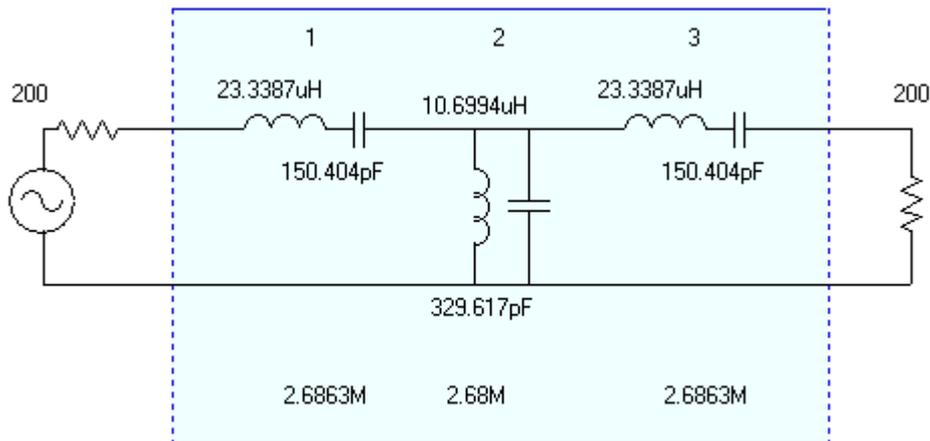


Bandpass filters designed with Elsie by Jan Verduyn G0BBL – QRP2000 Design Team for Softrock V9 Plugin BPF Kit by Tony KB9YIG

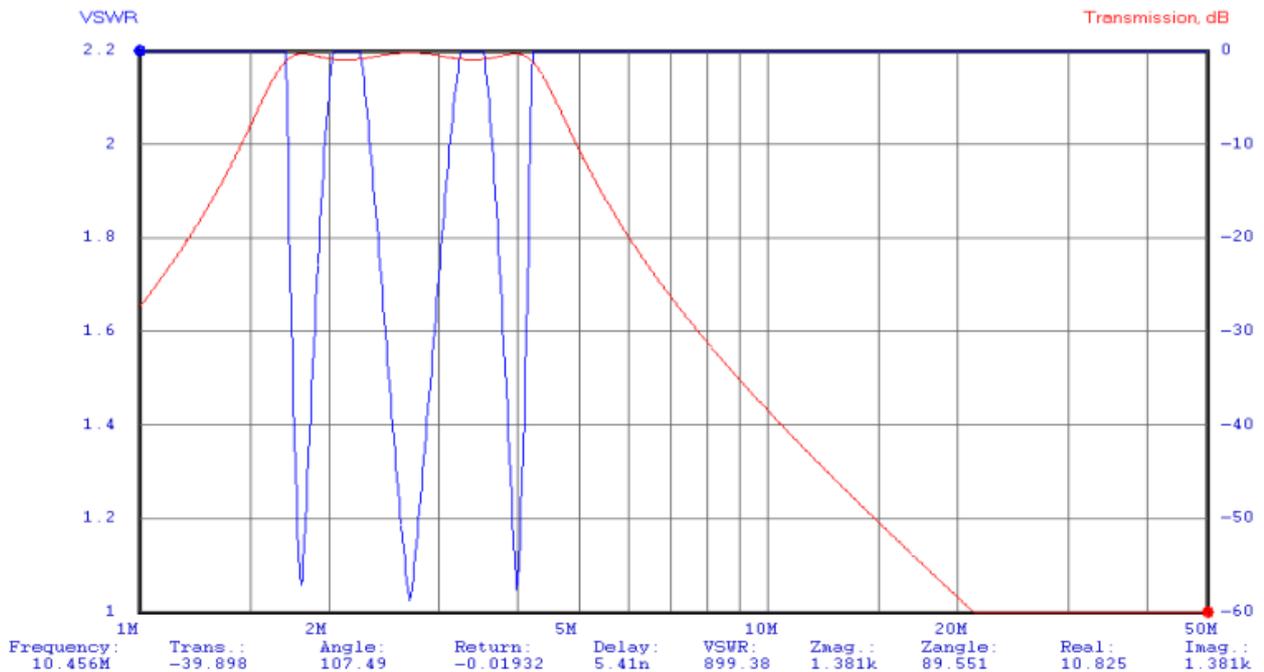
Each of the plots shows Transmission and VSWR.

The main design objective was to provide optimum 3rd and 5th harmonic attenuation of the main Amateur Radio band for each BPF to reduce spurious response of QSD detectors due to sub-sampling.

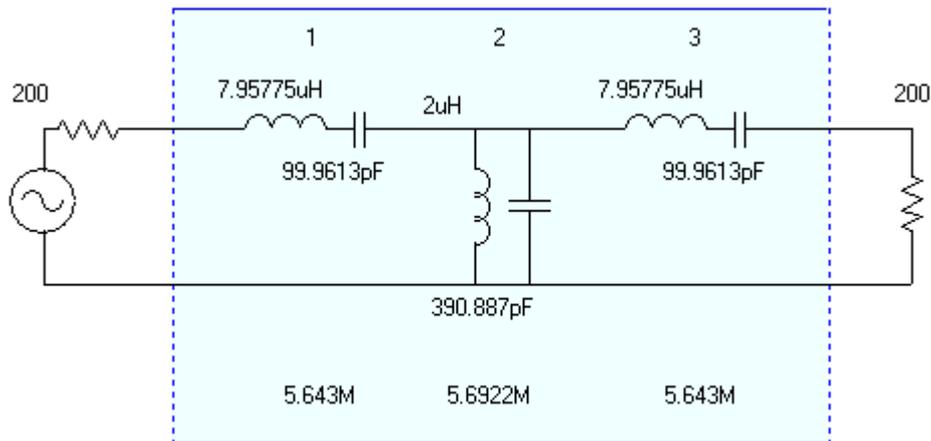
1. Band 1 - 1.8 MHz – 4 MHz Bandpass filter design



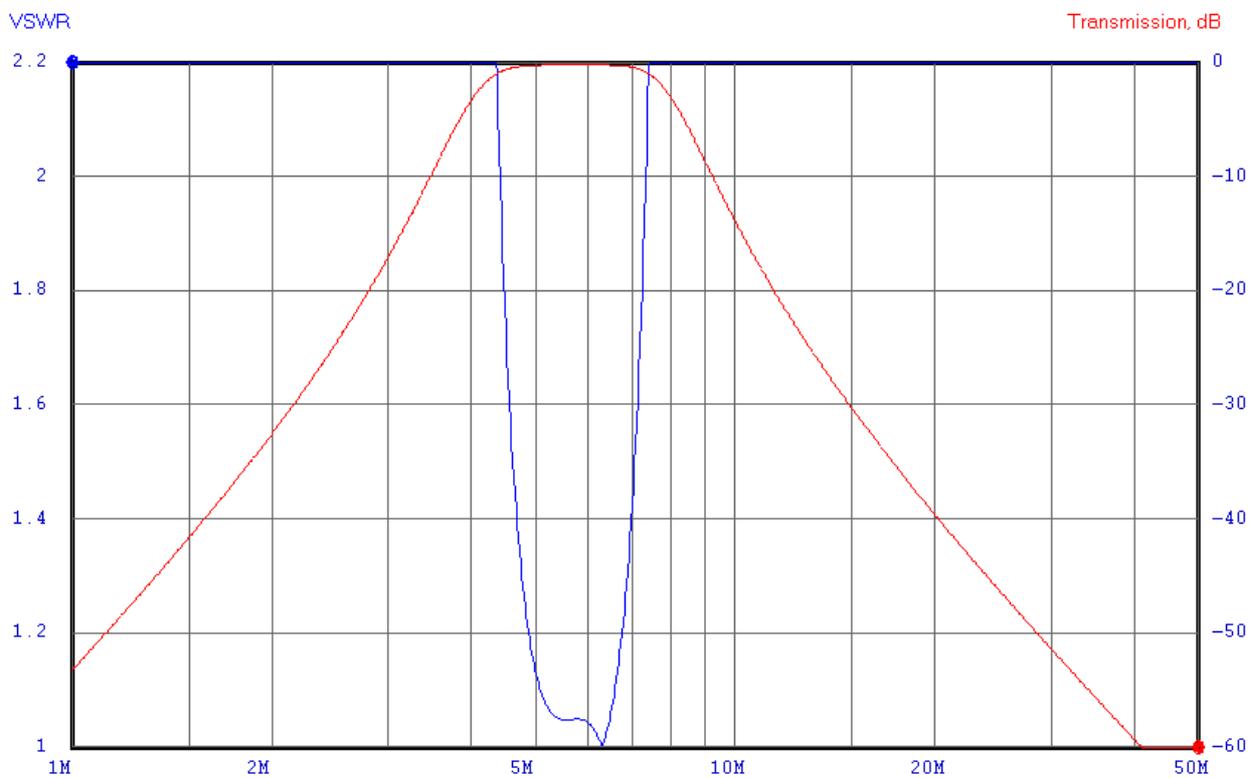
Attenuation of the 3.5 MHz Amateur Band at 10.5 MHz is additional -40dB, at 17.5 MHz – 55dB



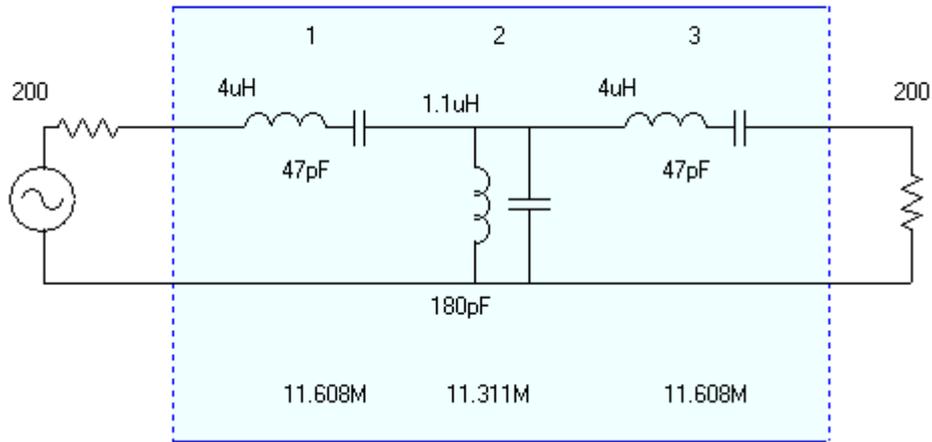
2. Band 2 - 4 MHz – 8 MHz Bandpass filter design



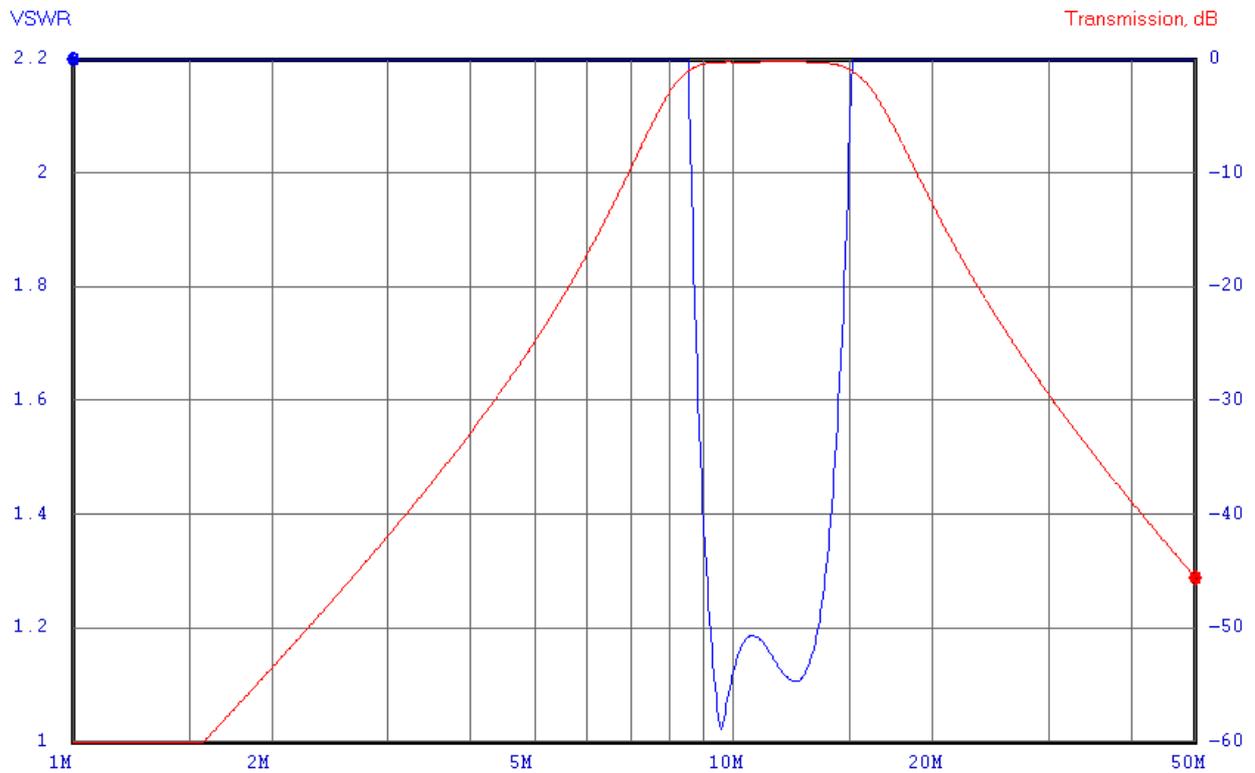
Attenuation of 7 MHz Amateur band at 21 MHz is additional -40dB, at 35 MHz – 55dB



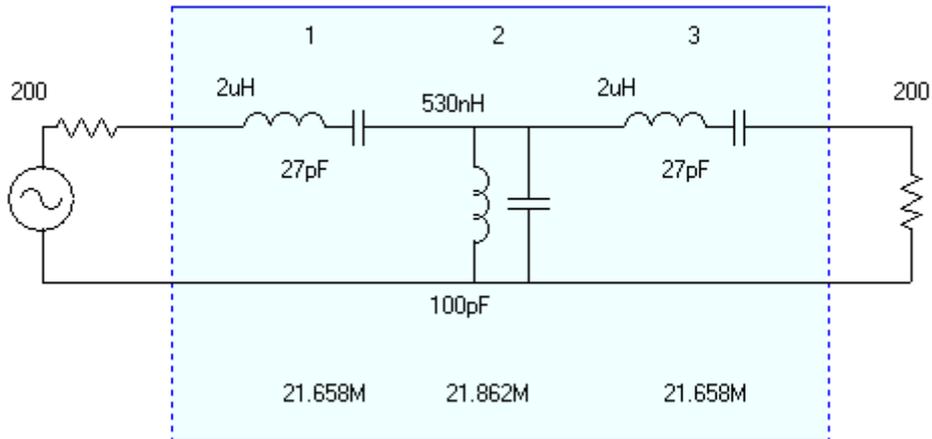
3. Band 4 - 8 MHz – 16 MHz Bandpass filter design



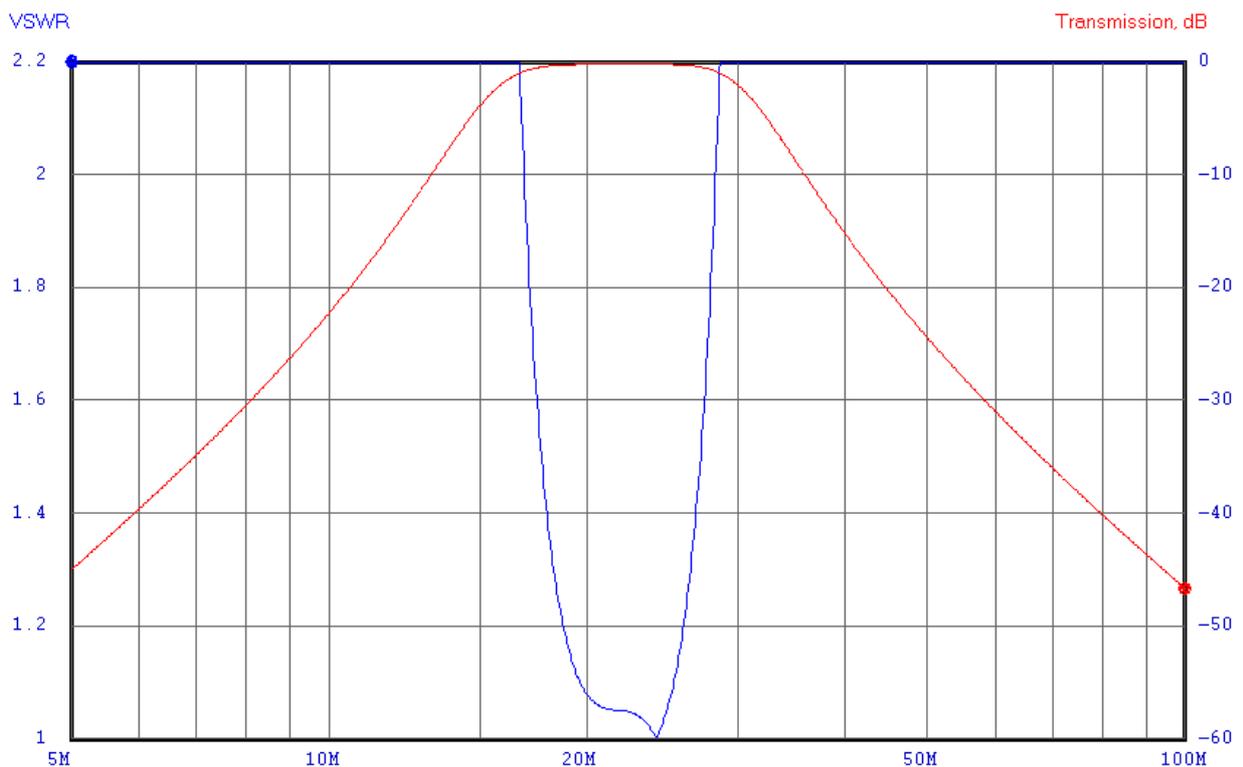
Attenuation of 14 MHz Amateur band at 42 MHz is additional – 40dB



4. Band 2 - 16 MHz – 30 MHz Bandpass filter design



Attenuation of 21 MHz Amateur band at 63 MHz is additional -31dB and about -47dB at 105 MHz



73,

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