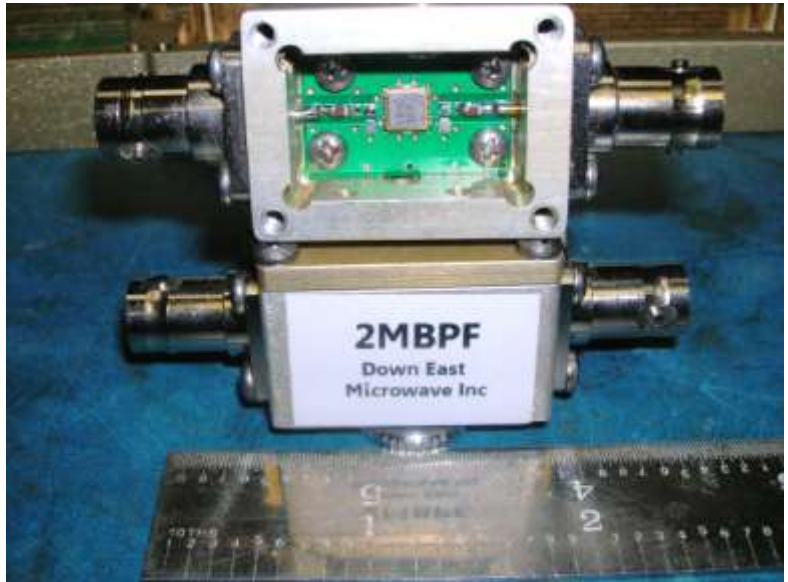


DEM XXXBPF

Low Level Band Pass Filters for Amateur Bands

After the success of utilizing SAW filters in our Transverter and LNA designs, we are introducing single band filter assemblies for RX and low level TX signals. The Saw individual filter design cover all amateur bands 2M through 13cm including separate designs for 1268,1296, 2304 and 2400 MHz. These filters will be offered as circuit board assemblies or in an enclosure with your selection of RF connectors.

The SAW circuit board assemblies' measure 1" x 0.6". The enclosures measure 1" x 1.4" not including the connectors of which BNC, SMA or type "N" may be selected. 6M and 4M BPF's are also offered but they are helical filters 2 and 3 pole designs offered on a circuit board that measures 1" x 0.7" for the 2 pole and 1.4" x 0.7" for the three pole design. These will also be offered in an enclosure with connectors as a larger size.



Performance is as expected from a SAW filter design with in band insertion losses of 2-3 dB except for the 2M version which may have as much as 5 dB loss. Average filter performance per model is listed on the next pages. Saw filters are narrow band and designed to reject out of band signals of which they do at amazing attenuation levels.

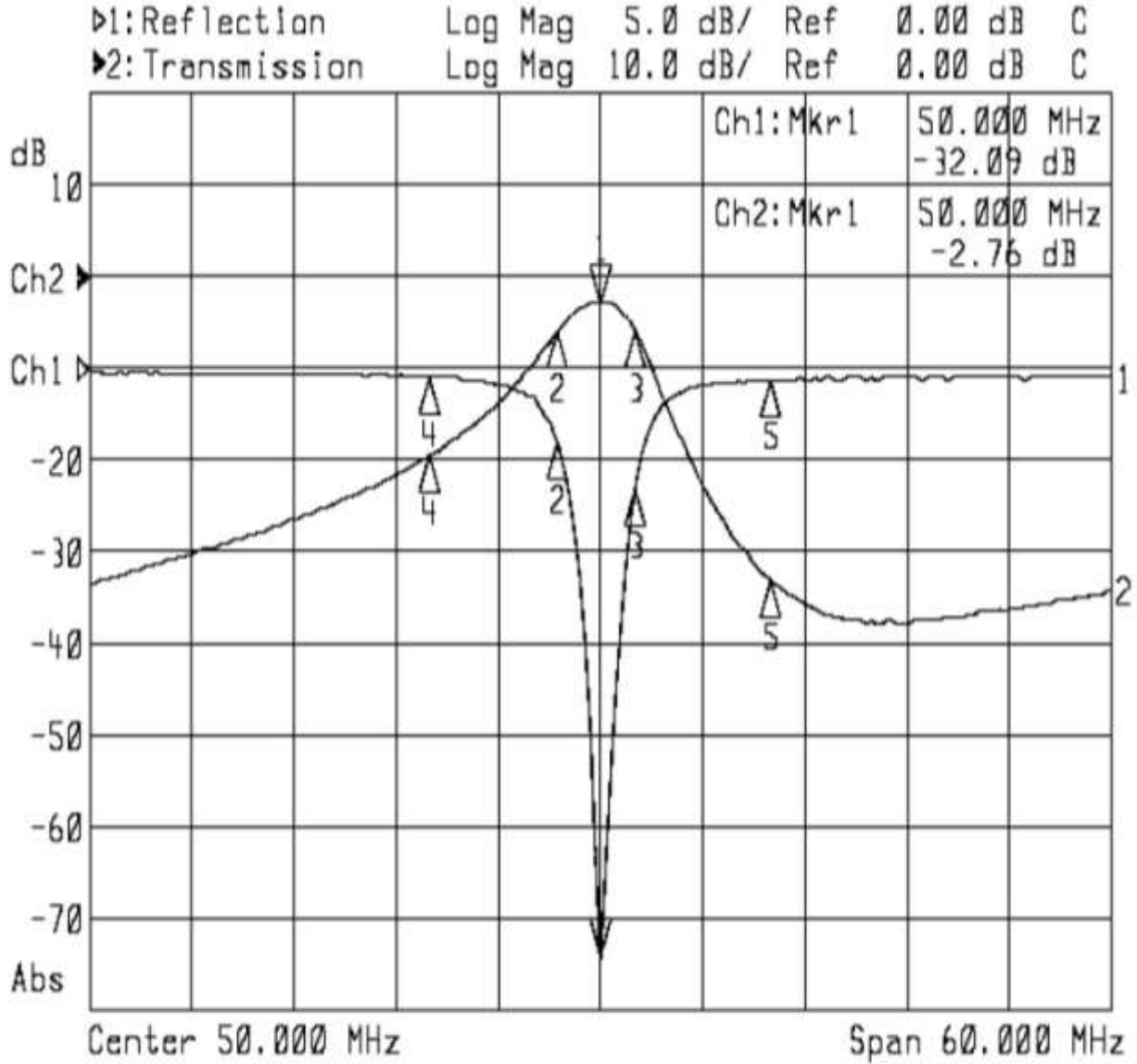
We expect this type of filter will interest all SDR users in eliminating out of band interference when utilizing wide band LNA's and eliminate low level spurious transmitted signals delivered to the input of any type of added power amplifier.

Instructions and Cautions:

Install in any 50 Ohm system utilizing proper cables and connectors.

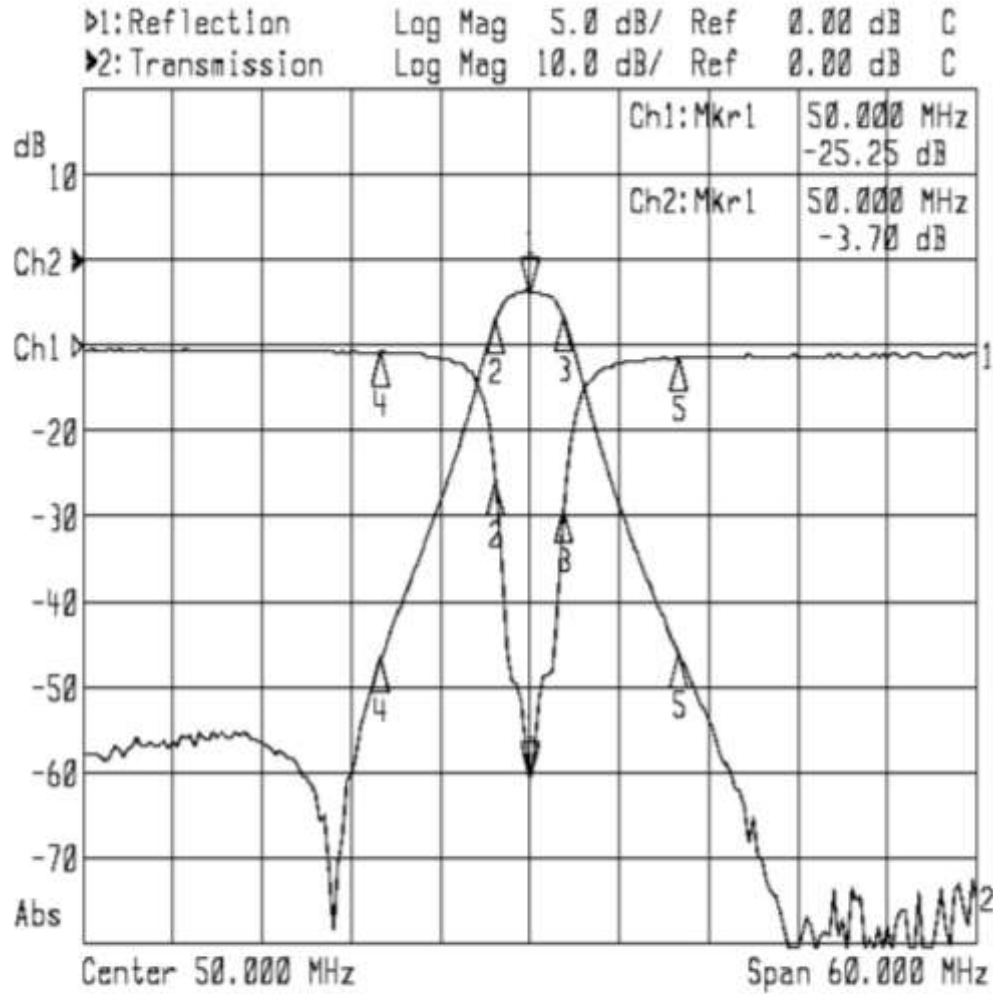
Do not exceed 20 mW of TX input power or damage to the SAW filter will occur.

The Helical type filters can withstand 2 watts of power maximum.



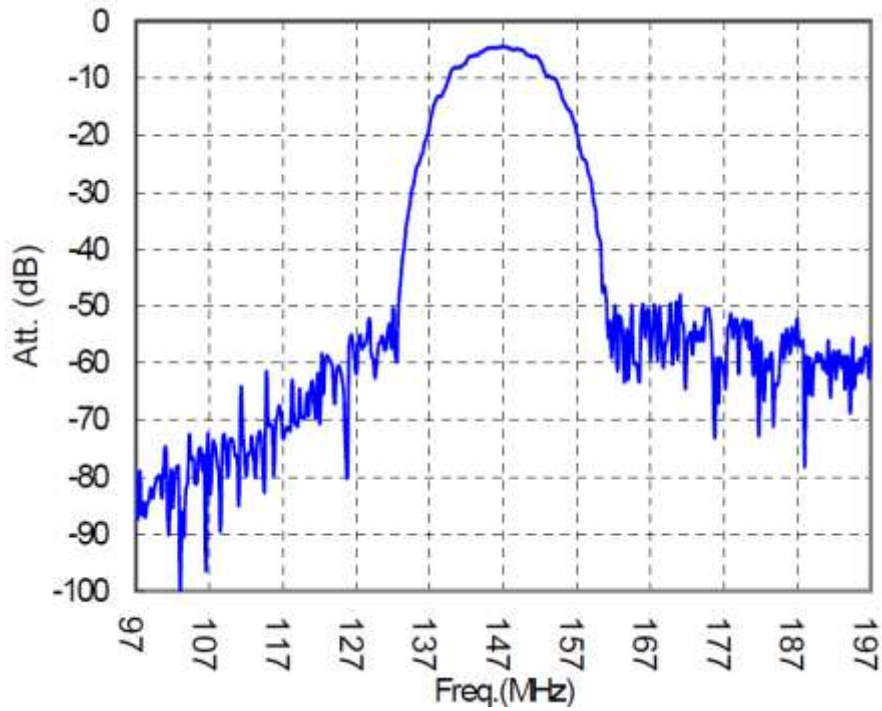
1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 50.00	-32.09	1> 50.00	-2.76
2: 47.49	-4.05	2: 47.49	-5.83
3: 52.03	-6.57	3: 52.03	-5.80
4: 40.00	-0.39	4: 40.00	-19.49
5: 60.00	-0.57	5: 60.00	-33.06

50 MHz 2-Pole Helical Filter



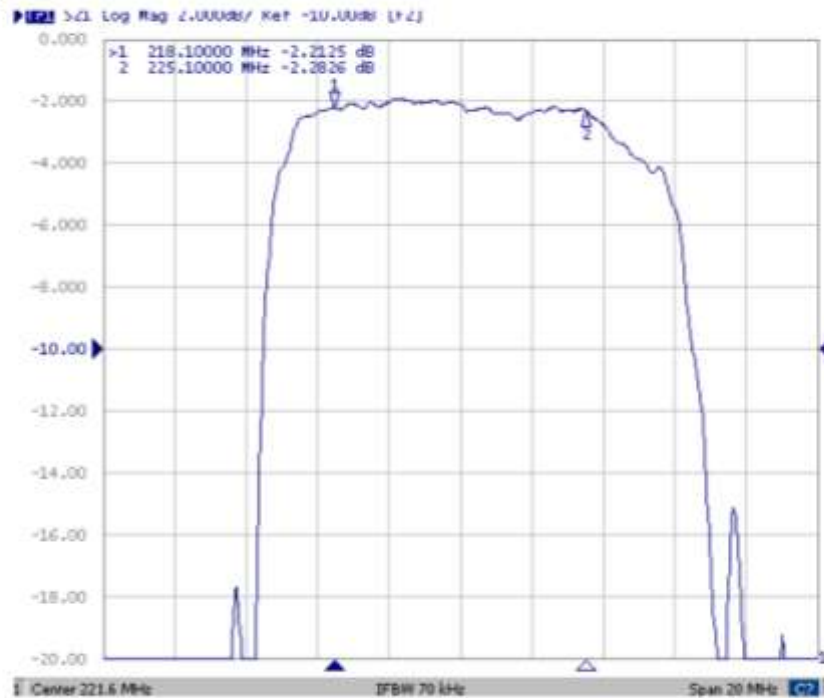
1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 50.00	-25.27	1> 50.00	-3.70
2: 47.72	-8.03	2: 47.72	-6.76
3: 52.28	-9.47	3: 52.28	-6.56
4: 40.00	-0.37	4: 40.00	-46.53
5: 60.00	-0.67	5: 60.00	-46.00

50 MHz 3-Pole Helical Filter

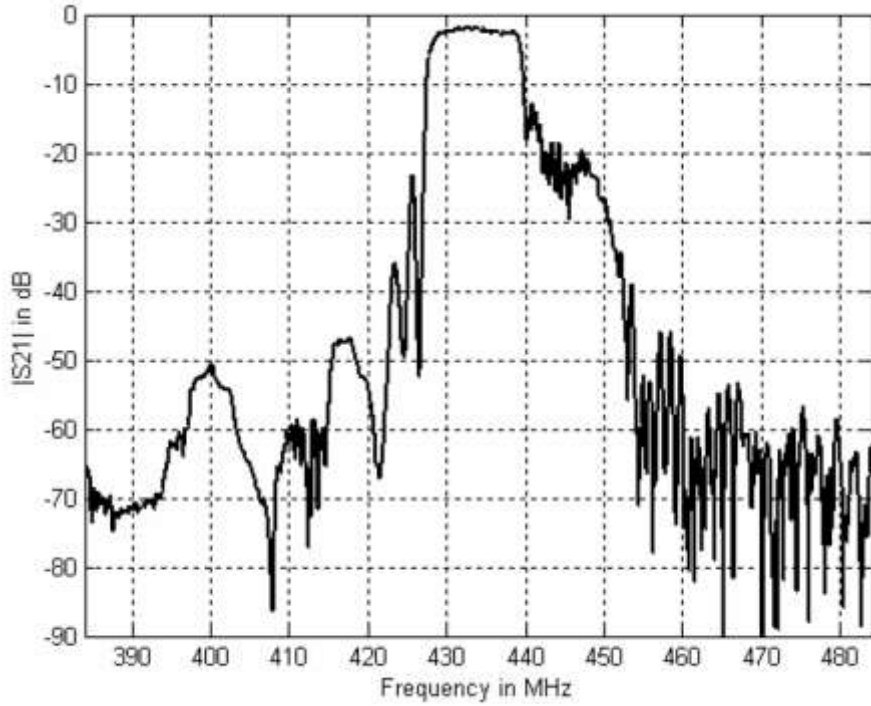


2MBPF

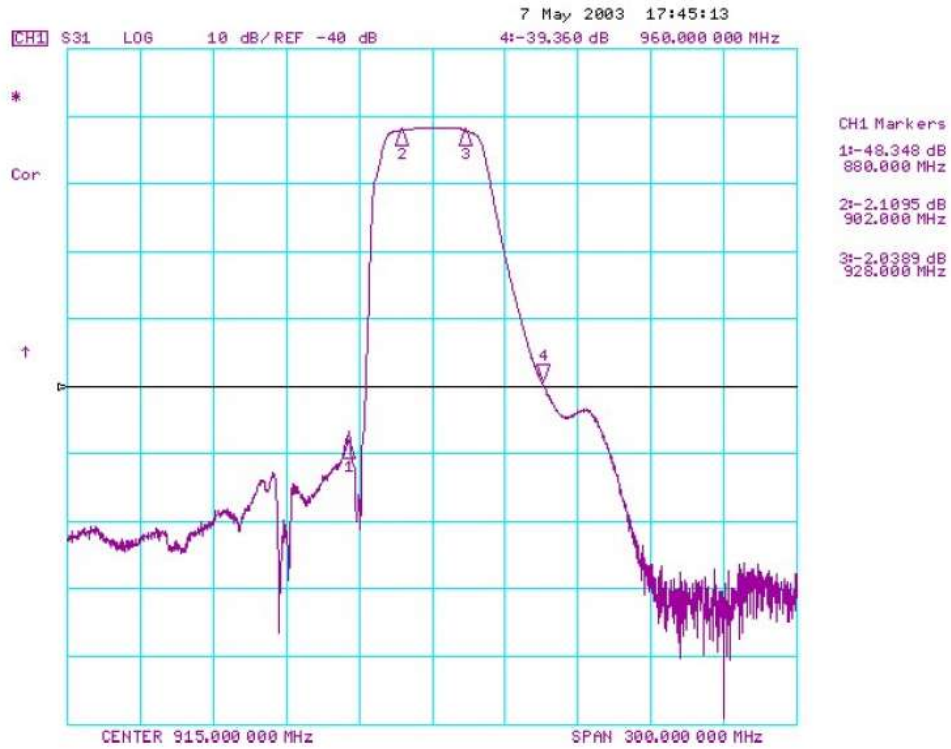
D. Frequency Characteristics :



222BPF

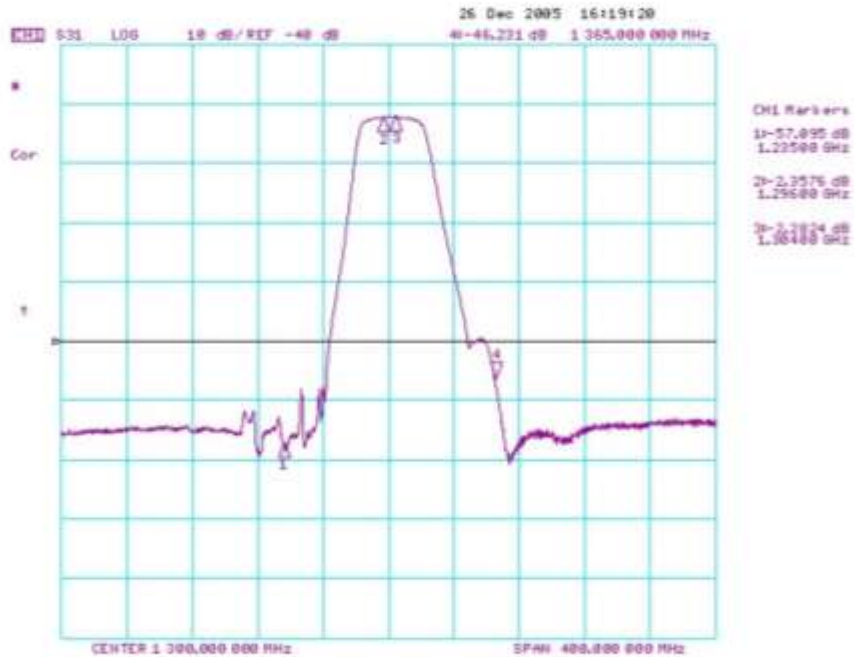


432BPF

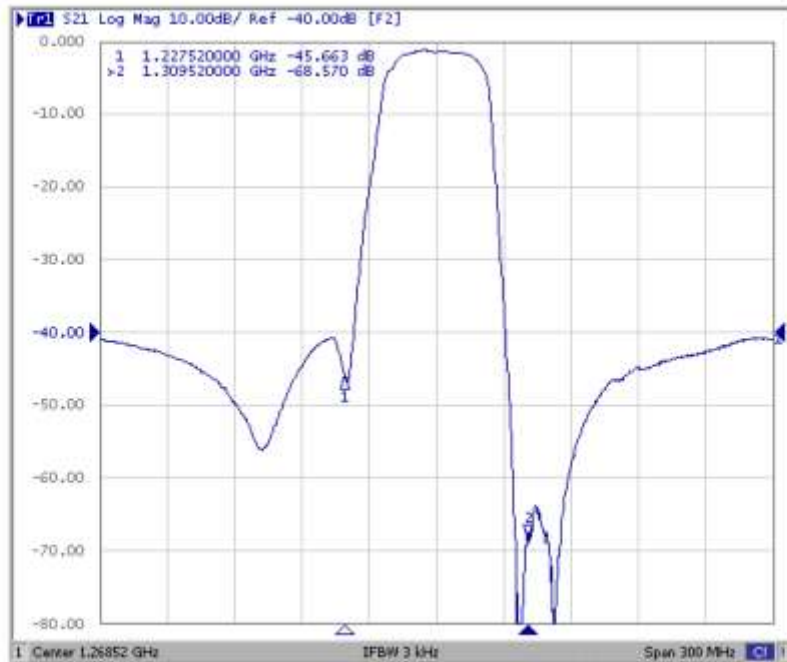


900BPF

TRANSFER FUNCTION :

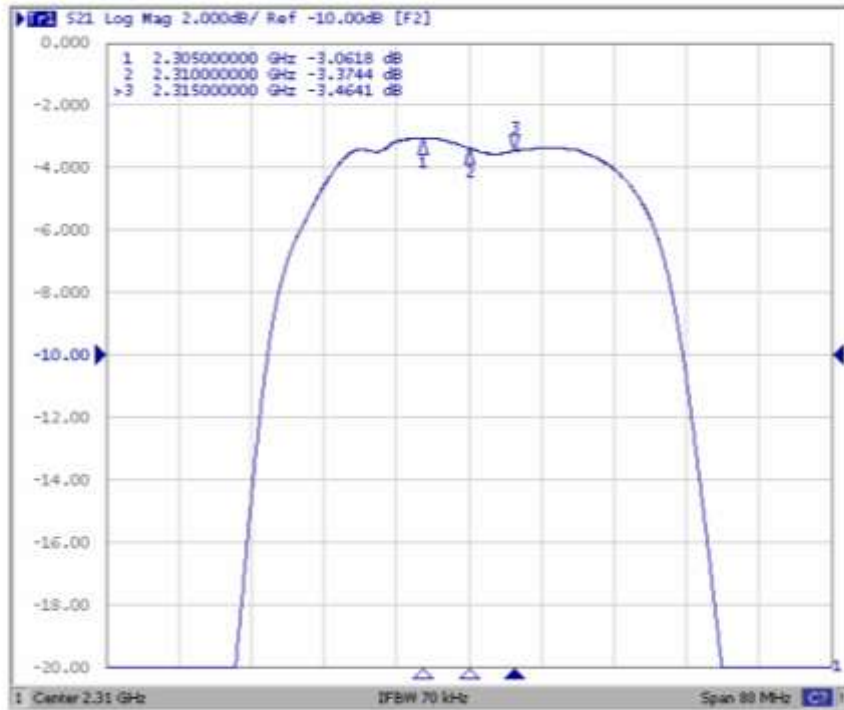


1296BPF

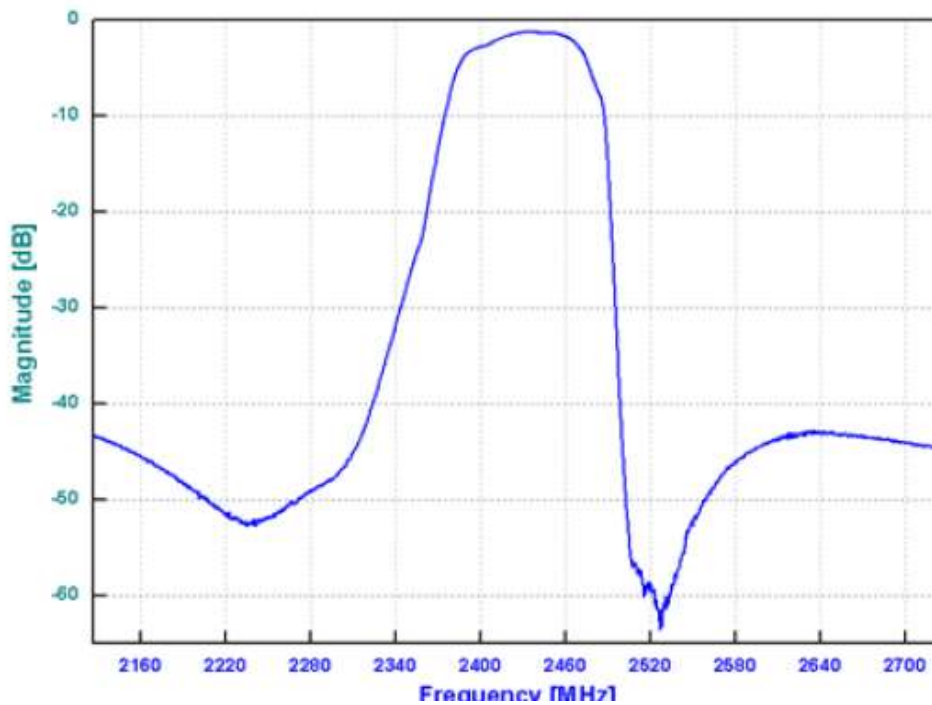


1268BPF

D. Frequency Characteristics:



2304BPF



2400BPF