

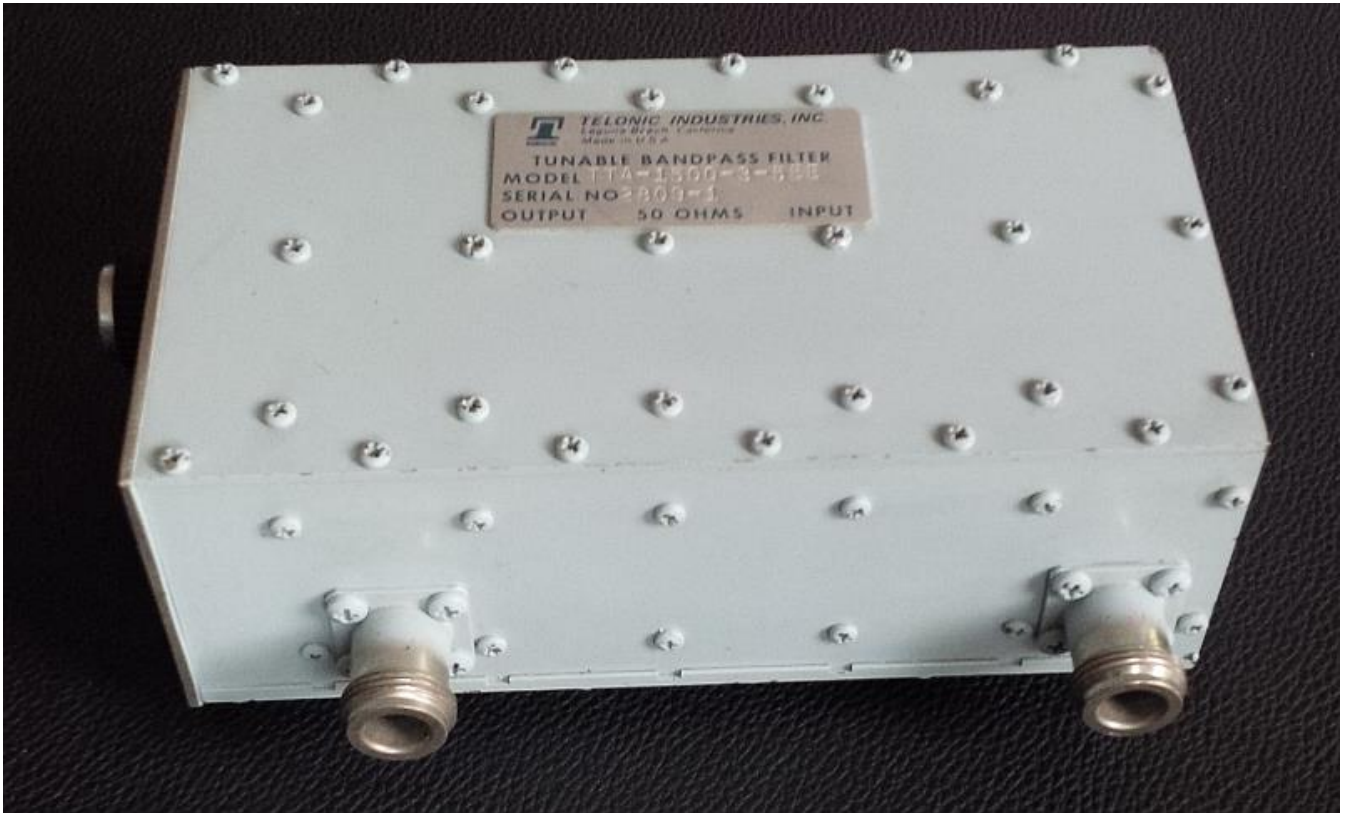
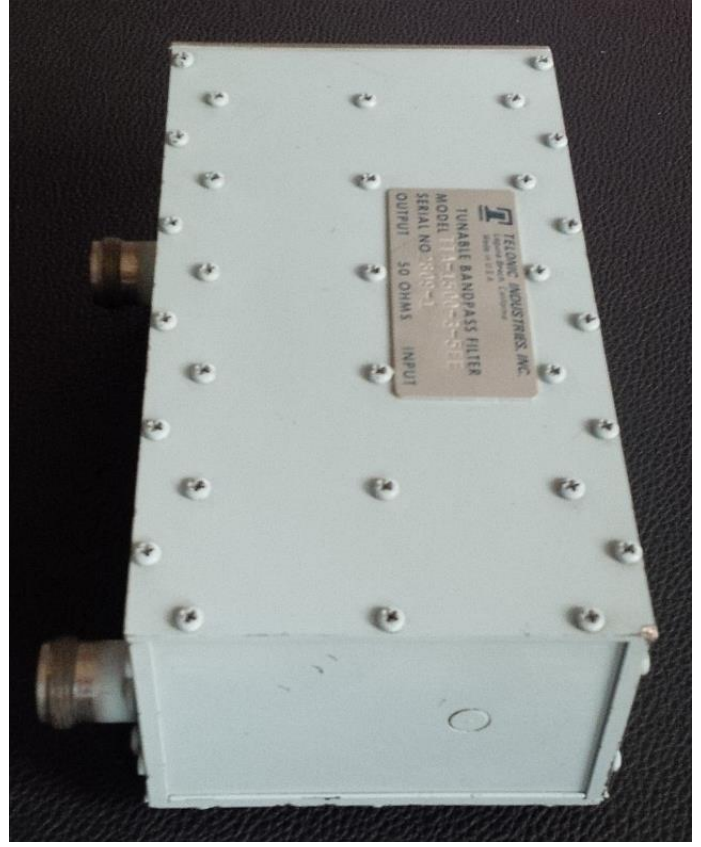
Tunable Bandpass Filter TTA-1500-3-5-EE

Matthias Bopp, DD1US, January 10th 2015

Hello,

recently I got hold of a tunable bandpass filter from Telonics. The part number is TTA-1500-3-5EE. This filter can be manually tuned and has a dial in the range from 1 GHz to 2 GHz, which indicates the presently tuned center frequency. As I did not really find good data on this filter in the internet I decided to post some pictures and measurement of this nice filter. Let us start with some pictures of the filter. Its dimensions are 17cm x 10cm x 5.5 cm (including the dial and the n-connectors).



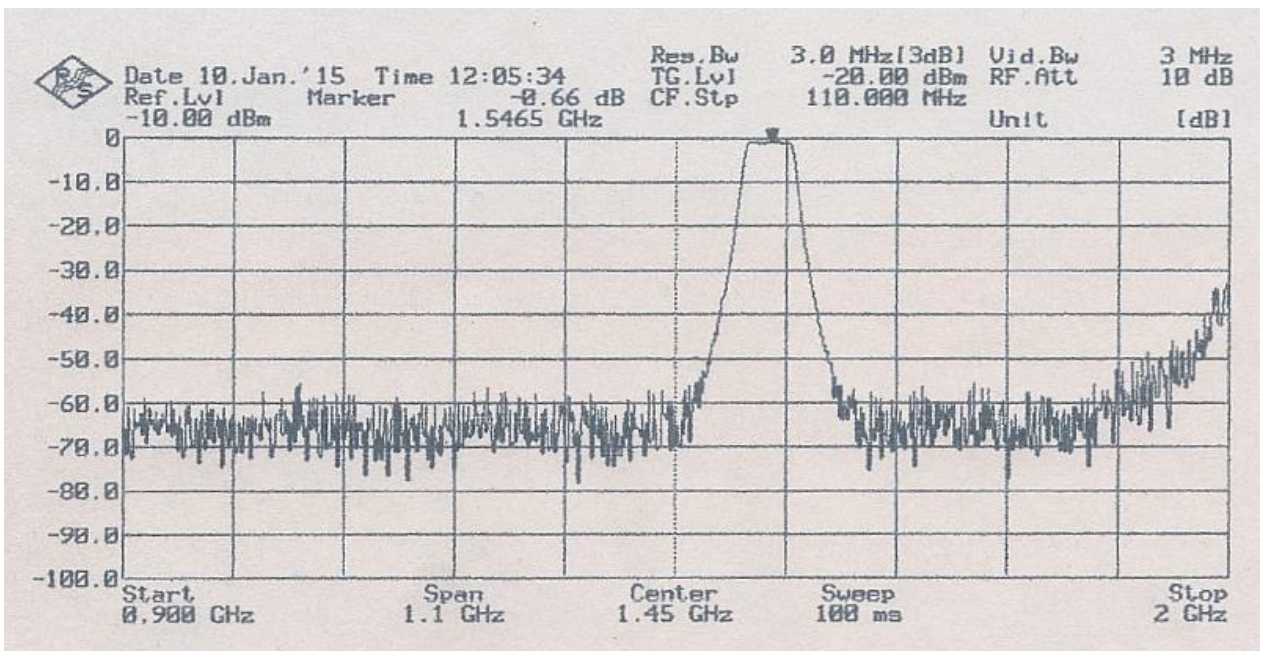


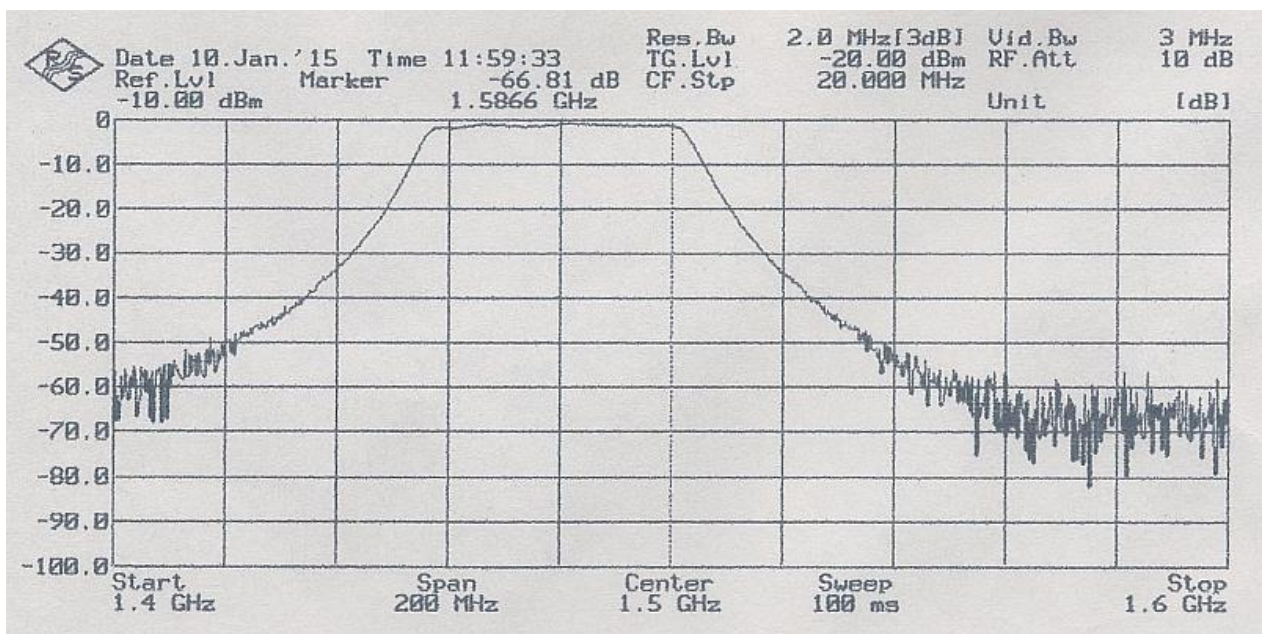
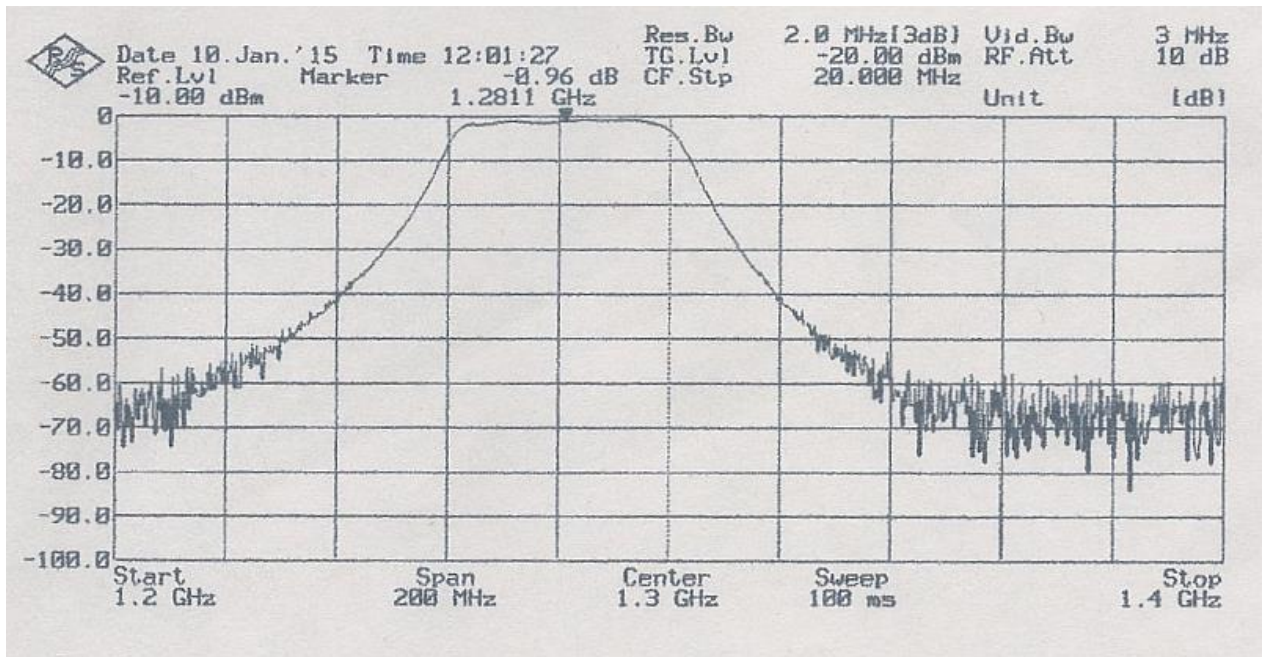


The filter can be tuned in the range from 964 MHz to 2230 MHz. Here are some measurements of the insertion loss versus frequency:

Frequency/MHz	Insertion Loss/dB	Frequency/MHz	Insertion Loss/dB
1000	0.70	1600	0.56
1100	0.92	1700	0.67
1200	0.72	1800	0.45
1300	0.72	1900	0.92
1400	0.67	2000	0.45
1500	0.93	2100	0.54
1540	0.54	2200	0.51
		2230	0.90

Finally here are some plots of the frequency response of the filter (wideband and narrow band).





I always appreciate feedback. Many thanks in advance.

Best regards

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