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

\[ |H(e^{j\omega})| \]

\( \omega/\pi \) (frequency normalized by \( \pi \))