



Filter Wizard

CUSF m2fc SG AA

Created by Adam Greig on 7/05/2014



Filter Wizard Design Report

Filter Requirements for Low-Pass, 4th order Butterworth

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

Gain: 0 dB

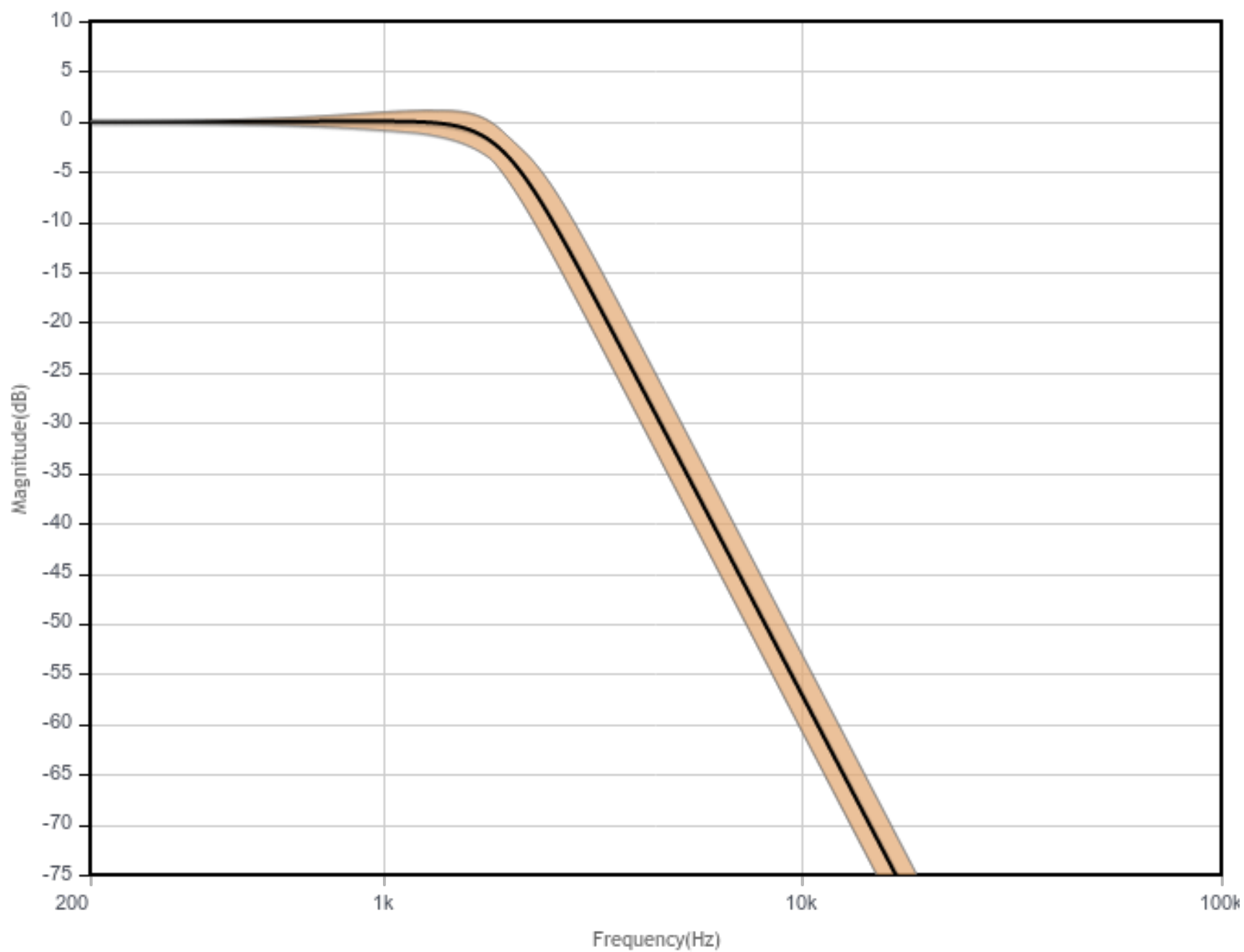
Passband: -3dB at 2kHz

Stopband: -55dB at 10kHz

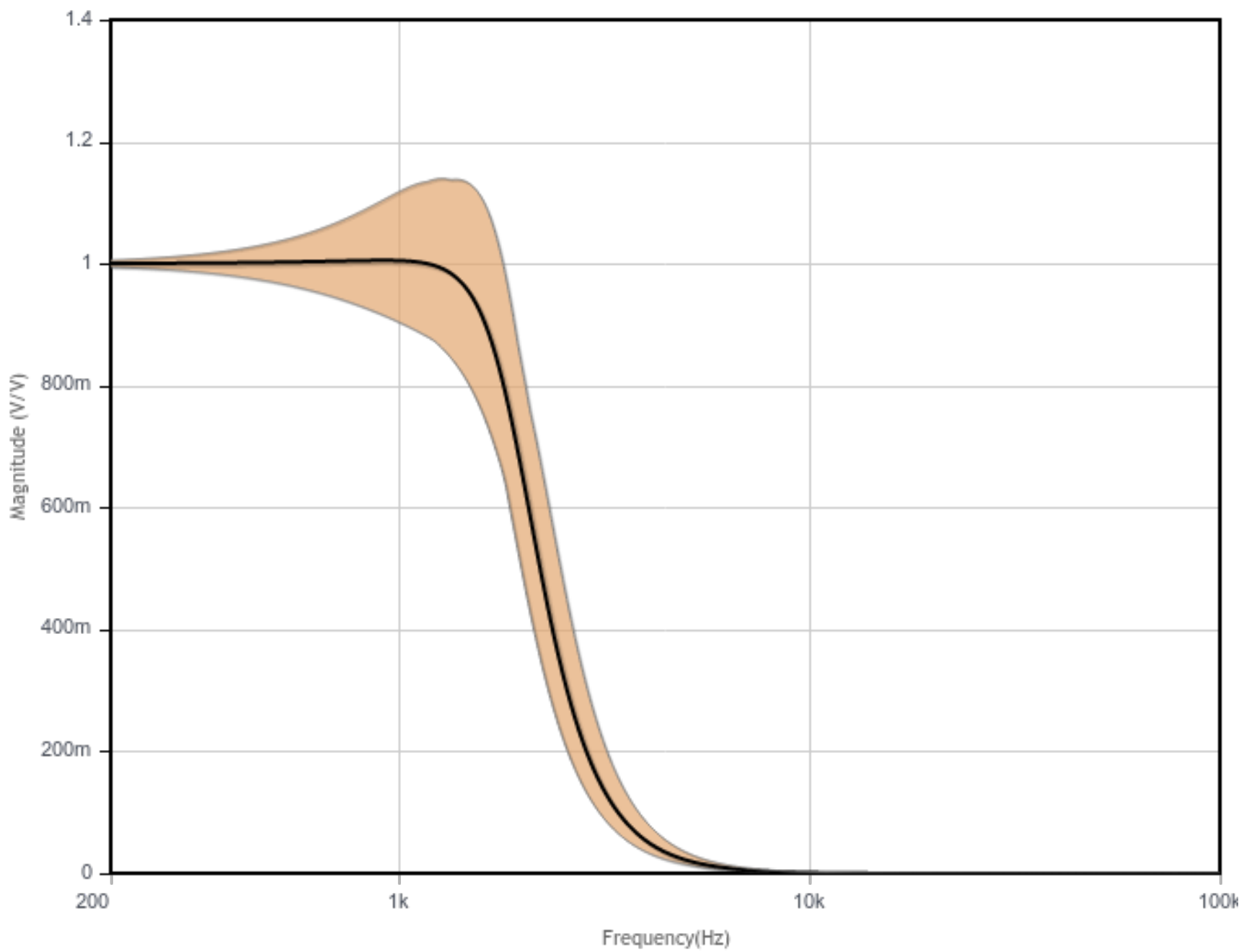
Component Tolerances: Capacitor = 10%; Resistor = 1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

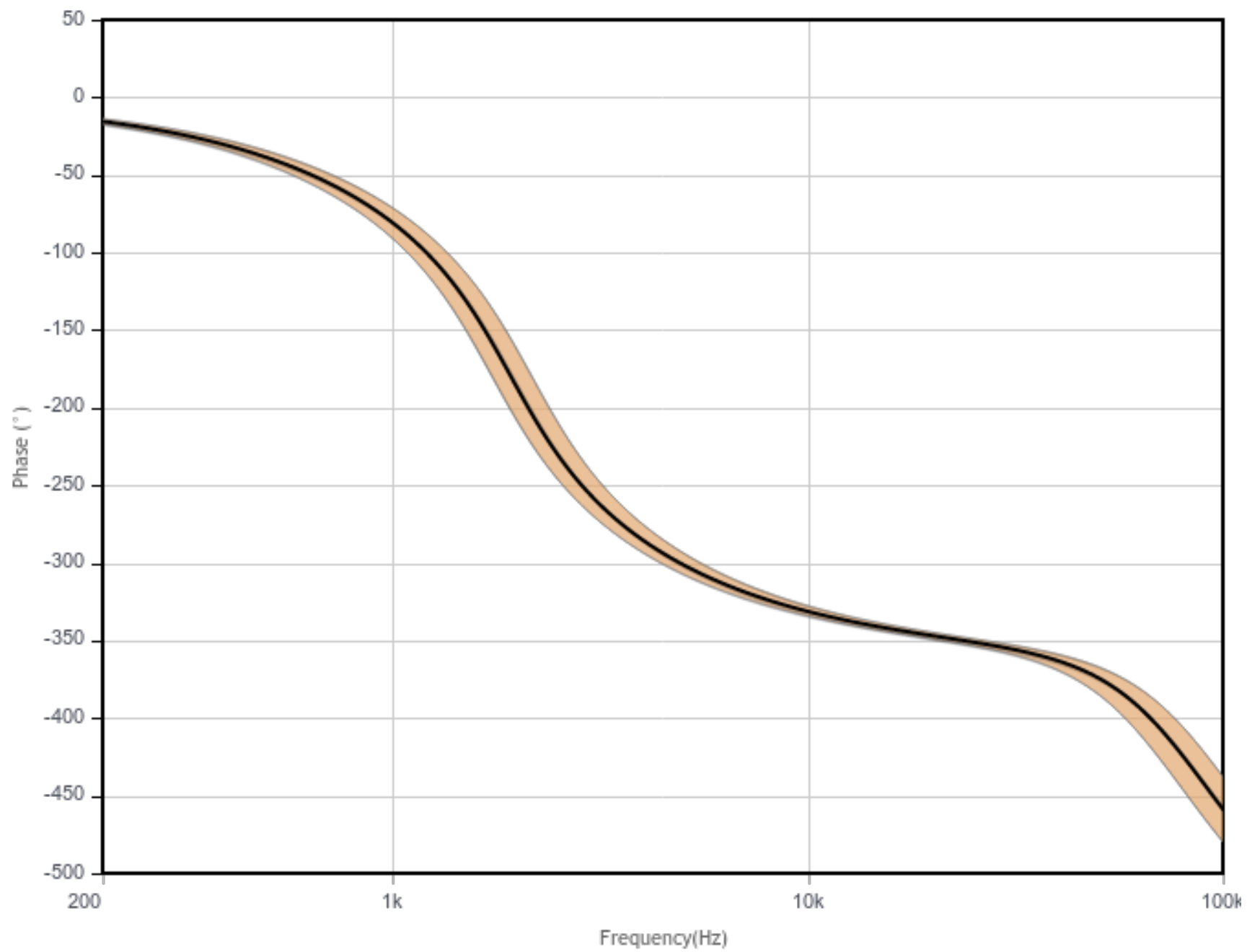
Magnitude(dB)



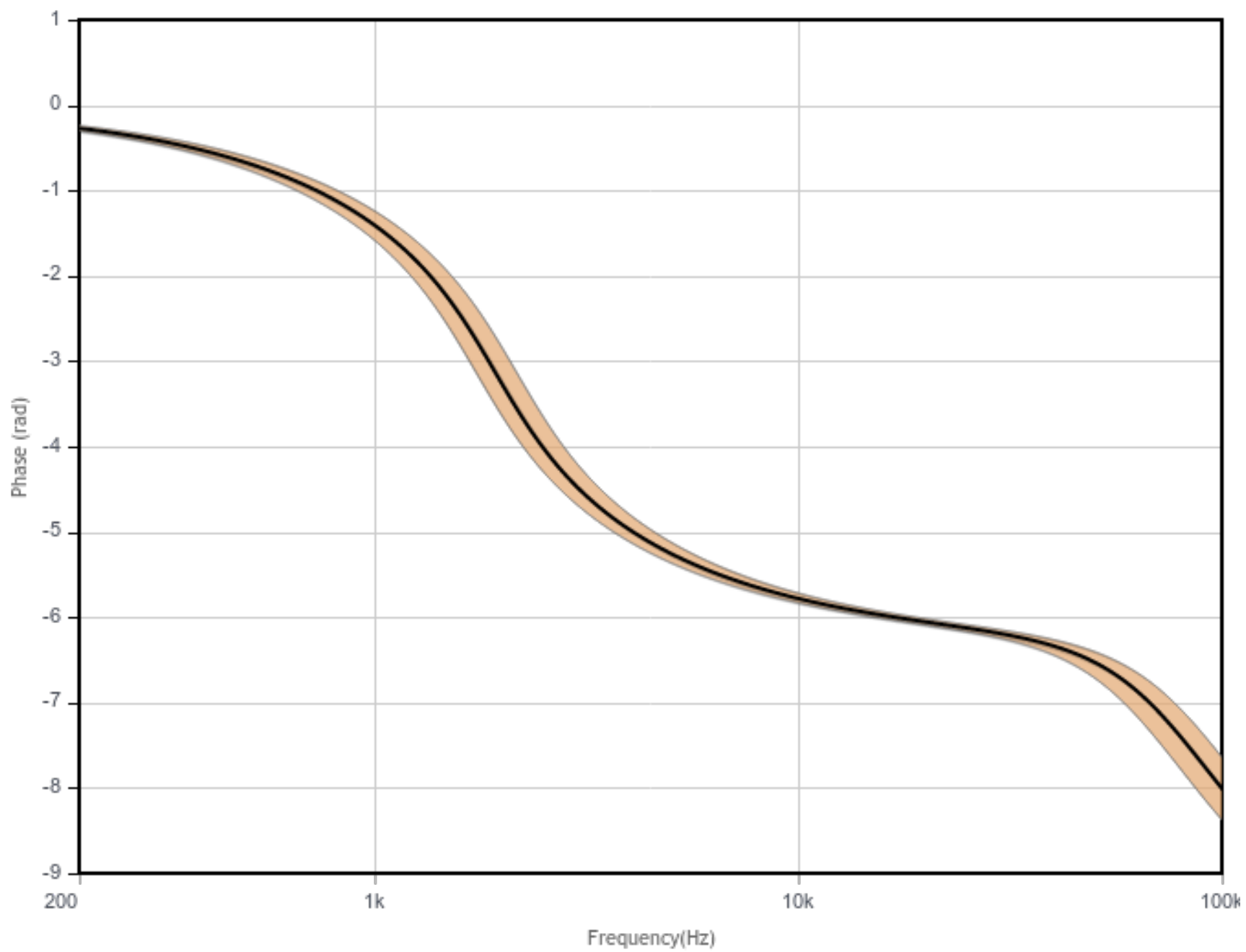
Magnitude(Volts per Volt)



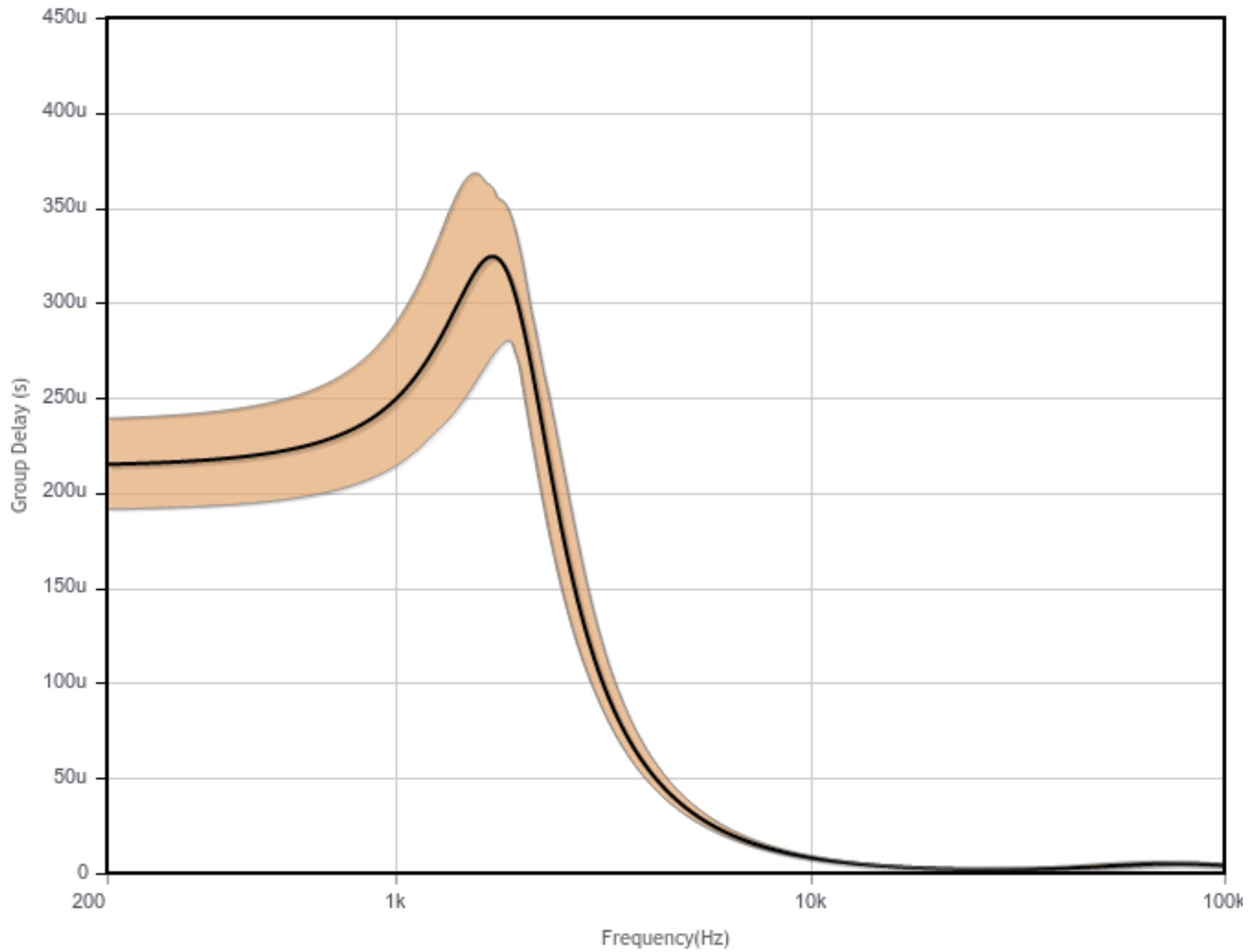
Phase(degrees)



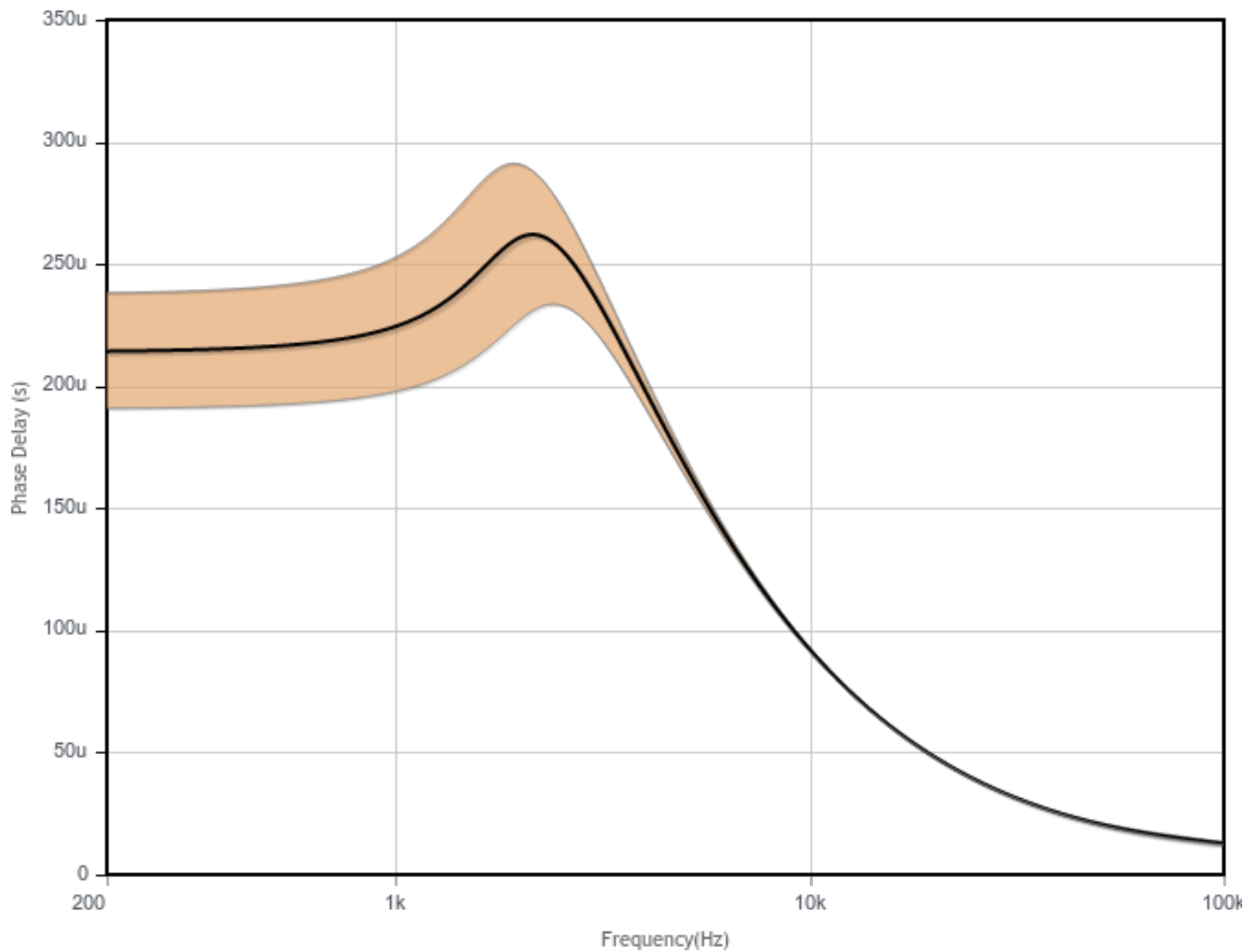
Phase(radians)



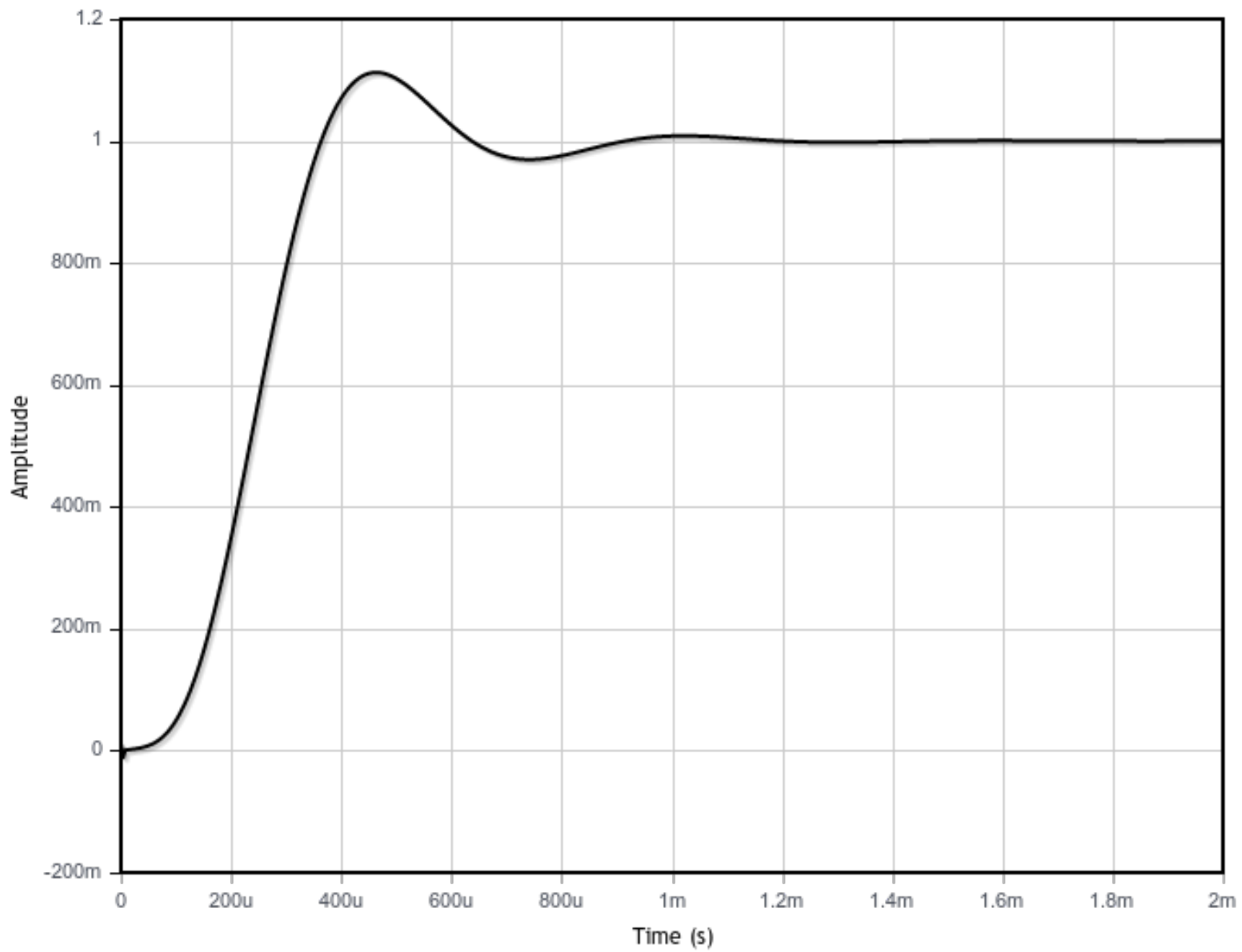
Group Delay



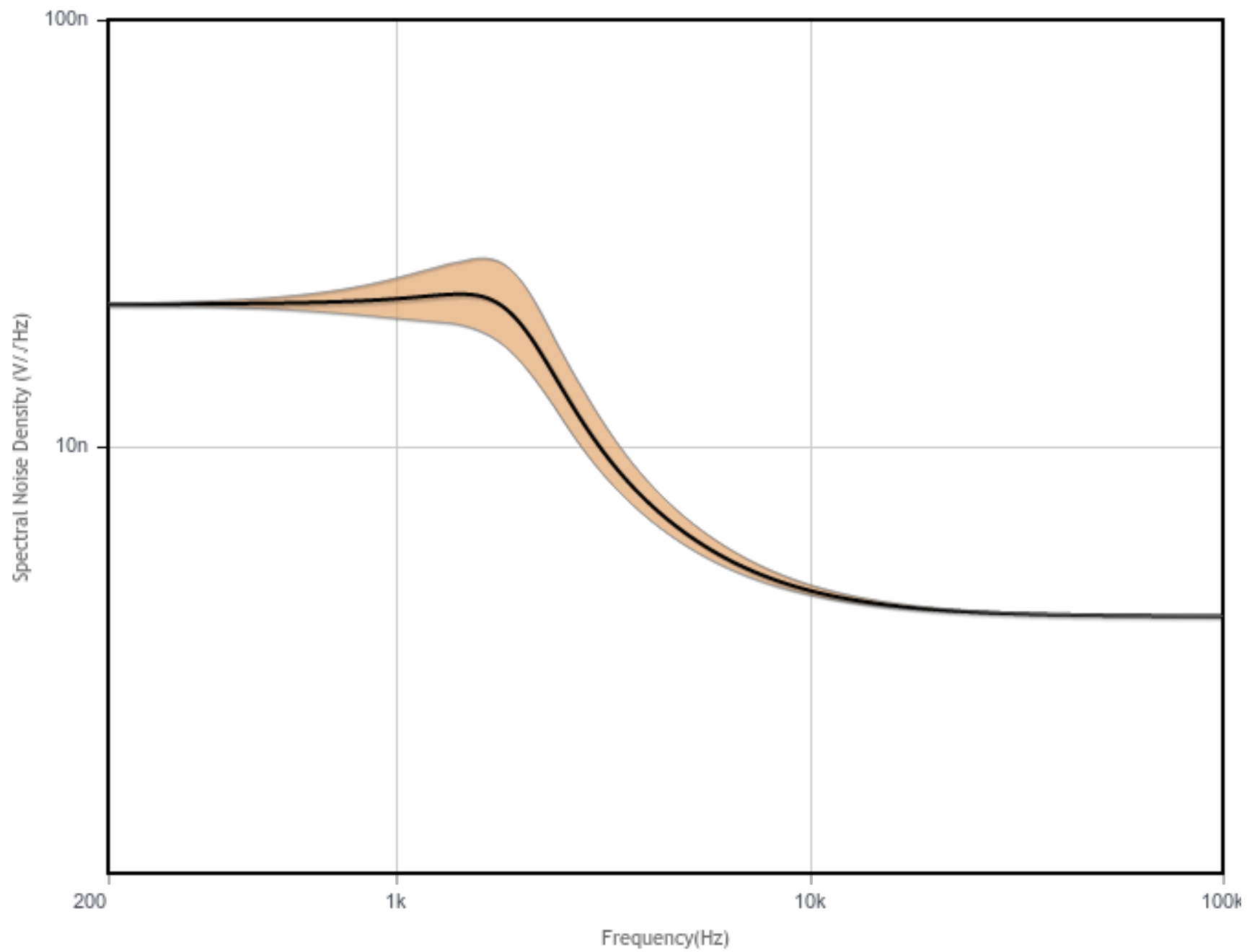
Phase Delay



Step Response



Noise



Circuit

