
Cardy Wei

```
%Professor Keene
%DSP Proj
%Located in srconvert
%function out=srconvert(in)
%
% signal=in;
%
% Rp=(10^(0.01/20)-1); %Passband Ripple (undo 20log)
% Rst=10^(-100/20); %Stopband Ripple
%
% filt1=firceqrip(250, 1/2, [Rp, Rst], 'passedge');
% filt2=firceqrip(250, 1/5, [Rp, Rst], 'passedge');
%
% Up=upsample(signal, 5);
% res=fftfilt(filt2, Up);
% Up2=upsample(res, 2);
% res=fftfilt(filt1, Up2);
% Up3=upsample(res, 2);
% res=fftfilt(filt1, Up3);
% Up4=upsample(res, 2);
% res=fftfilt(filt1, Up4);
% Up5=upsample(res, 2);
% res=fftfilt(filt1, Up5 );
% Up6=upsample(res, 2);
% res=fftfilt(filt1, Up6);
% Up7=upsample(res, 2);
% res=fftfilt(filt1, Up7);
%
% out = downsample(res, 147);
% audiowrite('signal4.wav', out*100, 24000)
% end
```

```
y=srconvert([1 zeros(1,3000)]);
verify(y);
```

ans =

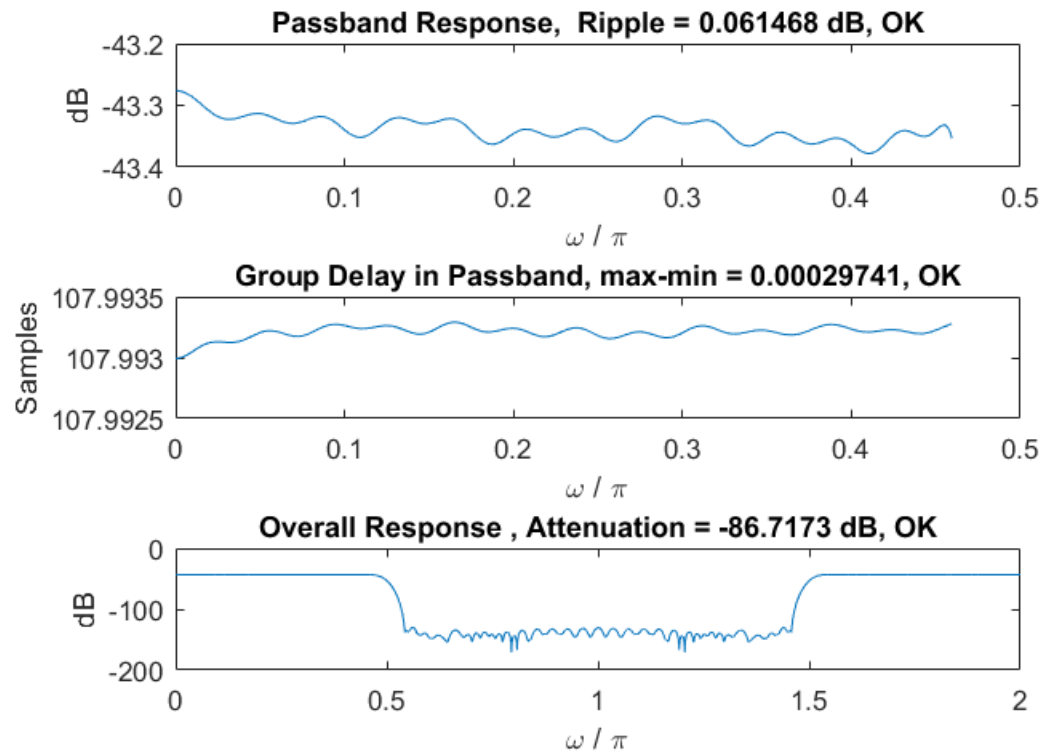
Passband Ripple: 0.061 dB

ans =

Groupdelay Variation: 2.974107e-04 samples

ans =

Stopband Attenuation: -86.717 dB



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