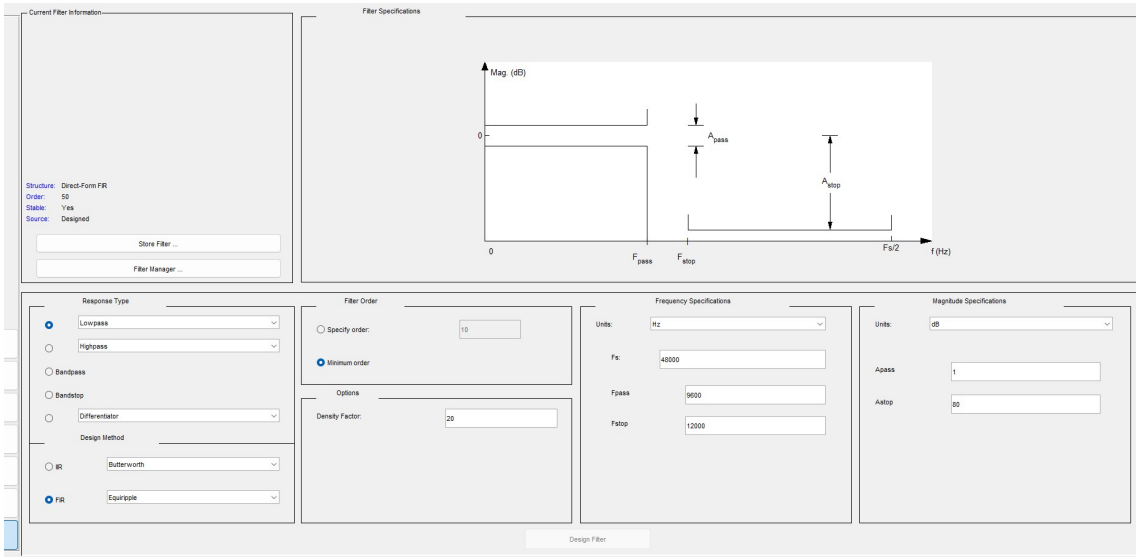
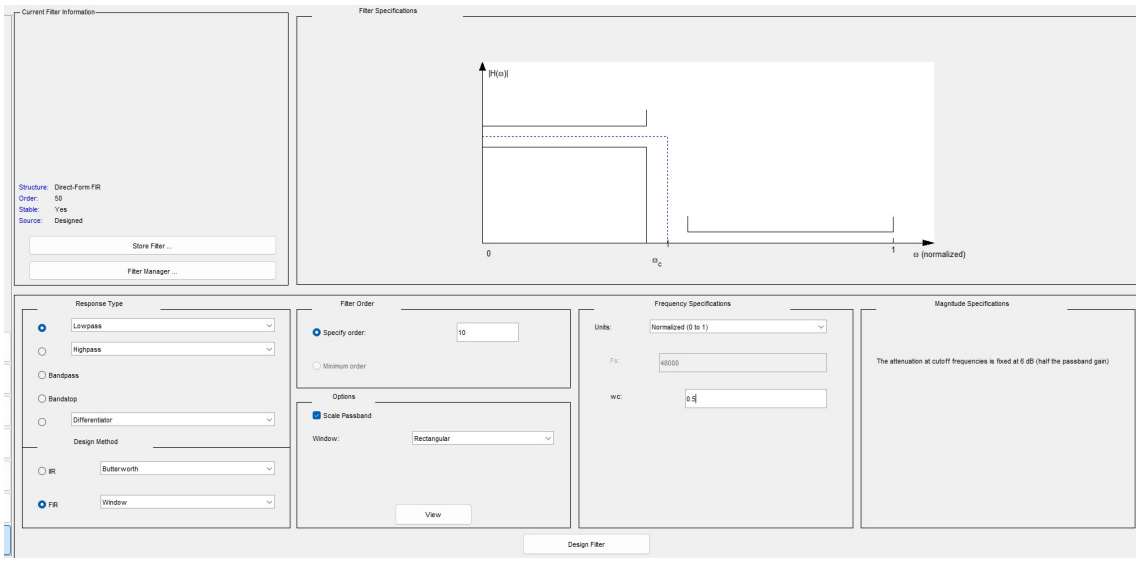
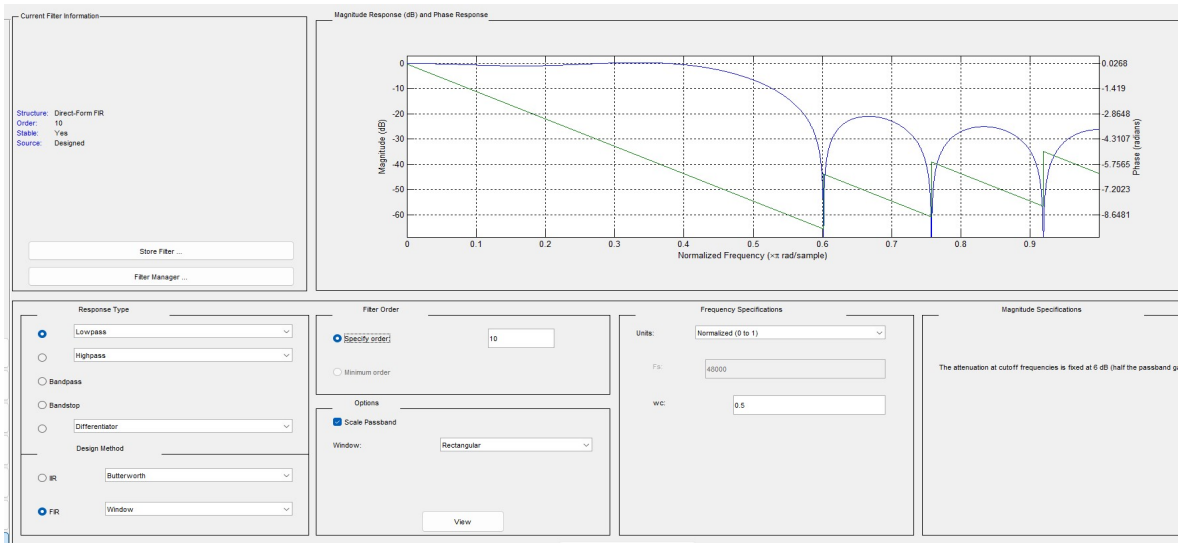

Current Filter Information
Structure: Direct-Form FIR
Order: 50
Stable: Yes
Source: Designed
Store Filter ...
Filter Manager ...
Filter Specifications
Mag. (dB)
0
Apass
Astop
0
Fpass
Fstop
Fs/2
f (Hz)
Response Type
Lowpass
Highpass
Bandpass
Bandstop
Differentiator
Design Method
IIR
Butterworth
FIR
Equiripple
Filter Order
Specify order:
10
Minimum order
Options
Density Factor:
20
Frequency Specifications
Units:
Hz
Fs:
48000
Fpass
9600
Fstop
12000
Magnitude Specifications
Units:
dB
Apass
1
Astop
80
Design Filter

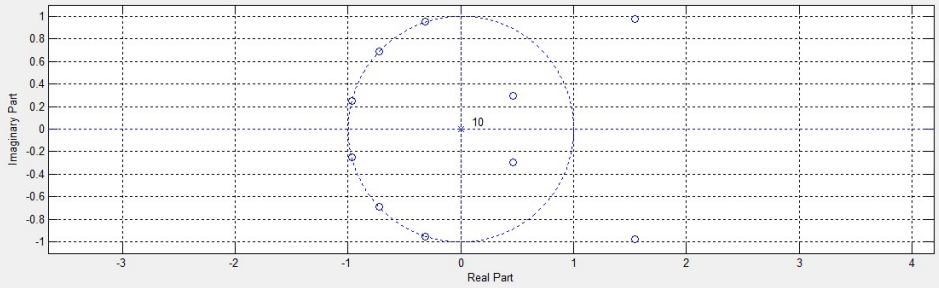

Current Filter Information
Structure: Direct-Form FIR
Order: 50
Stable: Yes
Source: Designed
Store Filter ...
Filter Manager ...
Filter Specifications
|H(ω)|
0
ωc
1
ω (normalized)
Response Type
Lowpass
Highpass
Bandpass
Bandstop
Differentiator
Design Method
IIR
Butterworth
FIR
Window
Filter Order
Specify order:
10
Minimum order
Options
Scale Passband
Window:
Rectangular
View
Frequency Specifications
Units:
Normalized (0 to 1)
Fs:
48000
wc:
0.5
Magnitude Specifications
The attenuation at cutoff frequencies is fixed at 6 dB (half the passband gain)
Design Filter


Current Filter Information
Structure: Direct-Form FIR
Order: 10
Stable: Yes
Source: Designed
Store Filter ...
Filter Manager ...
Magnitude Response (dB) and Phase Response
Magnitude (dB)
0
-10
-20
-30
-40
-50
-60
Phase (radians)
0.0268
-1.419
-2.8648
-4.3107
-5.7565
-7.2023
-8.6481
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
Normalized Frequency (×π rad/sample)
Response Type
Lowpass
Highpass
Bandpass
Bandstop
Differentiator
Design Method
IIR
Butterworth
FIR
Window
Filter Order
Specify order:
10
Minimum order
Options
Scale Passband
Window:
Rectangular
View
Frequency Specifications
Units:
Normalized (0 to 1)
Fs:
48000
wc:
0.5
Magnitude Specifications
The attenuation at cutoff frequencies is fixed at 6 dB (half the passband g

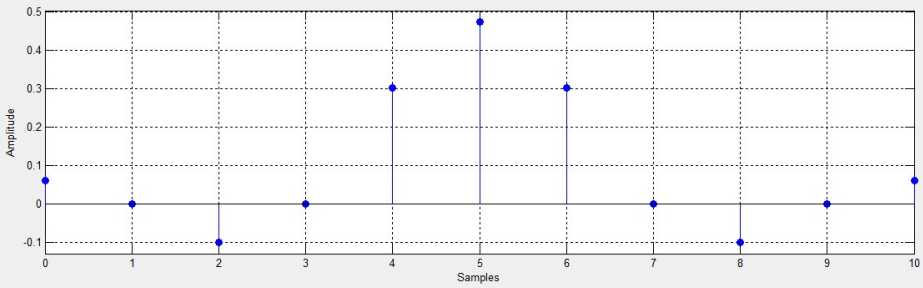
Filter Coefficients

```
Numerator:
 0.060530312237274064
-0.000000000000000001853206328319188 7
-0.10088385372879011
 0.000000000000000001853206328319188 7
 0.30265156118637032
 0.47540396061029139
 0.30265156118637032
 0.000000000000000001853206328319188 7
-0.10088385372879011
-0.000000000000000001853206328319188 7
 0.060530312237274064
```

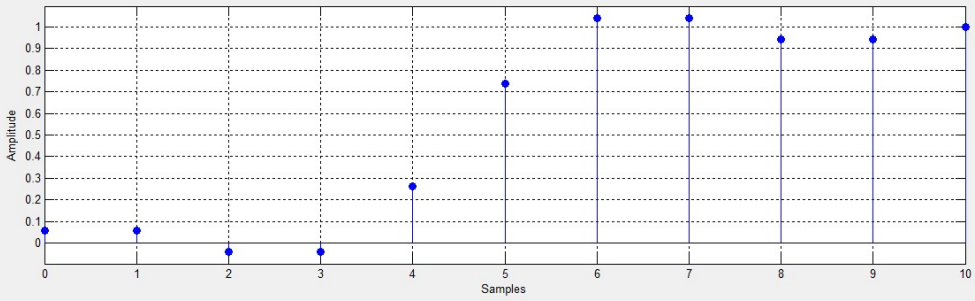
Pole/Zero Plot

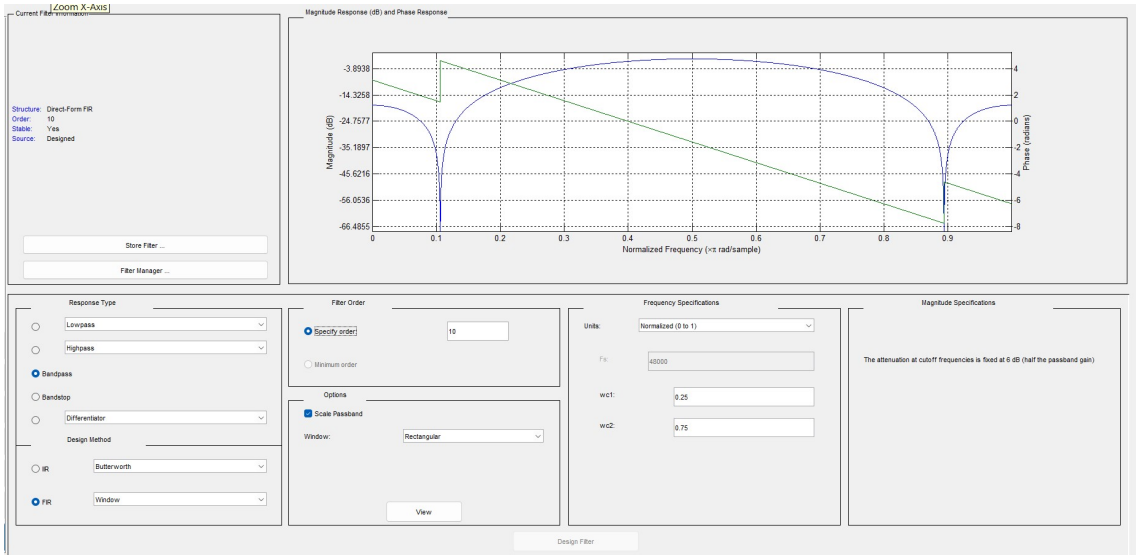


Impulse Response



Step Response

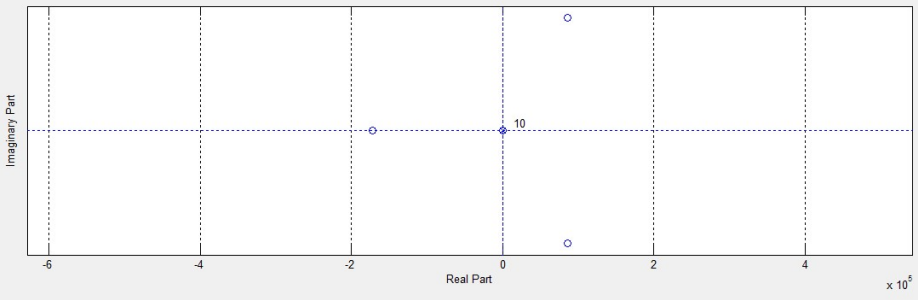




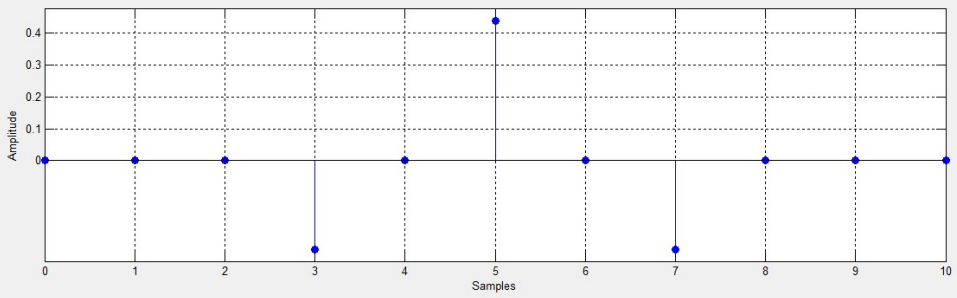
Filter Coefficients

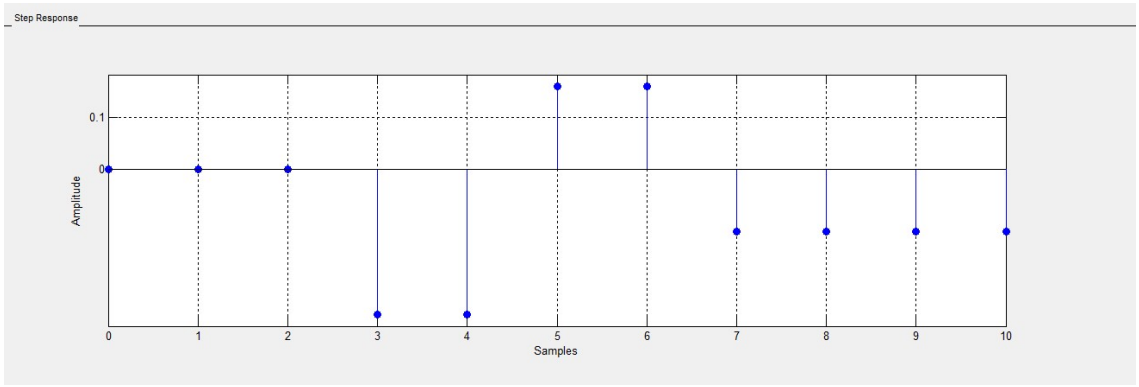
```
Numerator:
-0.000000000000000054943655436401107
 0.000000000000000017148050888826768
-0.000000000000000024419402416178269
-0.28004957675577868
 0.000000000000000024419402416178269
 0.43990084648844258
 0.000000000000000024419402416178269
-0.28004957675577868
-0.000000000000000024419402416178269
 0.000000000000000017148050888826768
-0.000000000000000054943655436401107
```

Pole/Zero Plot



Impulse Response




Step Response
0.1
0
Amplitude
0
1
2
3
4
5
6
7
8
9
10
Samples