



## Filter Wizard

Created by Onur Efe on 12/07/2016



# Filter Wizard Design Report

Filter Requirements for Low-Pass, 8th order Butterworth

Specifications: Optimize for Noise, +Vs= 5, -Vs= 0, GBW comp

Gain: 0 dB

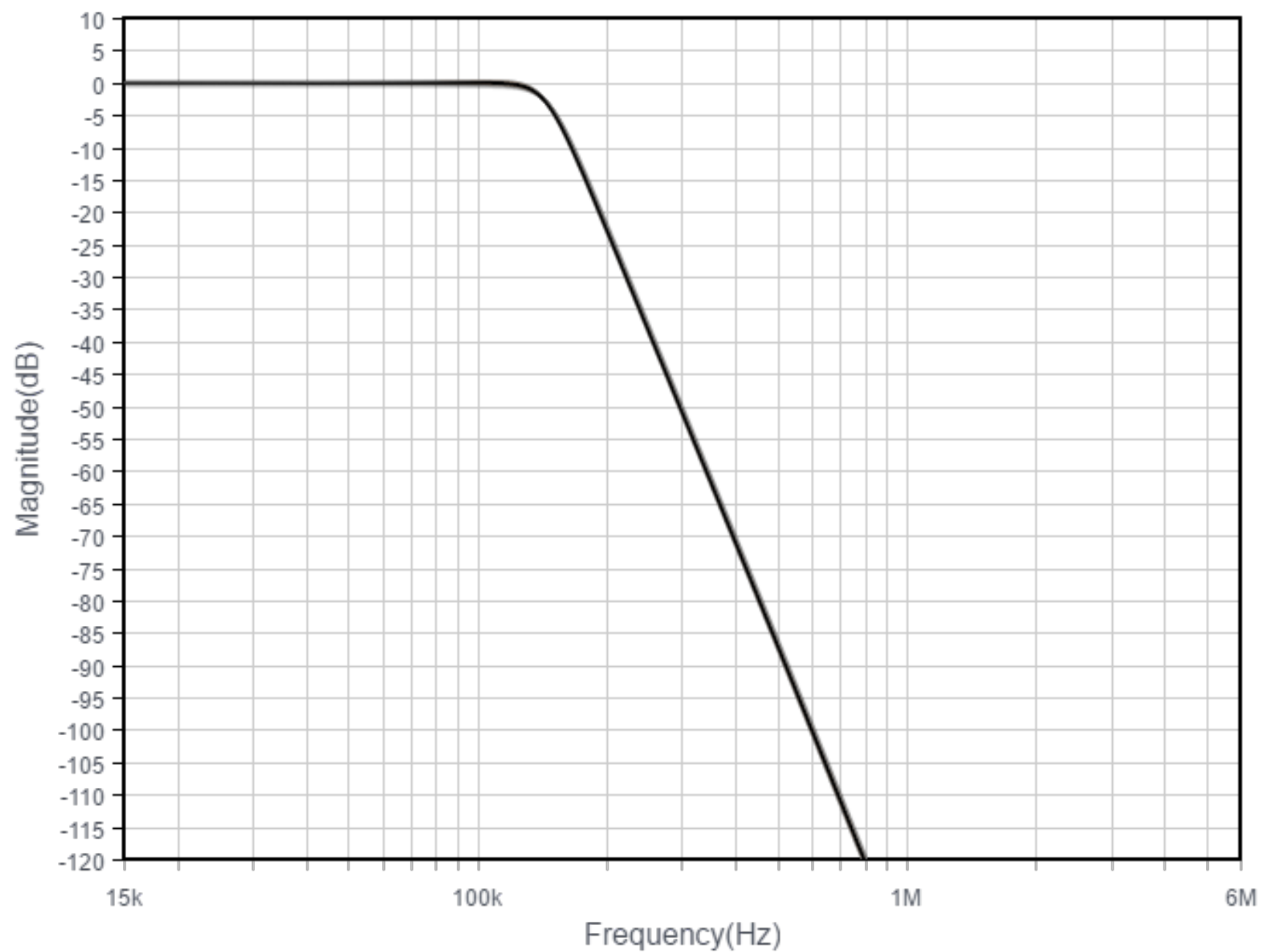
Passband: -3dB at 150kHz

Stopband: -96dB at 600kHz

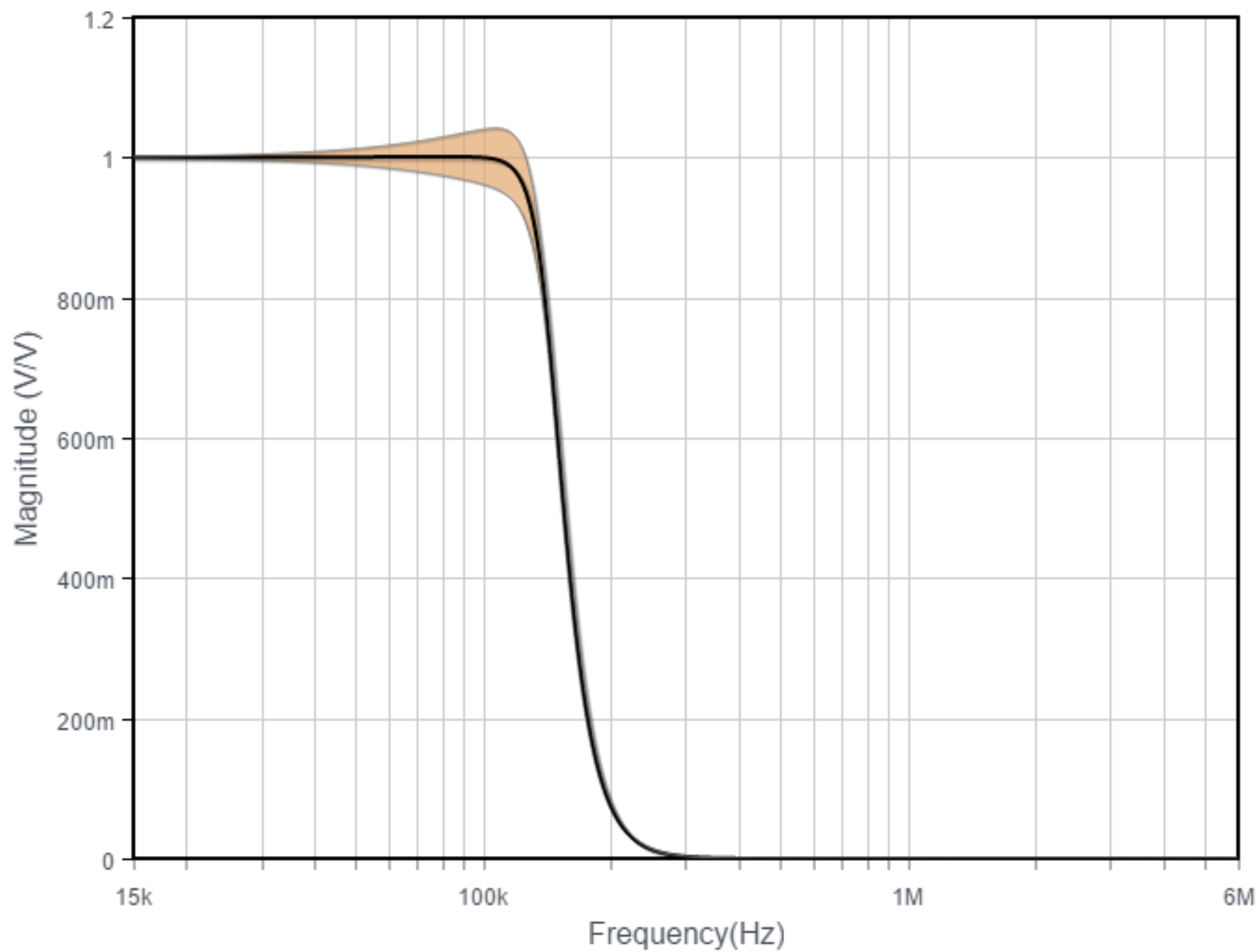
Component Tolerances: Capacitor = 1%; Resistor = 0.1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

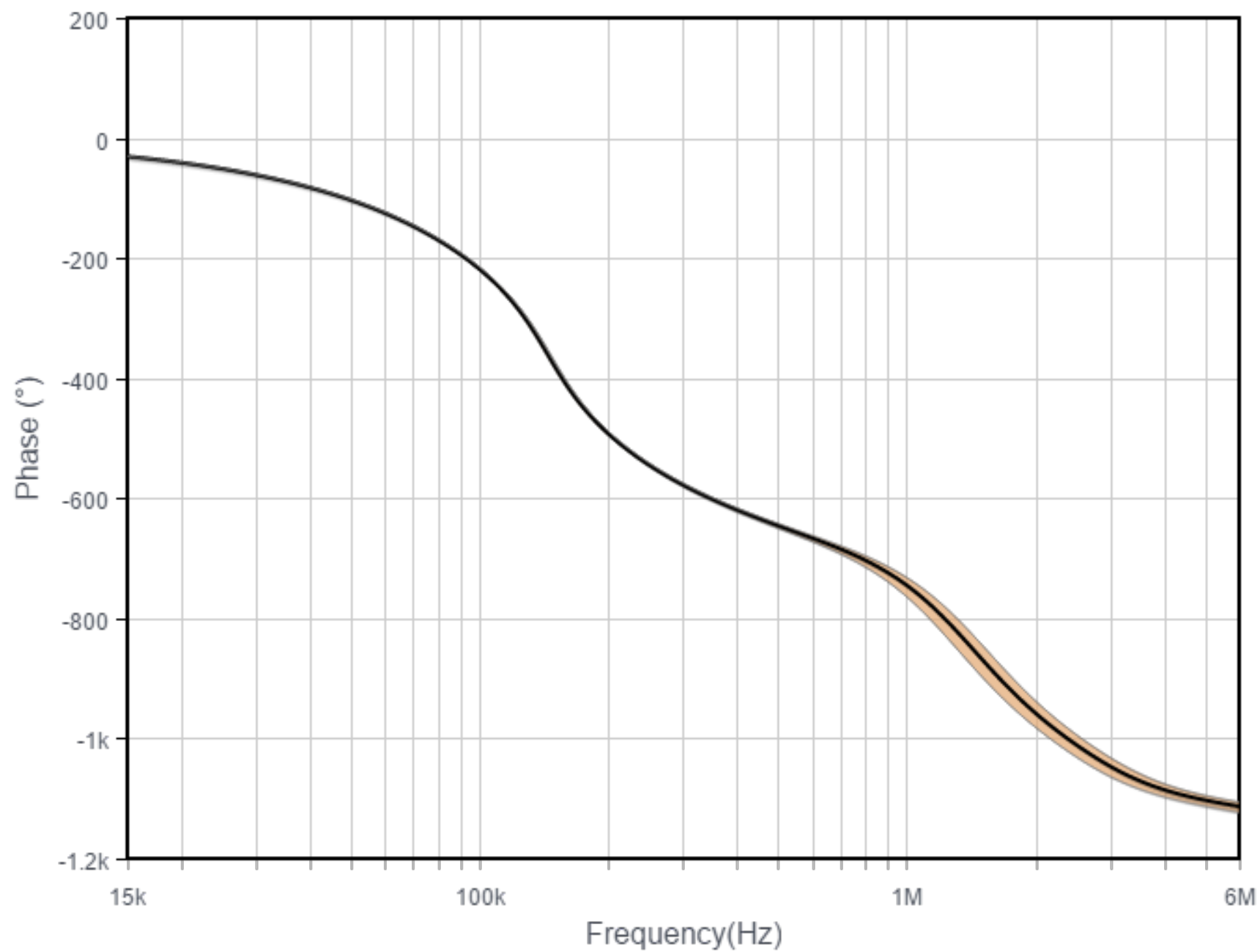
Magnitude(dB)



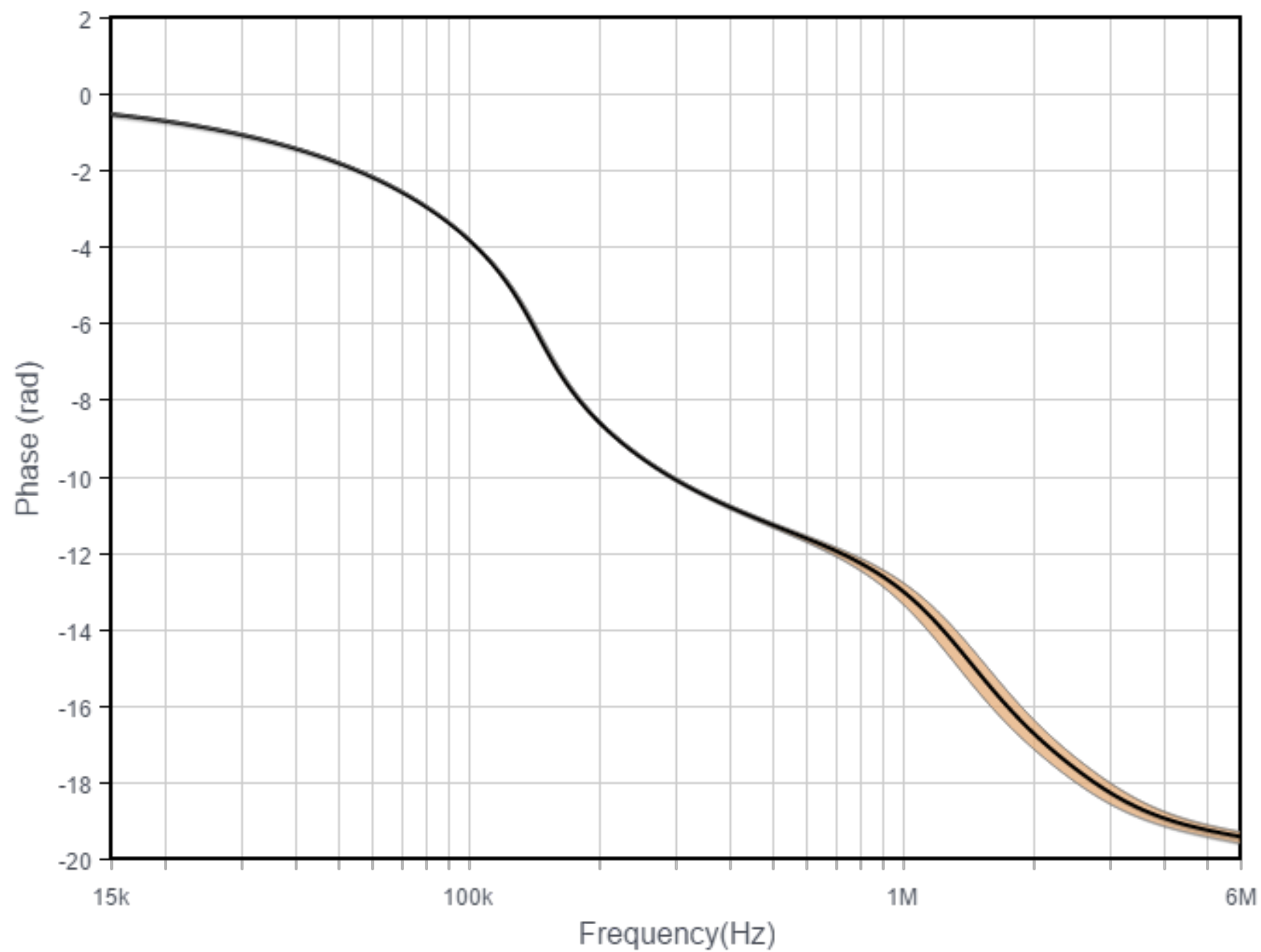
Magnitude(Volts per Volt)



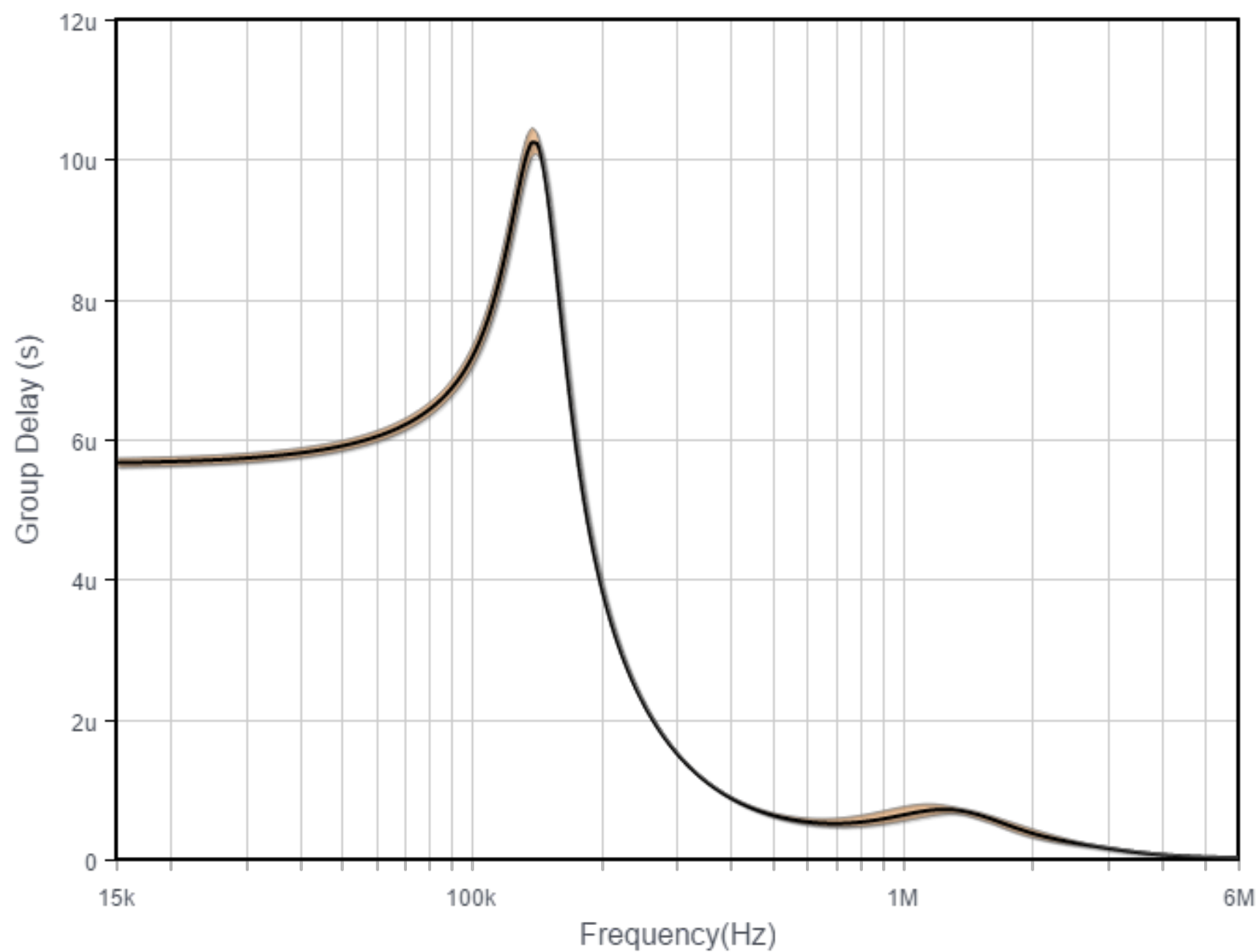
Phase(degrees)



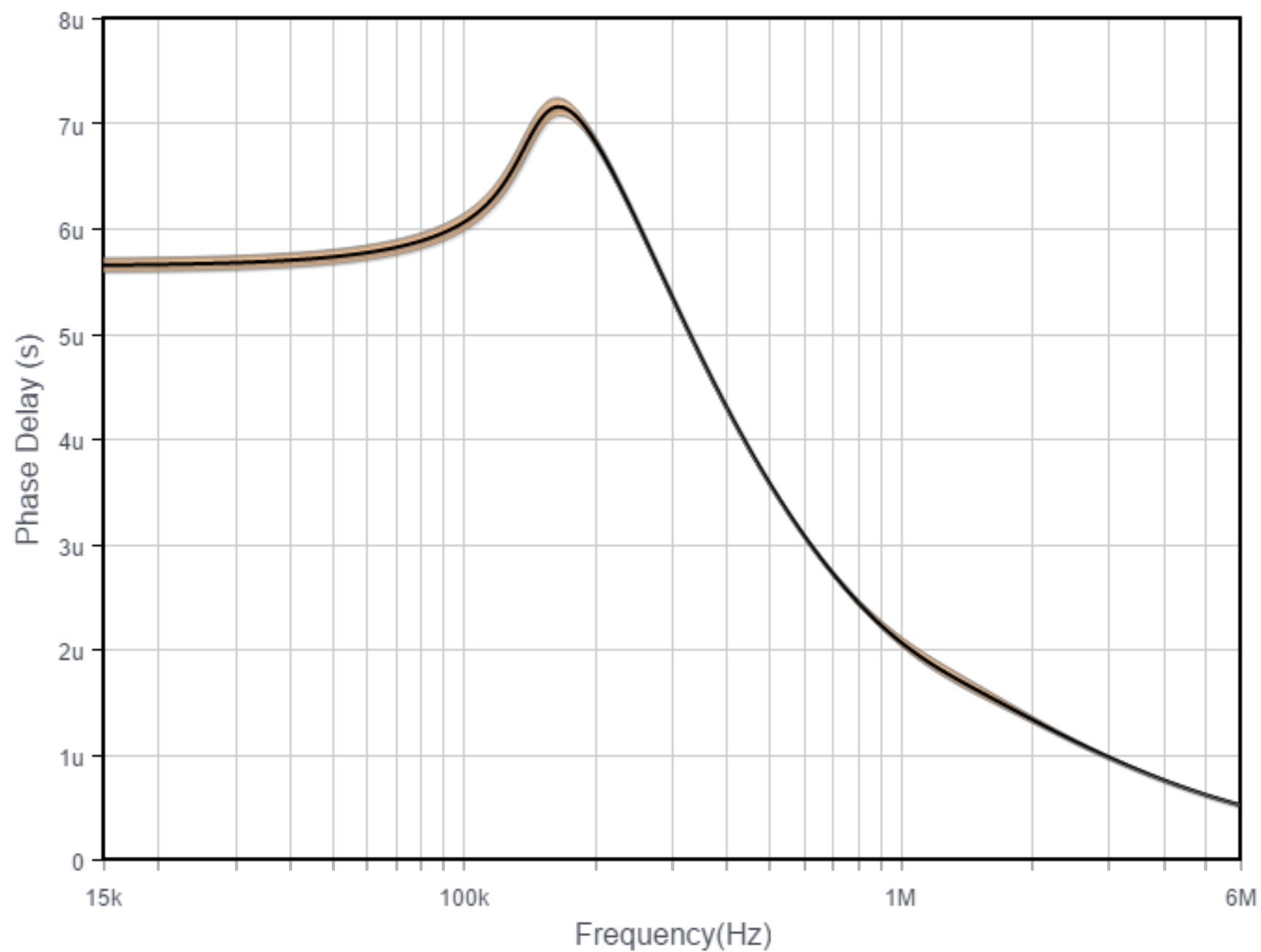
Phase(radians)



Group Delay

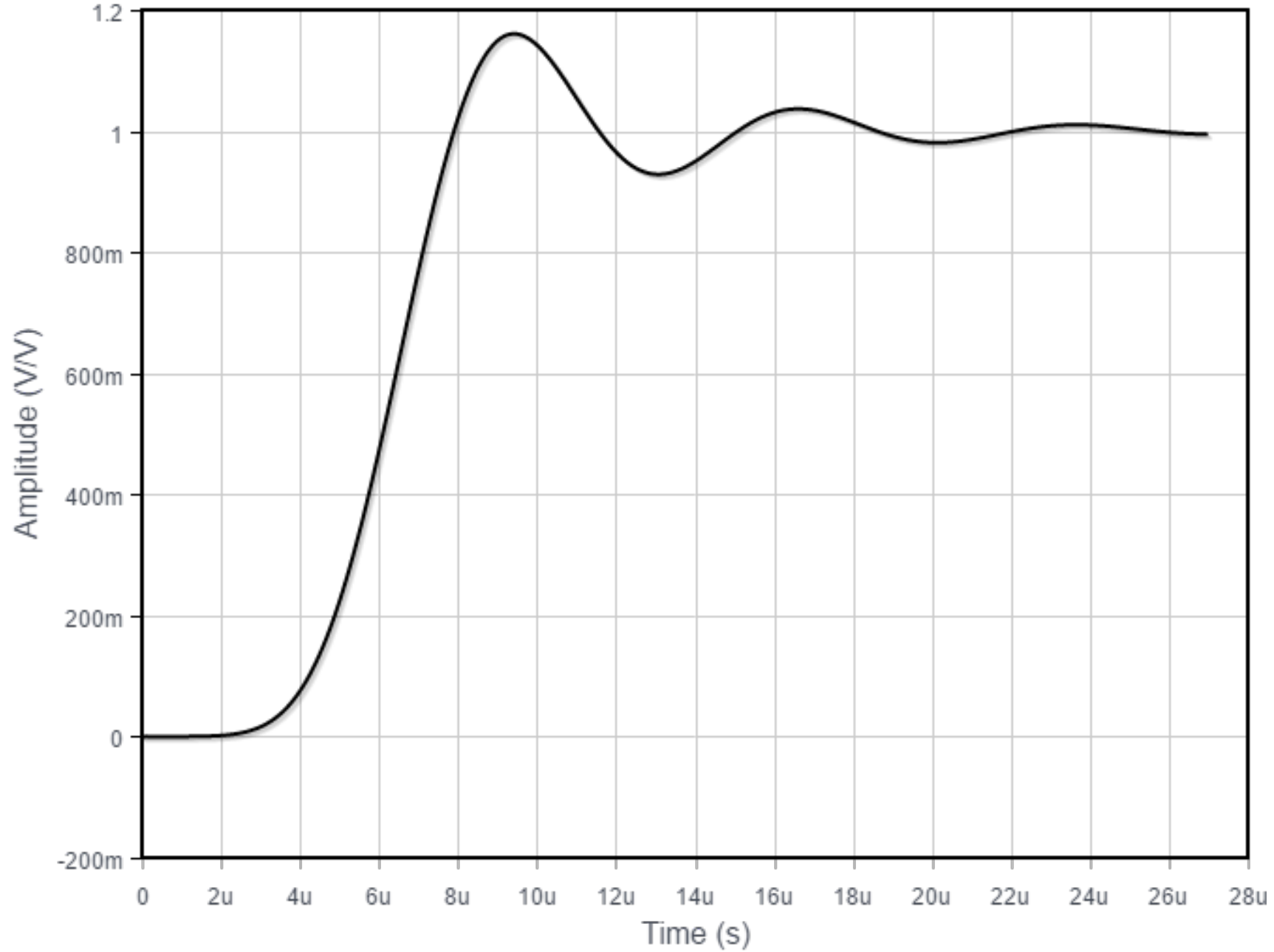


Phase Delay

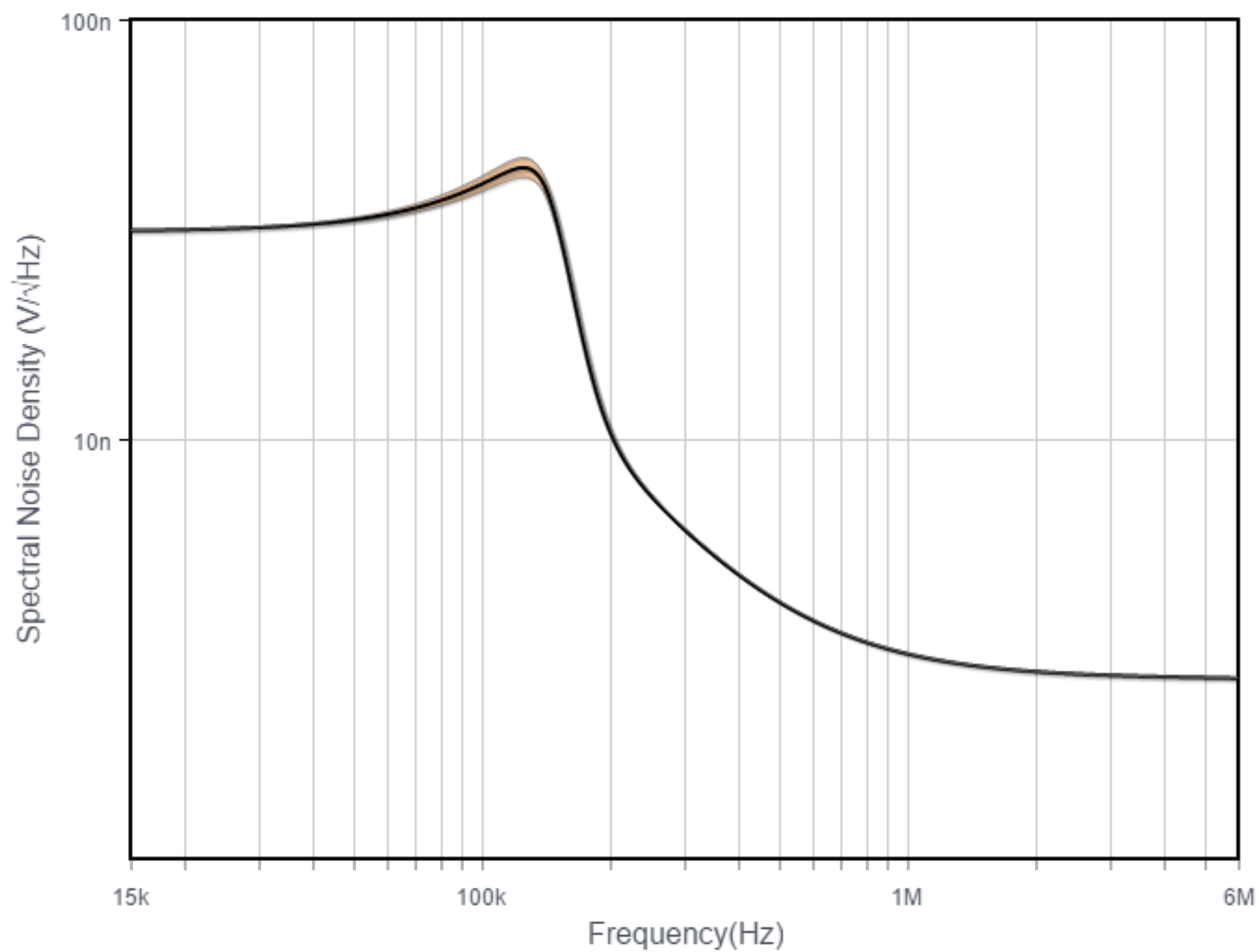




## Step Response



# Noise



# Circuit

