



Filter Wizard

Created by Adam Greig on 7/05/2014



Filter Wizard Design Report

Filter Requirements for Low-Pass, 4th order Butterworth

Specifications: Optimize for Specific Components, $+V_s = 3.3$, $-V_s = 0$

Gain: 0 dB

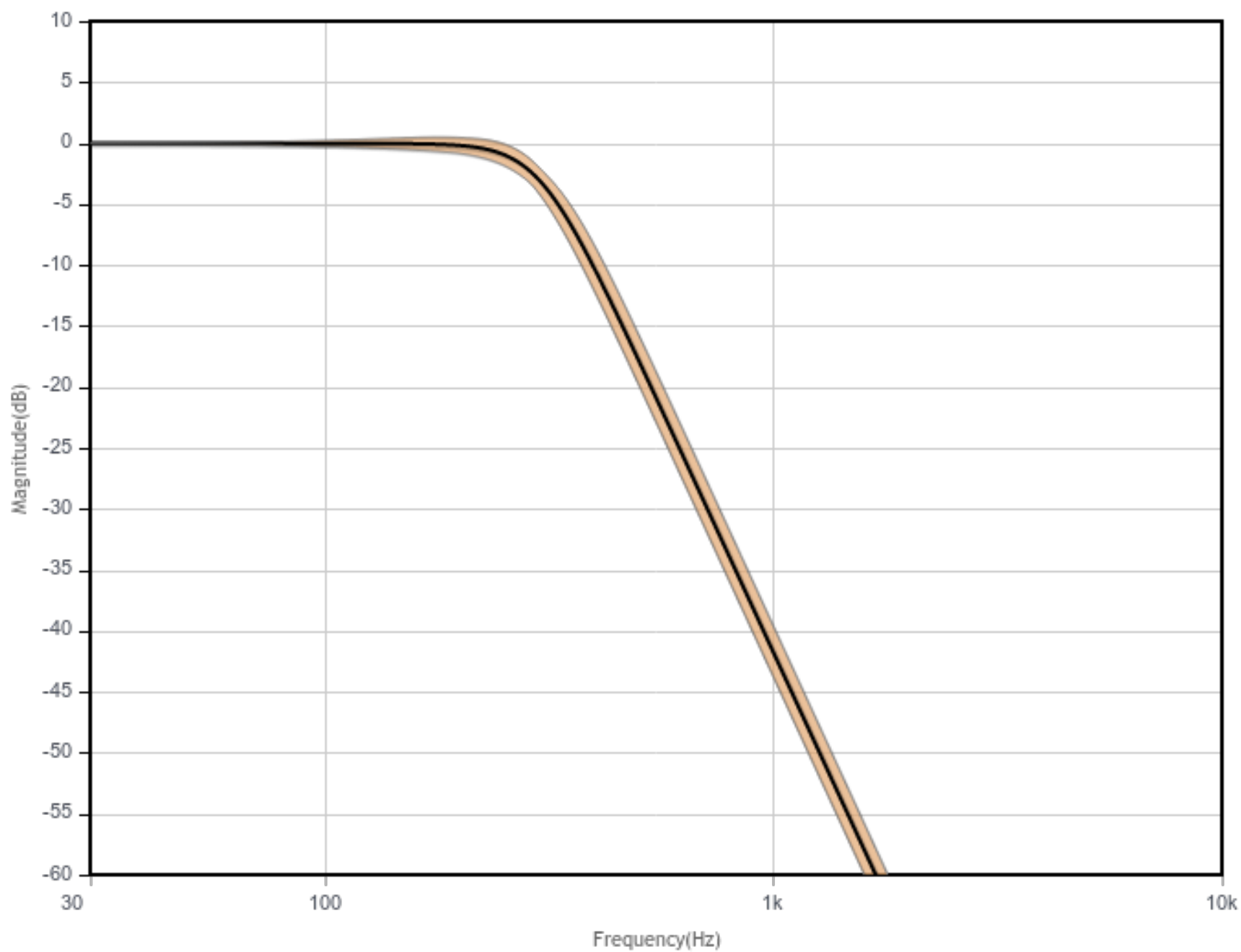
Passband: -3dB at 300Hz

Stopband: -40dB at 1kHz

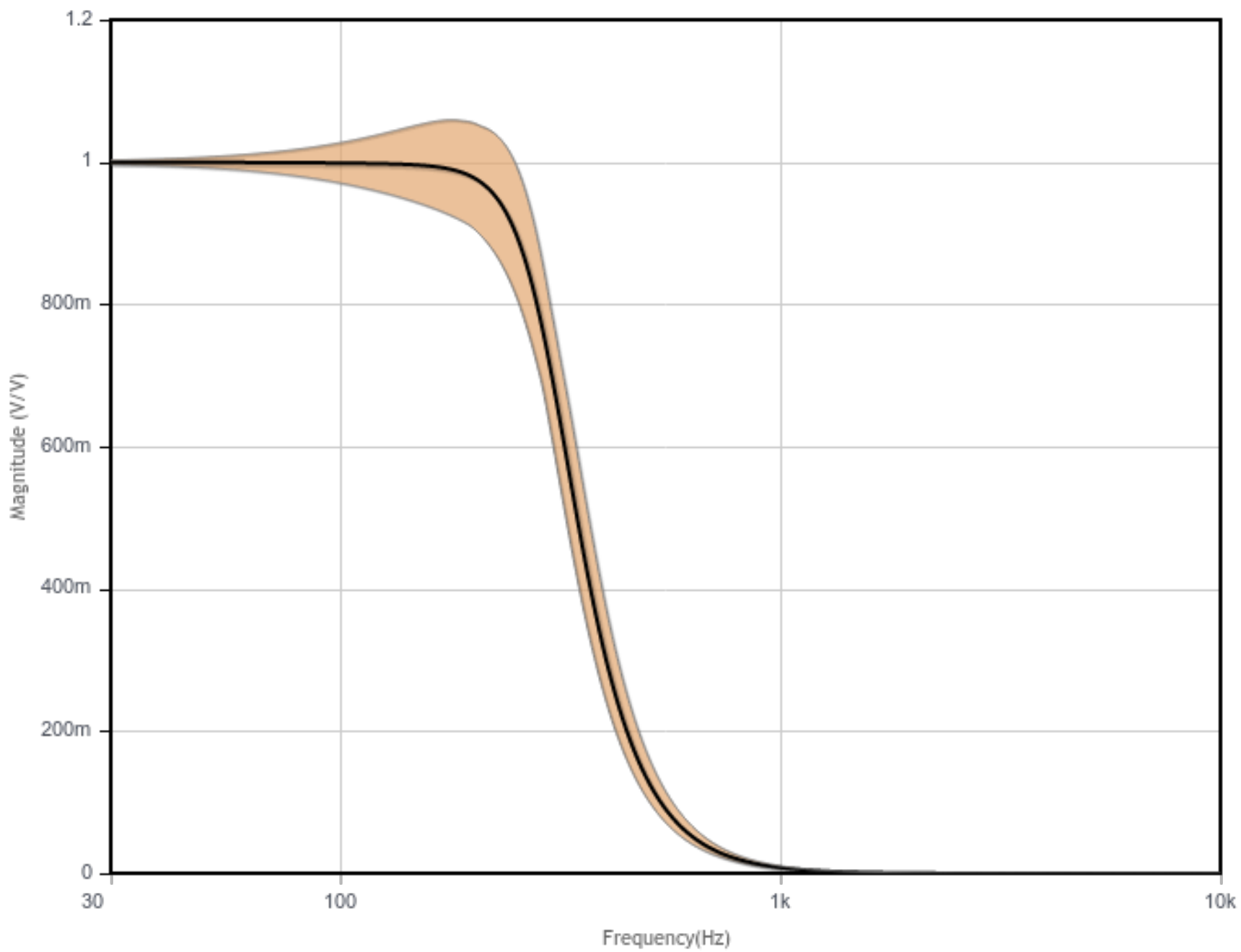
Component Tolerances: Capacitor = 5%; Resistor = 1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

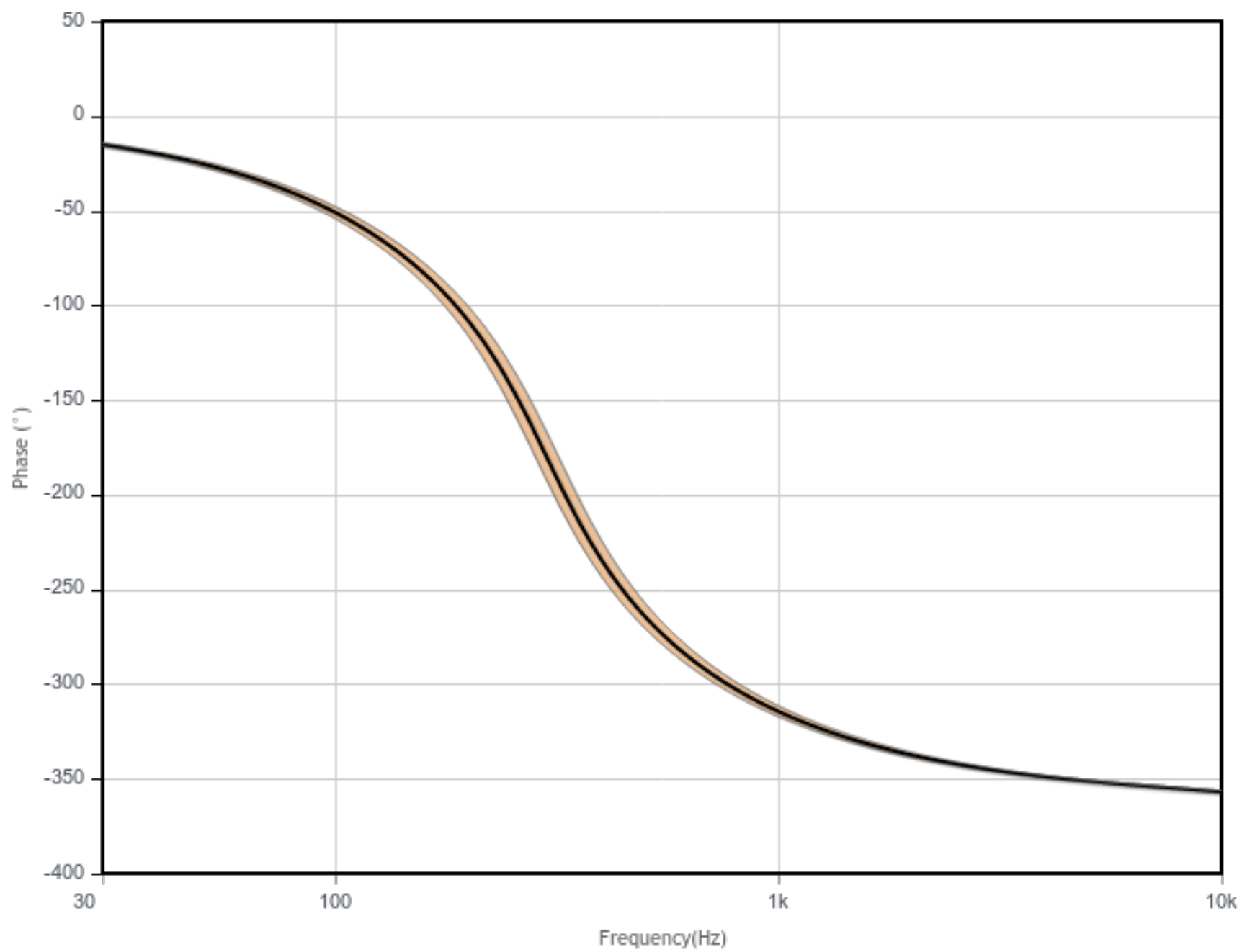
Magnitude(dB)



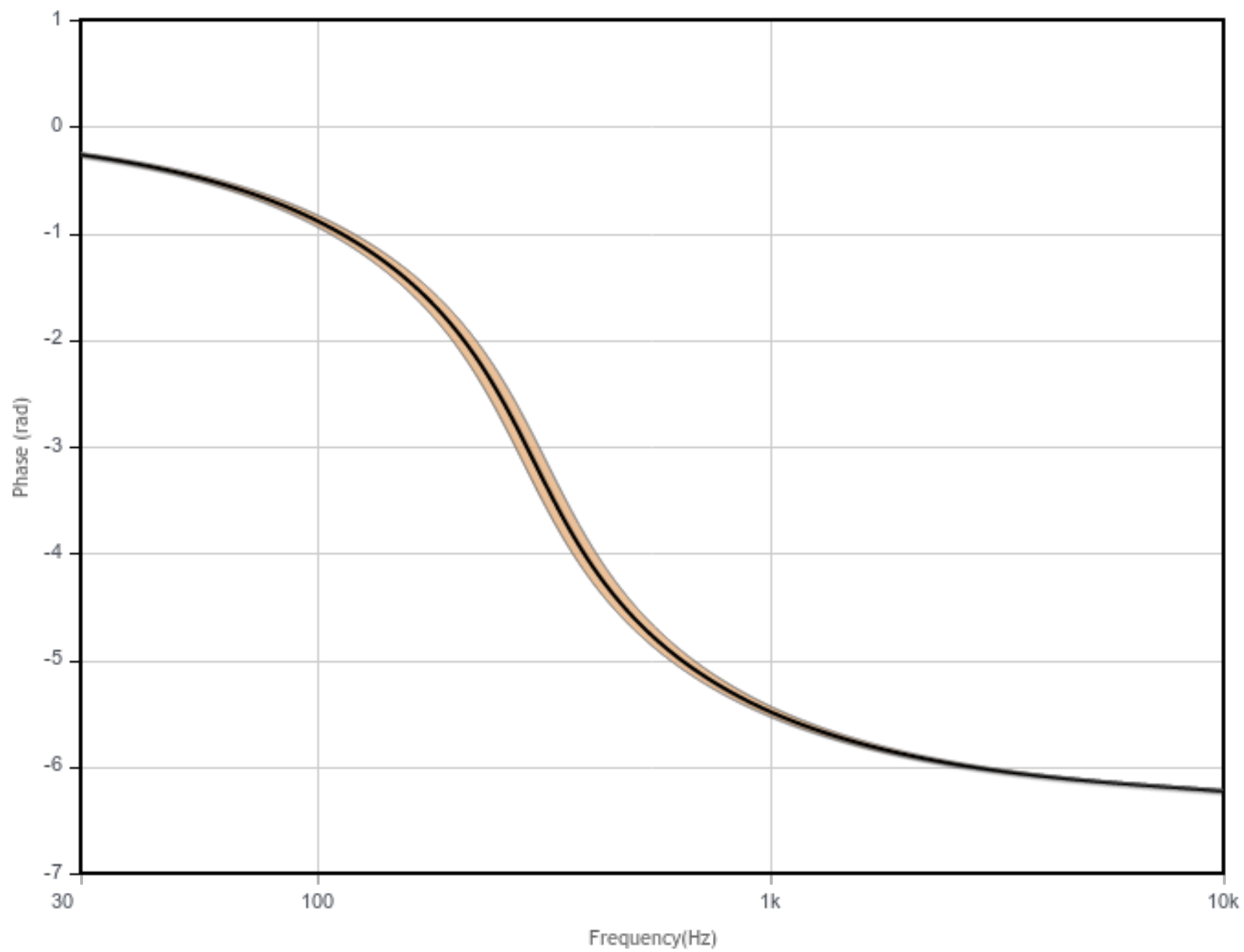
Magnitude(Volts per Volt)



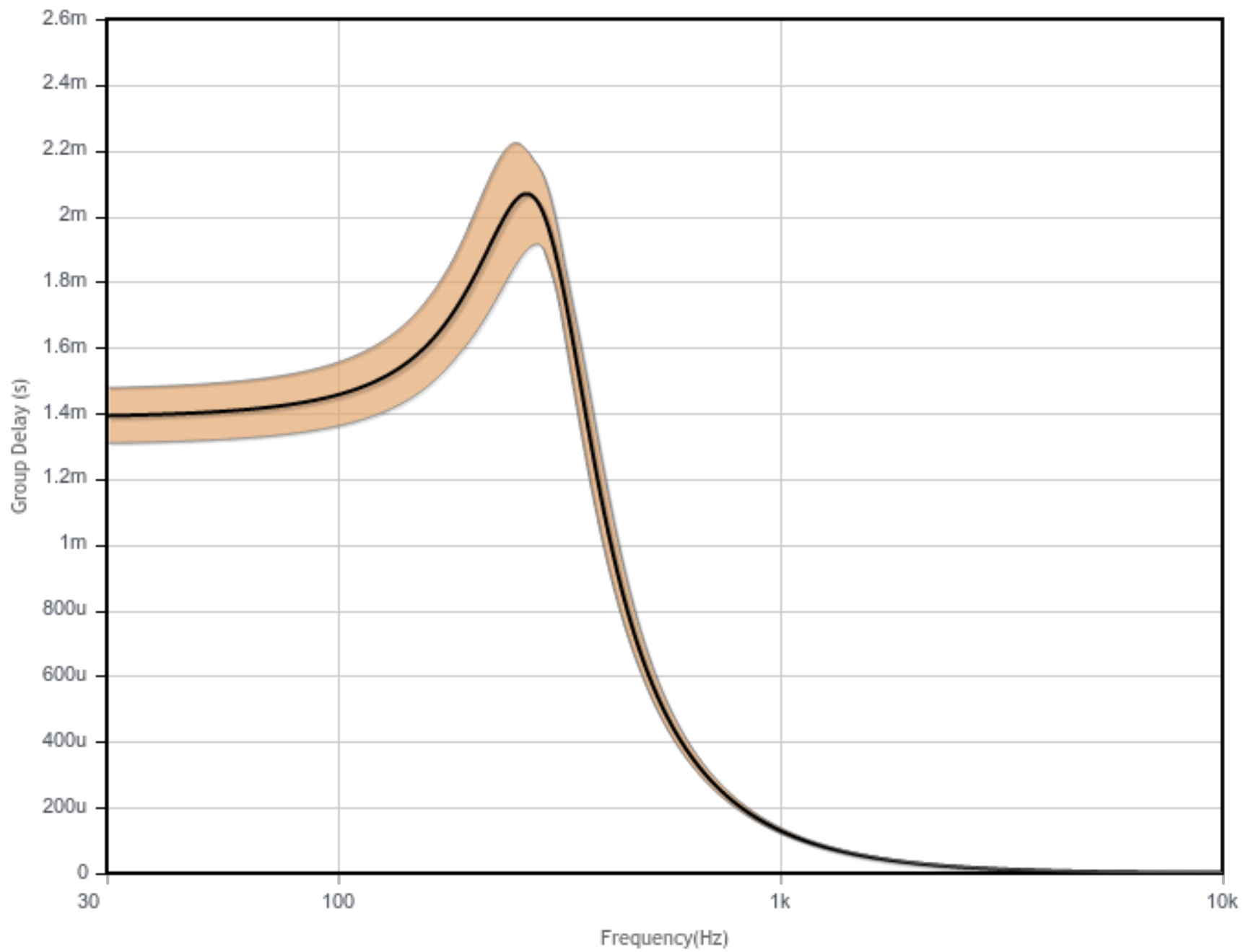
Phase(degrees)



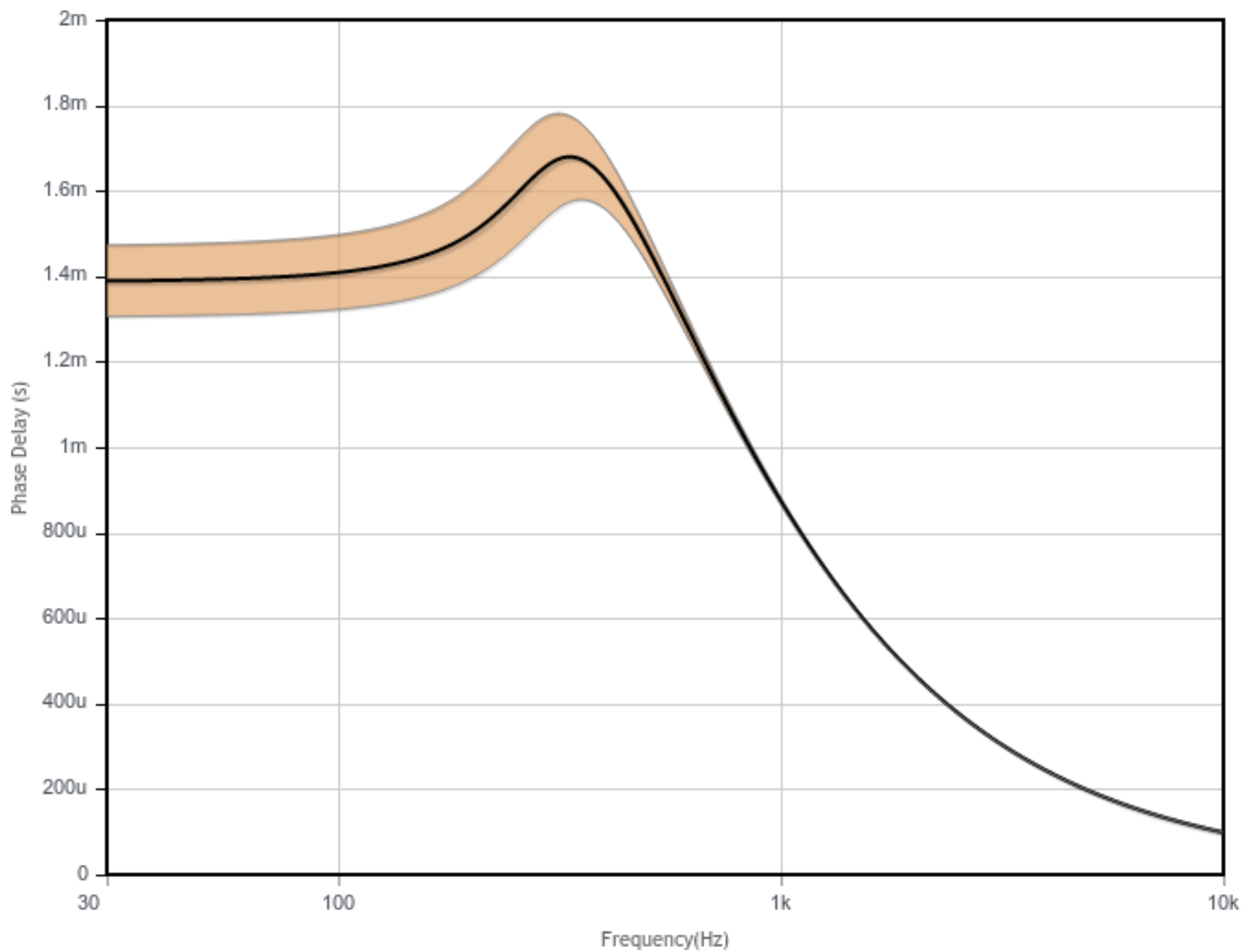
Phase(radians)



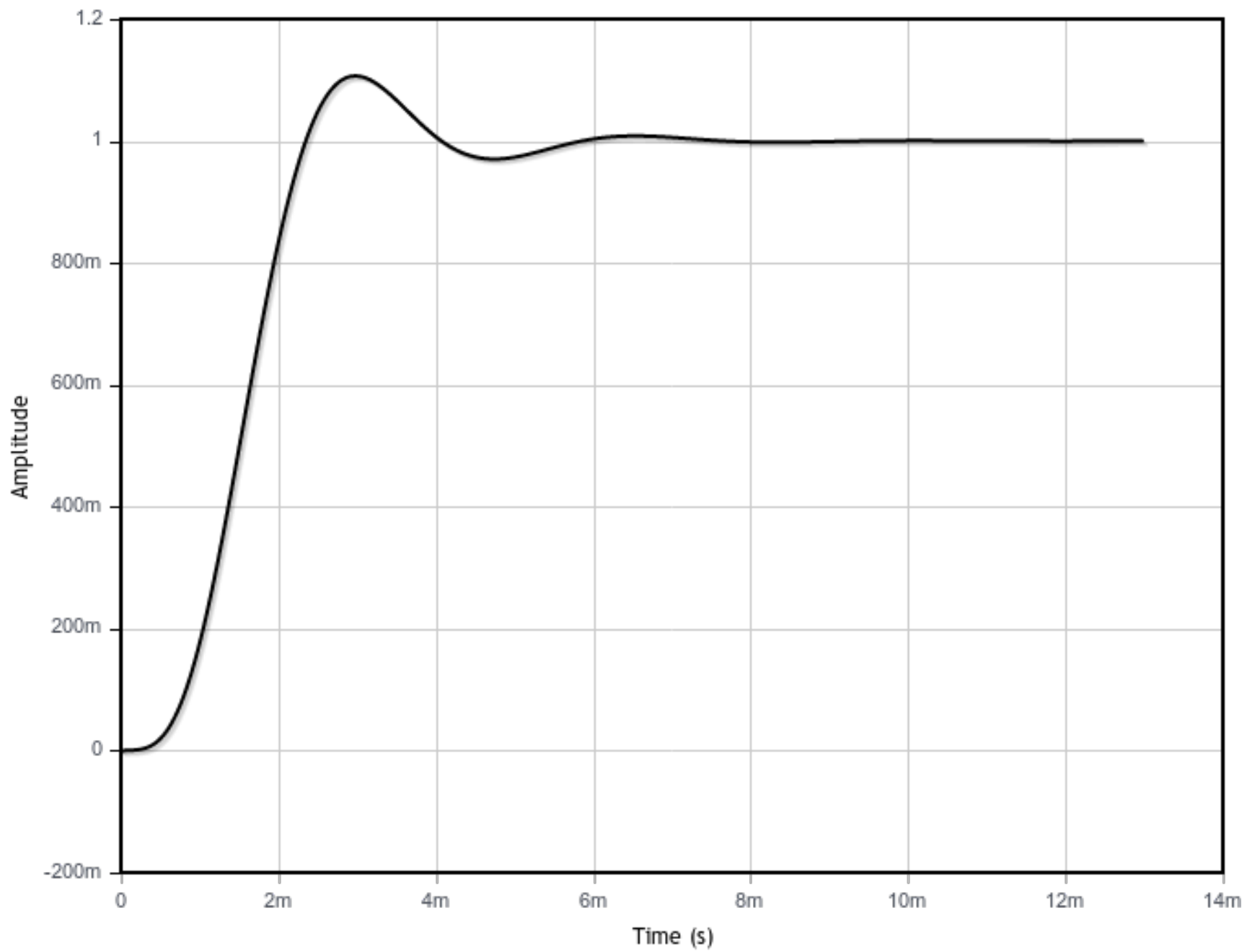
Group Delay



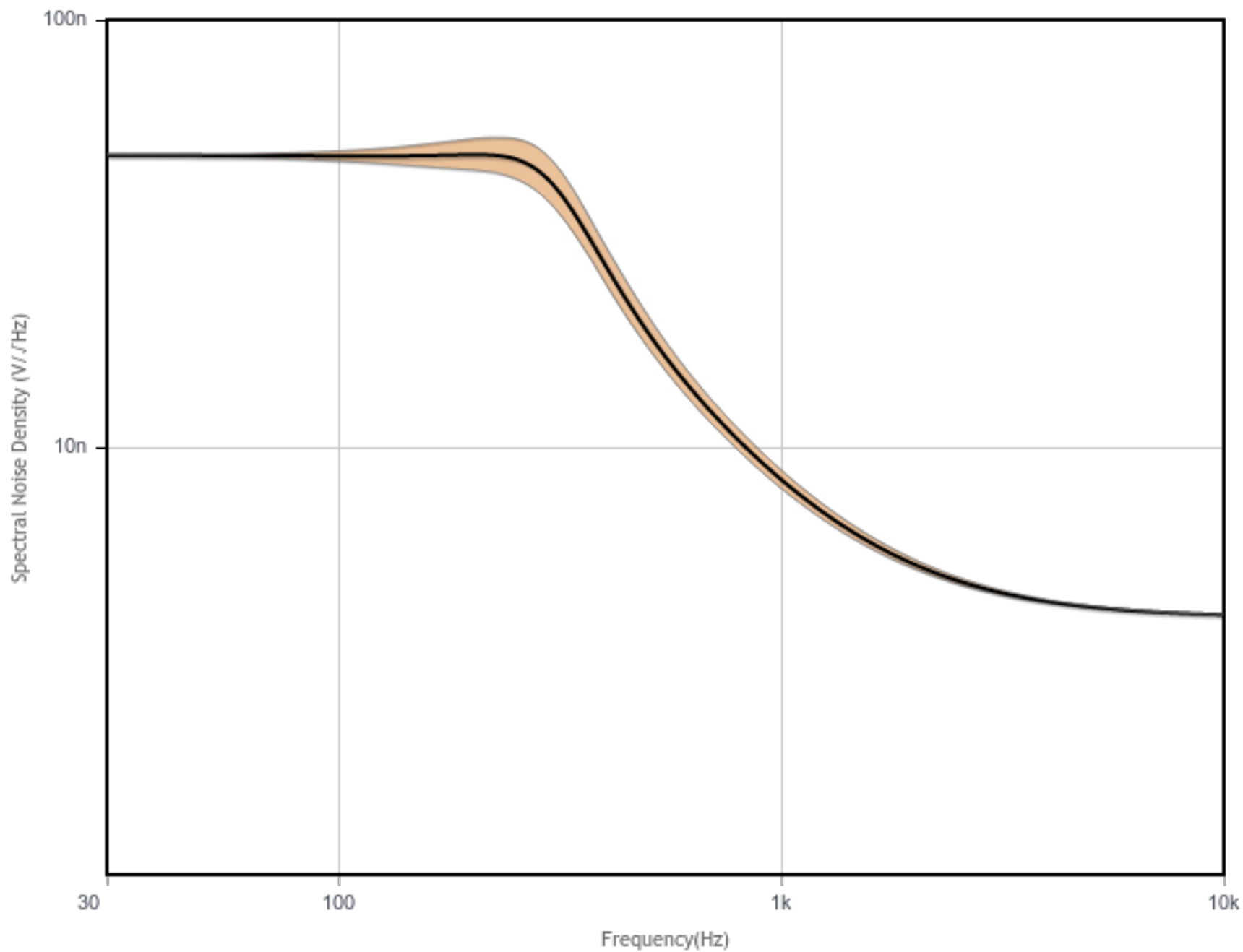
Phase Delay



Step Response



Noise



Circuit

