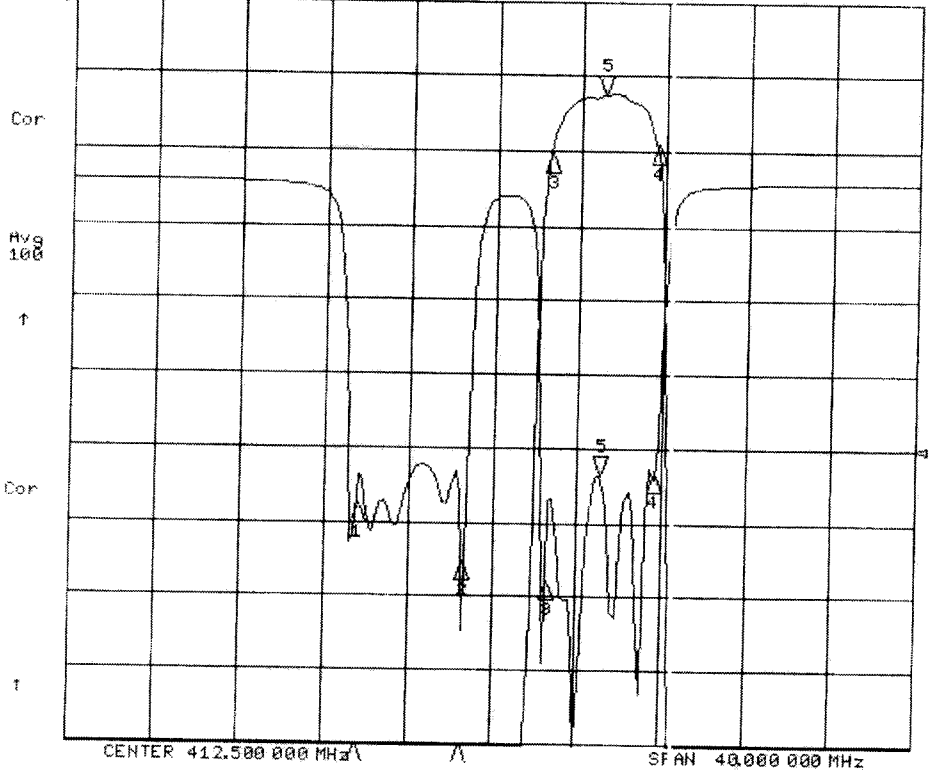
13 Jun 2008 07:44:43
 CH1 S21 LOG 10 dB/REF 0 dB S:-34.935 dB 413.000 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB S:-.97450 dB



- CH1 Markers
- 1:-87.104 dB
406.000 MHz
 - 2:-57.660 dB
411.000 MHz
 - 3:-2.0410 dB
415.000 MHz
 - 4:-1.9214 dB
420.000 MHz

- CH2 Markers
- 1:-21.308 dB
406.000 MHz
 - 2:-25.796 dB
411.000 MHz
 - 3:-27.535 dB
415.000 MHz
 - 4:-19.498 dB
420.000 MHz

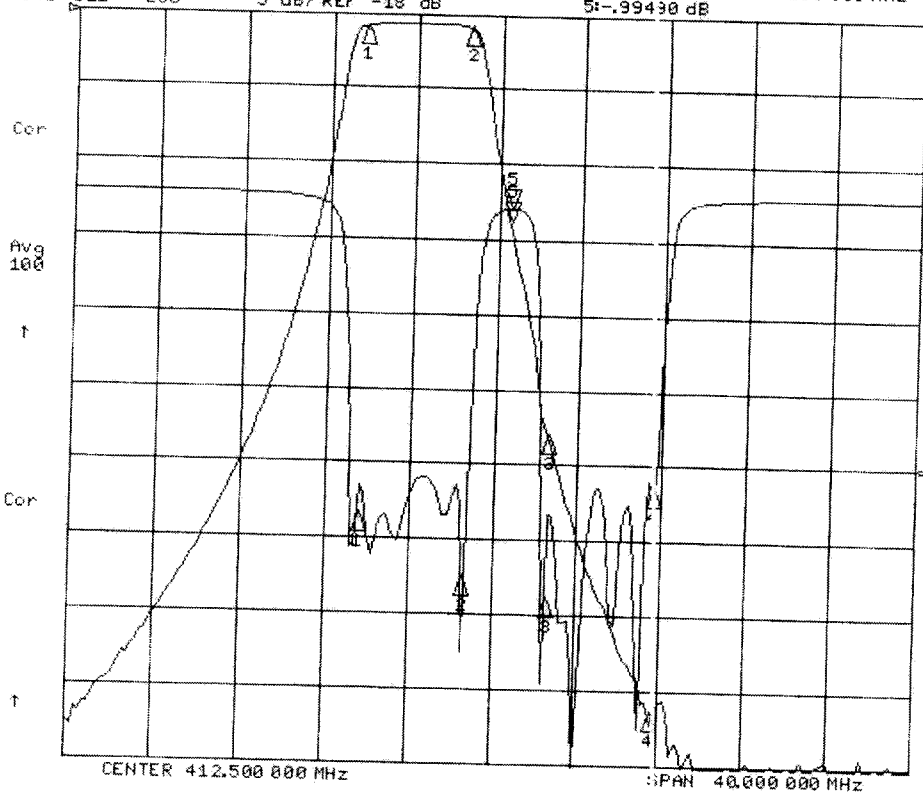
13 Jun 2008 07:44:54
 CH1 S21 LOG 1 dB/REF 0 dB S:-1.2647 dB 417.500 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB S:-19.745 dB



- CH1 Markers
- 1:-86.964 dB
406.000 MHz
 - 2:-57.654 dB
411.000 MHz
 - 3:-2.0405 dB
415.000 MHz
 - 4:-1.9218 dB
420.000 MHz

- CH2 Markers
- 1:-21.770 dB
406.000 MHz
 - 2:-25.728 dB
411.000 MHz
 - 3:-26.395 dB
415.000 MHz
 - 4:-19.626 dB
420.000 MHz

13 Jun 2008 07:45:41
 CH1 S21 LOG 10 dB/REF 0 dB 5:-27.630 dB 412.000 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB 5:-.99430 dB



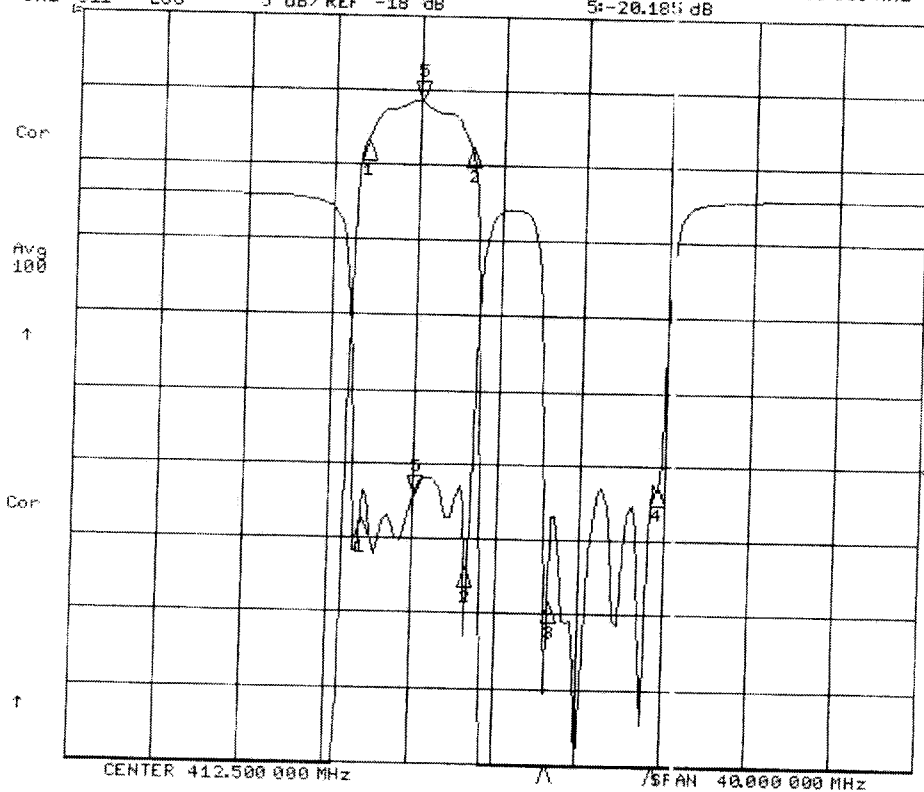
CH1 Markers

- 1:-1.6980 dB
406.000 MHz
- 2:-1.7774 dB
411.000 MHz
- 3:-56.110 dB
415.000 MHz
- 4:-93.000 dB
420.000 MHz

CH2 Markers

- 1:-21.457 dB
406.000 MHz
- 2:-25.550 dB
411.000 MHz
- 3:-26.822 dB
415.000 MHz
- 4:-19.521 dB
420.000 MHz

13 Jun 2008 07:45:54
 CH1 S21 LOG 1 dB/REF 0 dB 5:-1.1440 dB 406.500 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB 5:-20.185 dB



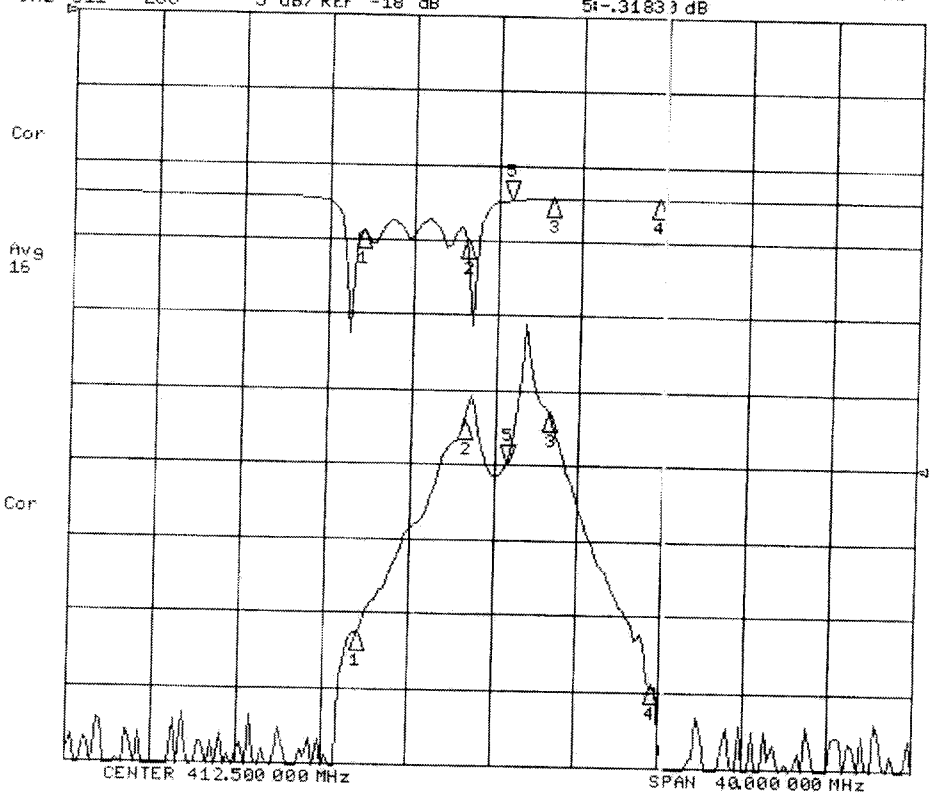
CH1 Markers

- 1:-1.6983 dB
406.000 MHz
- 2:-1.7780 dB
411.000 MHz
- 3:-56.096 dB
415.000 MHz
- 4:-92.828 dB
420.000 MHz

CH2 Markers

- 1:-21.838 dB
406.000 MHz
- 2:-25.699 dB
411.000 MHz
- 3:-27.355 dB
415.000 MHz
- 4:-19.413 dB
420.000 MHz

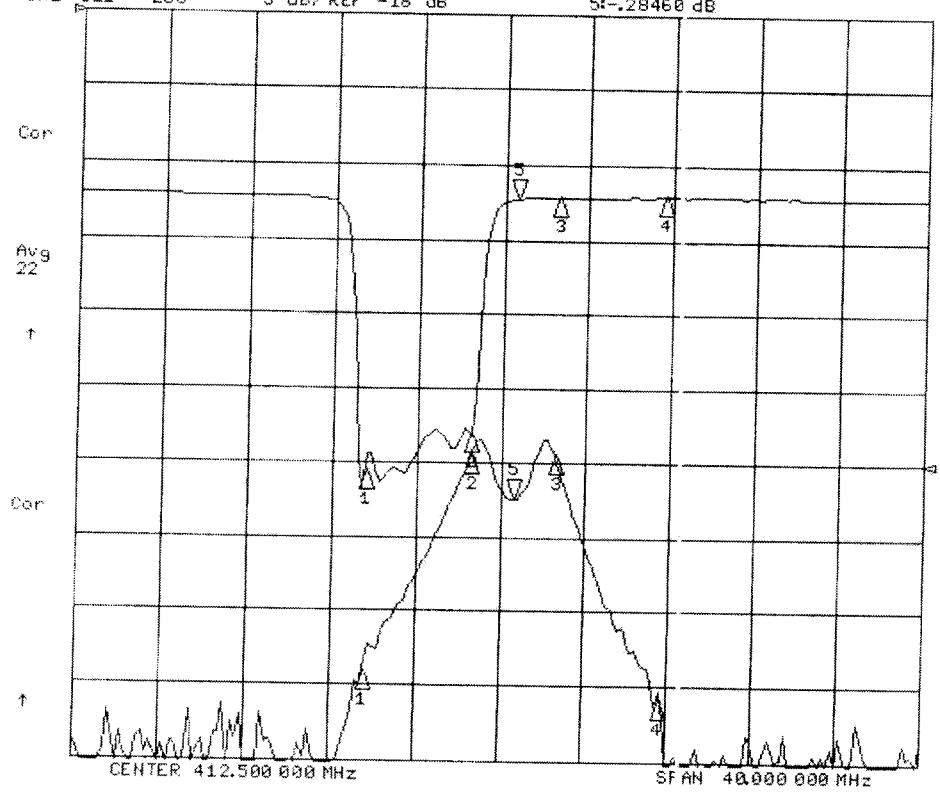
13 Jun 2008 08:09:55
 CH1 S21 LOG 10 dB/REF 0 dB 5:-60.012 dB 413.000 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB 5:-31833 dB



CH1 Markers
 1:-82.546 dB
 406.000 MHz
 2:-54.025 dB
 411.000 MHz
 3:-52.065 dB
 415.000 MHz
 4:-89.000 dB
 420.000 MHz

CH2 Markers
 1:-2.4967 dB
 406.000 MHz
 2:-3.1134 dB
 411.000 MHz
 3:-17.090 dB
 415.000 MHz
 4:-11.690 dB
 420.000 MHz

13 Jun 2008 08:10:04
 CH1 S21 LOG 10 dB/REF 0 dB 5:-64.825 dB 413.000 000 MHz
 CH2 S11 LOG 5 dB/REF -18 dB 5:-28460 dB



CH1 Markers
 1:-86.455 dB
 406.000 MHz
 2:-59.073 dB
 411.000 MHz
 3:-59.016 dB
 415.000 MHz
 4:-91.853 dB
 420.000 MHz

CH2 Markers
 1:-18.529 dB
 406.000 MHz
 2:-16.029 dB
 411.000 MHz
 3:-14.050 dB
 415.000 MHz
 4:-09530 dB
 420.000 MHz