

In-class problem #2

Group #:

Sample rate is 11,025 Hz

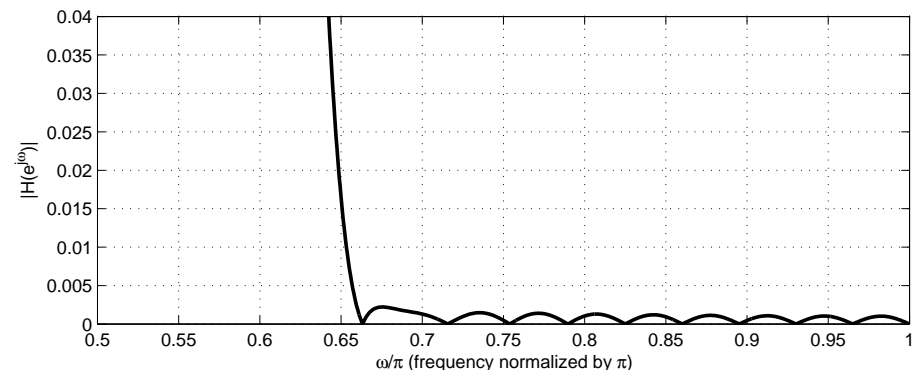
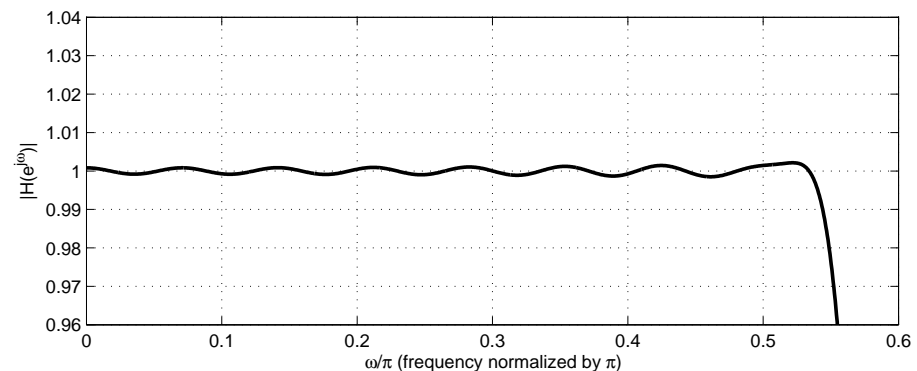
LPF design must meet the following specifications:

- LPF must pass all frequencies up to 3,000 Hz.

The allowable amplitude distortion (ripple) in the passband is $\pm 2\%$, *i.e.*, $\delta_1 = 0.02$.

- Above 3,600 Hz, filter must have attenuation of at least 50 dB, *i.e.*, $20 \log_{10}(\delta_2) = -50$.

Does this filter meet specs? \Rightarrow



Zoomed in plots for in-class #2

