

Filter Wizard

Created on 5/03/2018



Filter Wizard Design Report

Filter Requirements for Low-Pass, 6th order Butterworth

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

Gain: 1 V/V

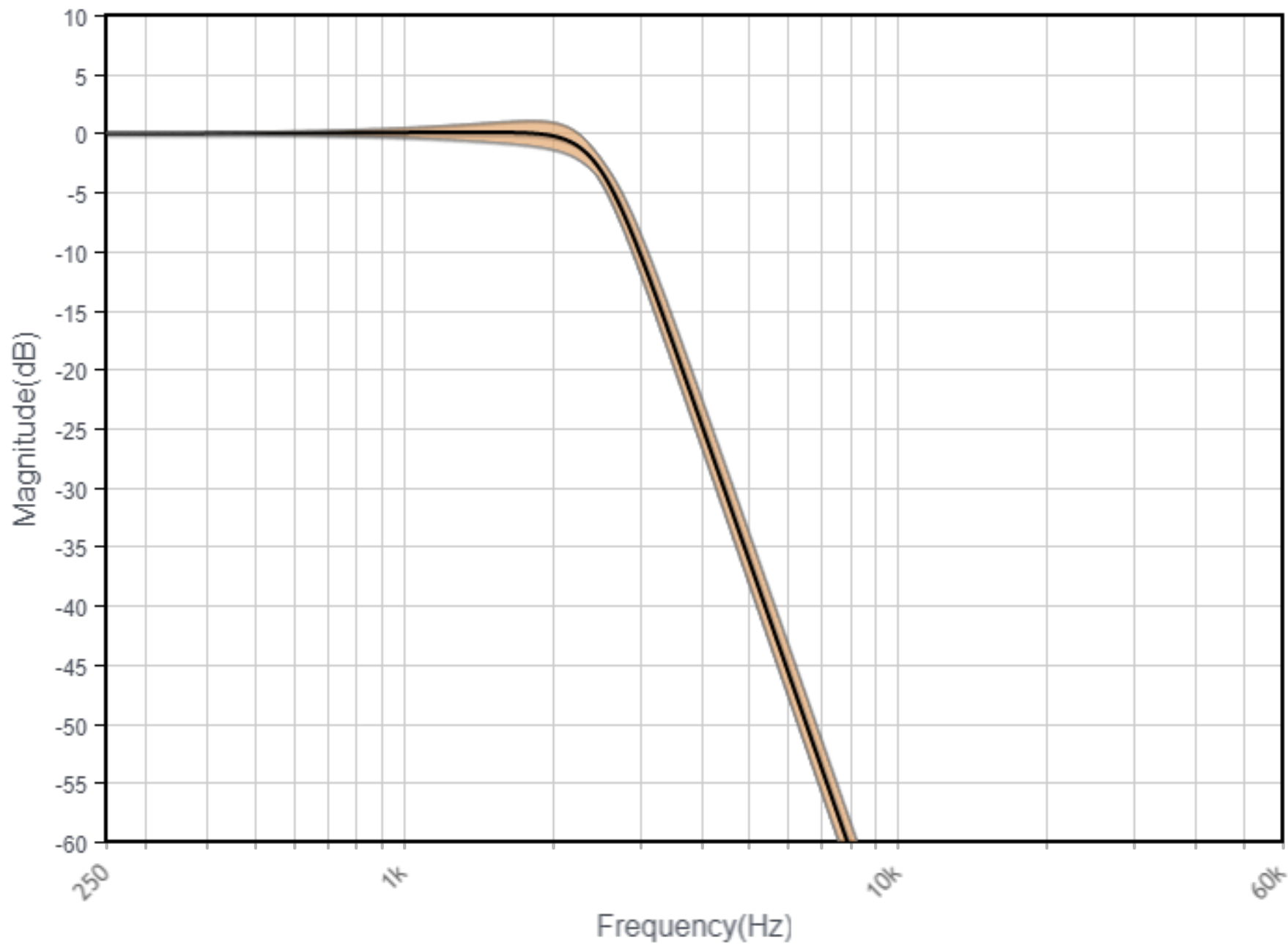
Passband: -3dB at 2.5kHz

Stopband: -40dB at 6kHz

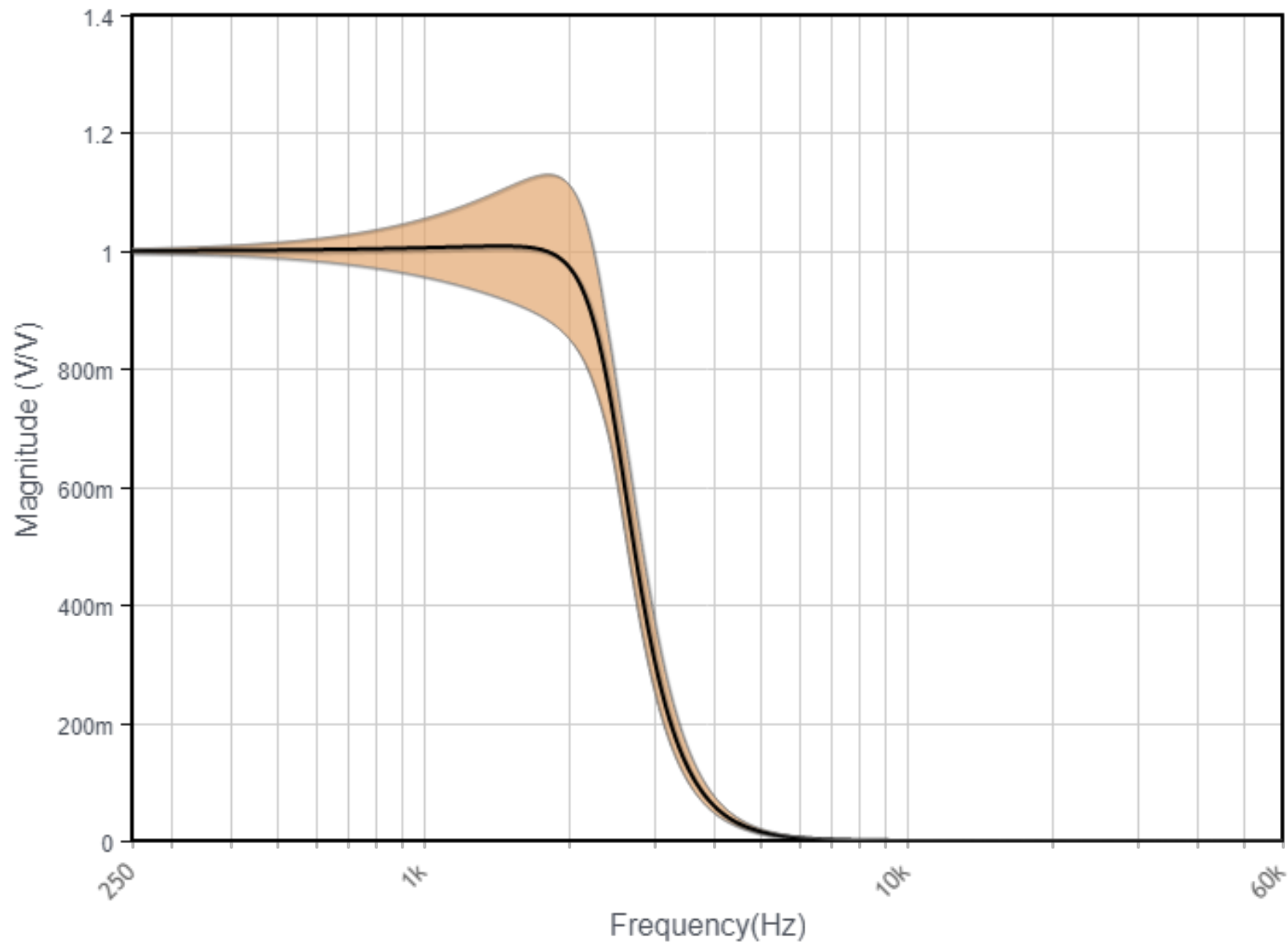
Component Tolerances: Capacitor = 1%; Resistor = 0.1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

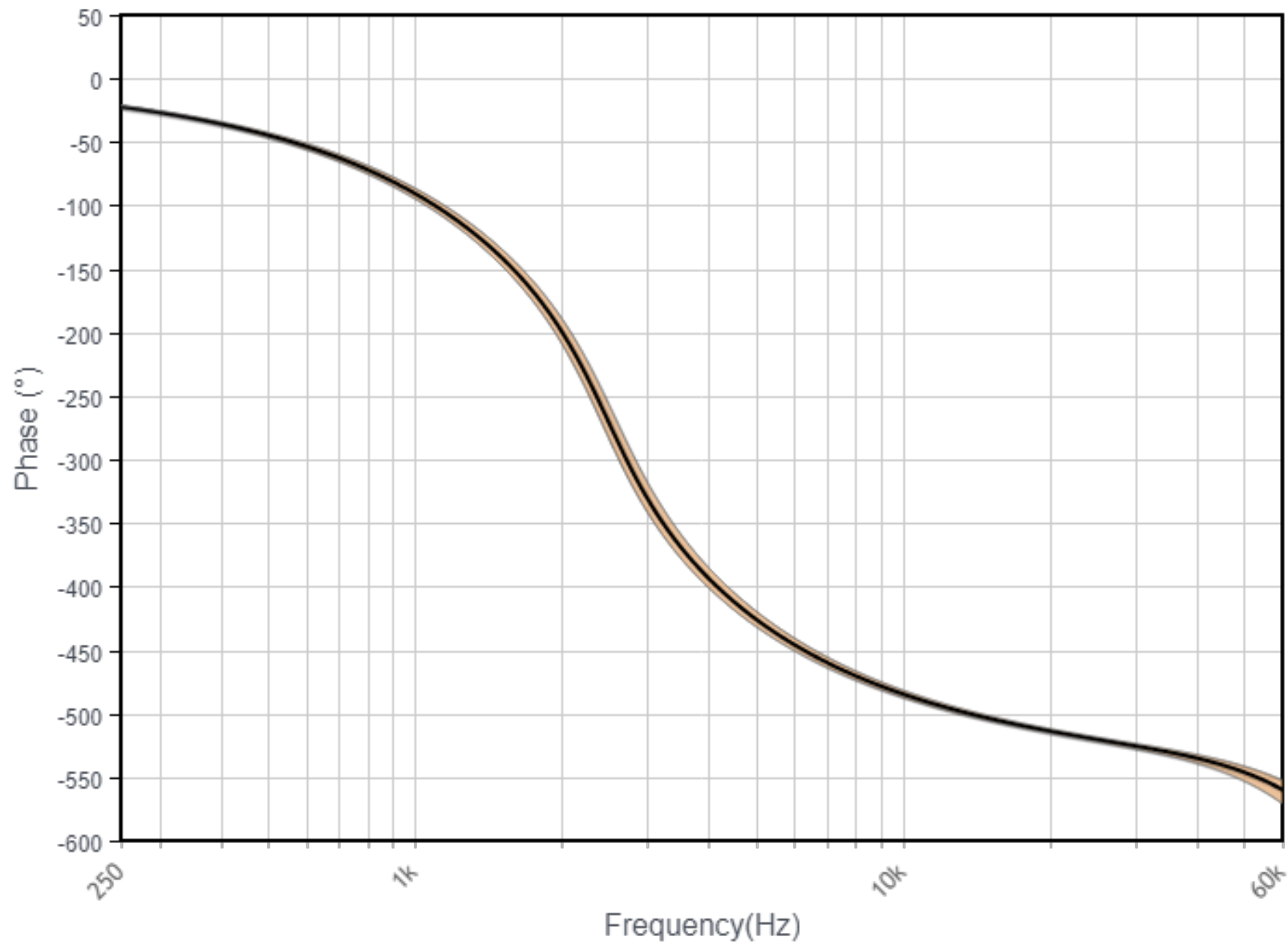
Magnitude(dB)



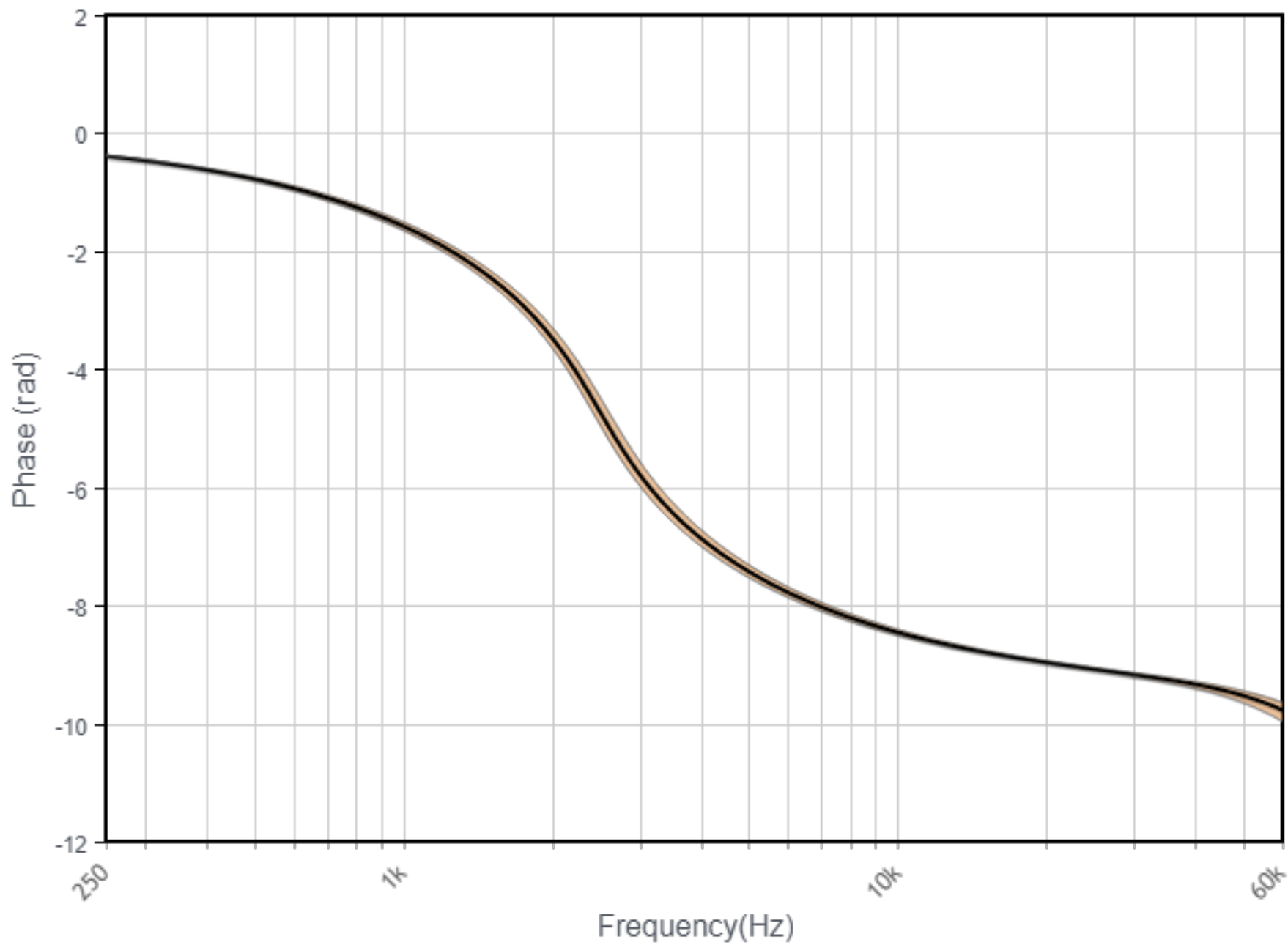
Magnitude(Volts per Volt)



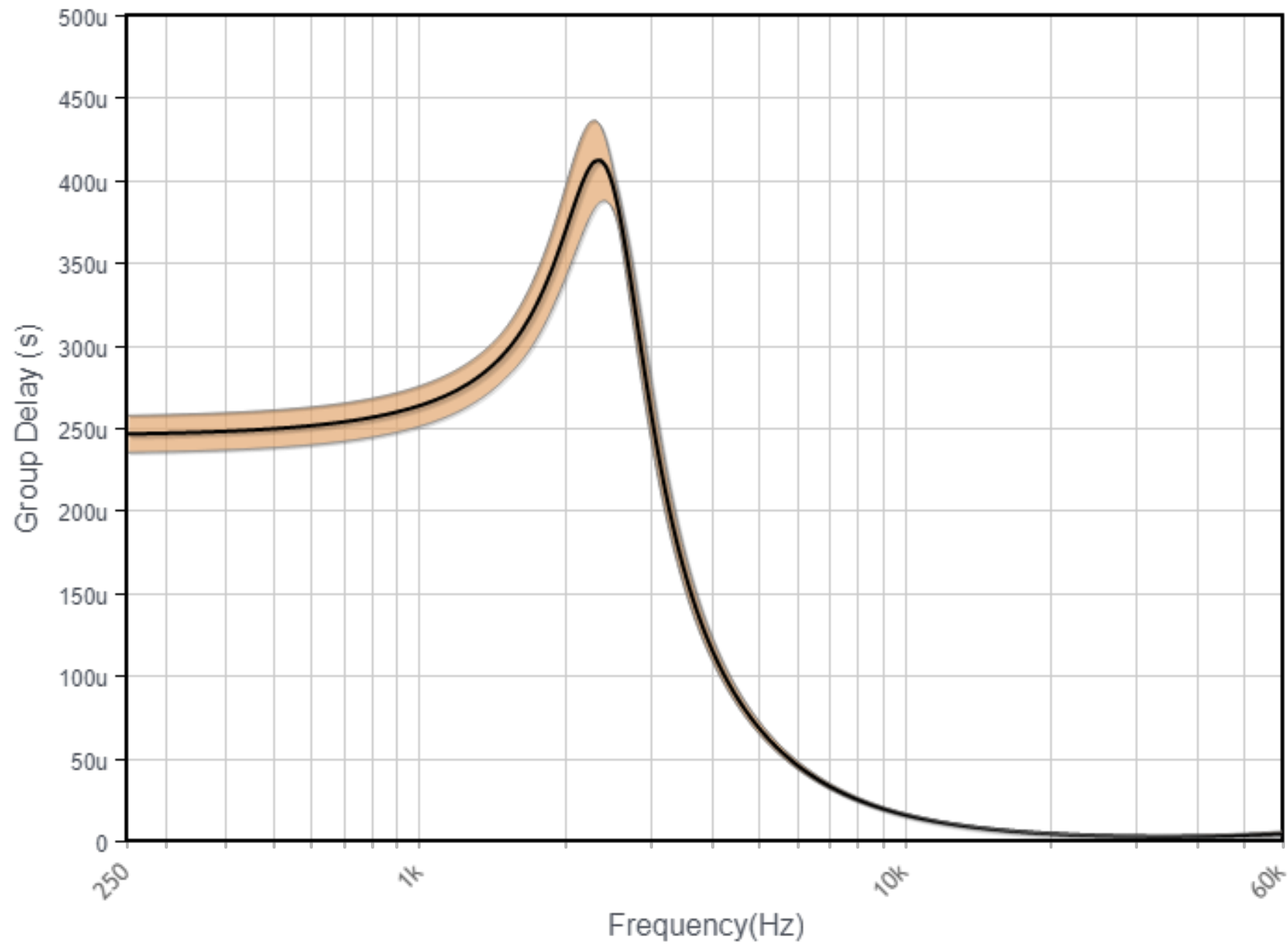
Phase(degrees)



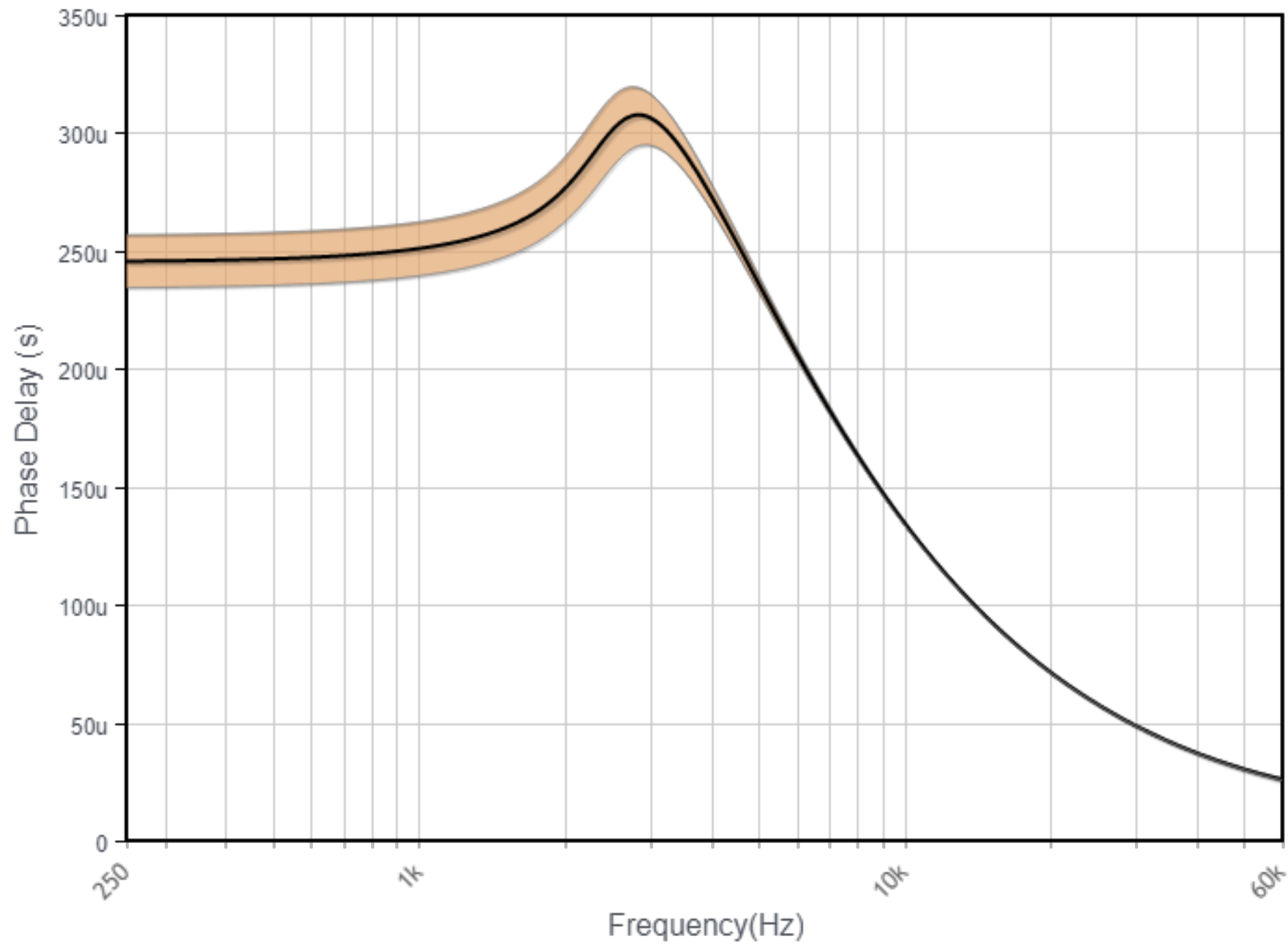
Phase(radians)



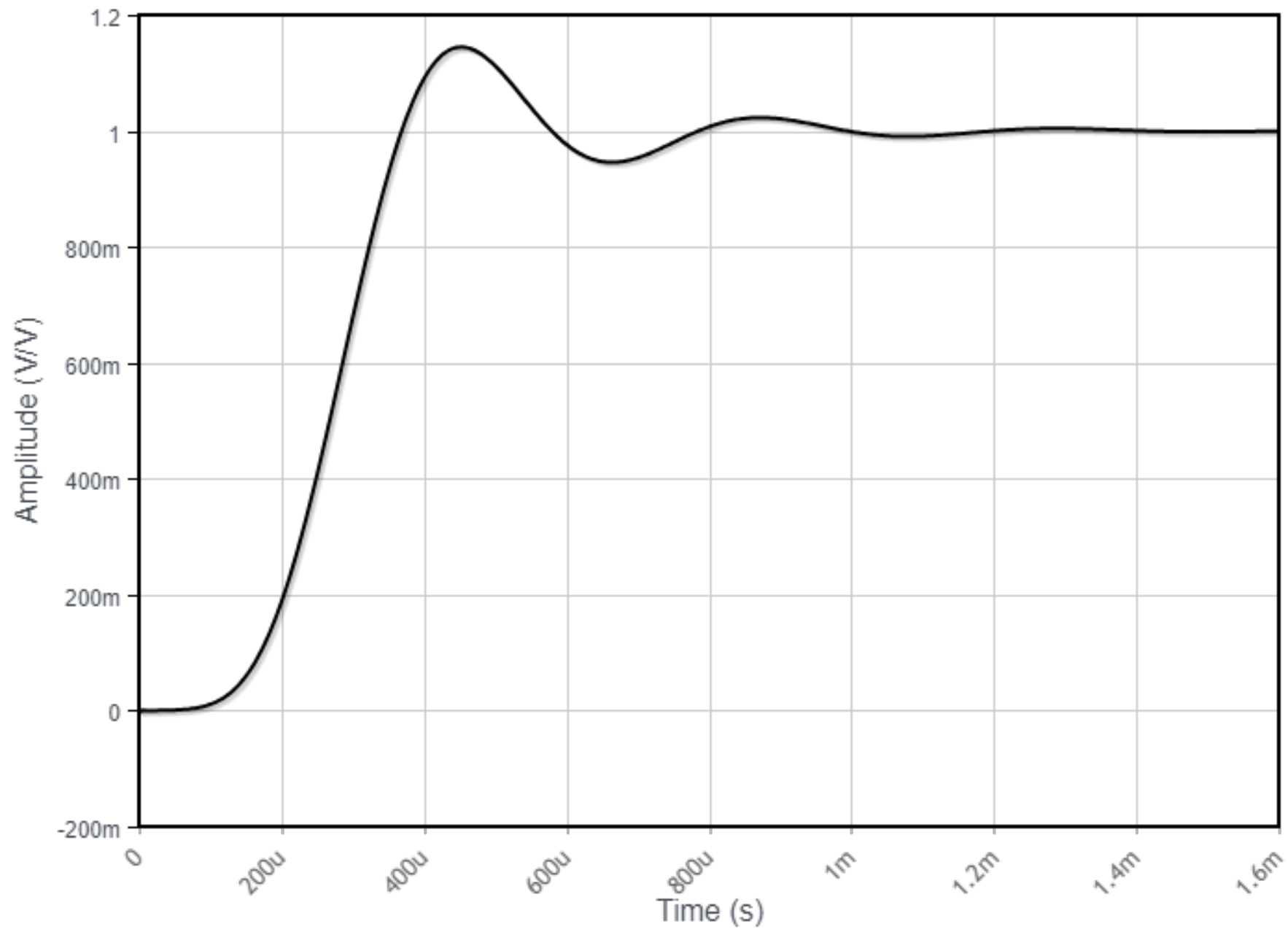
Group Delay



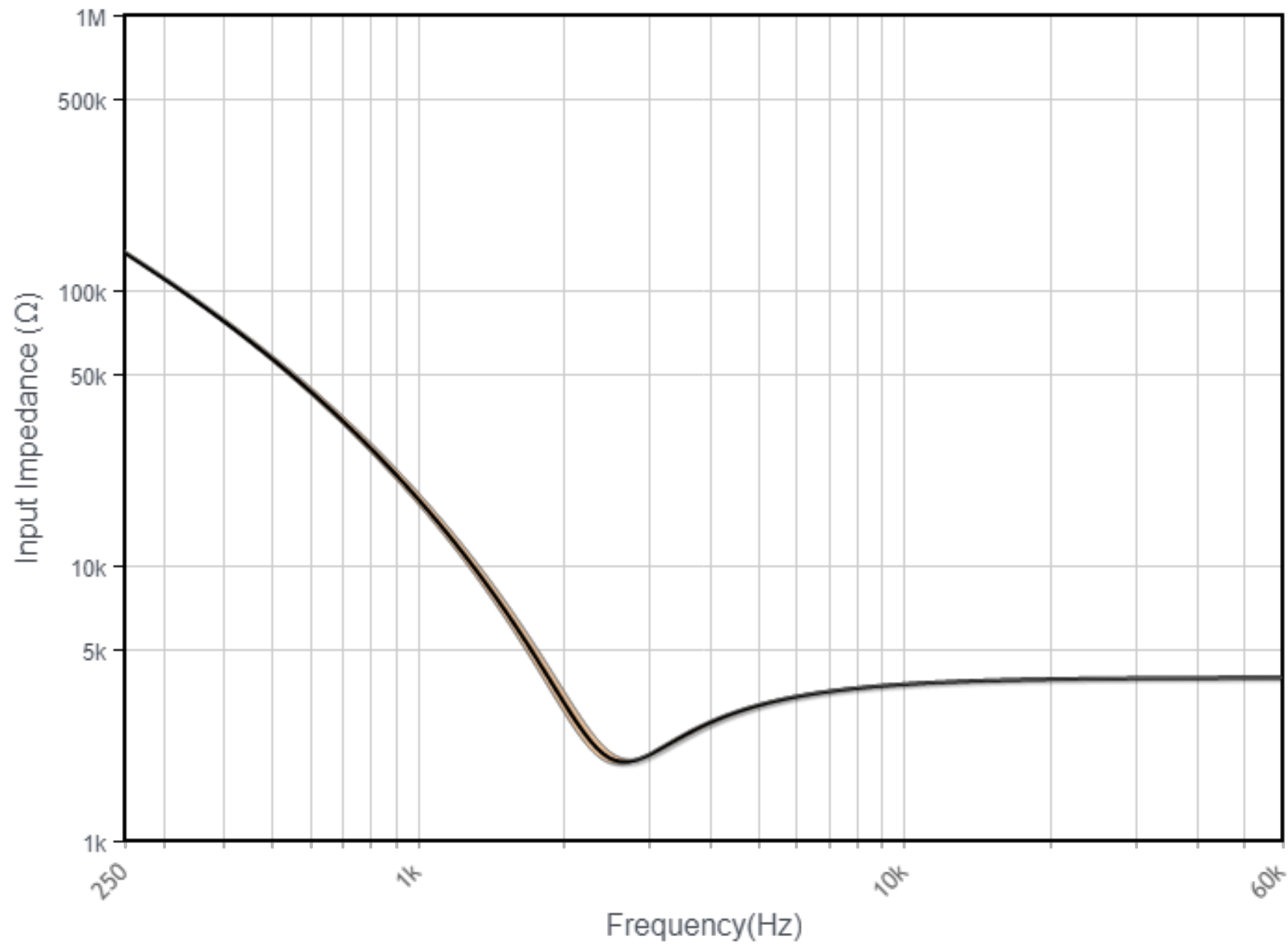
Phase Delay



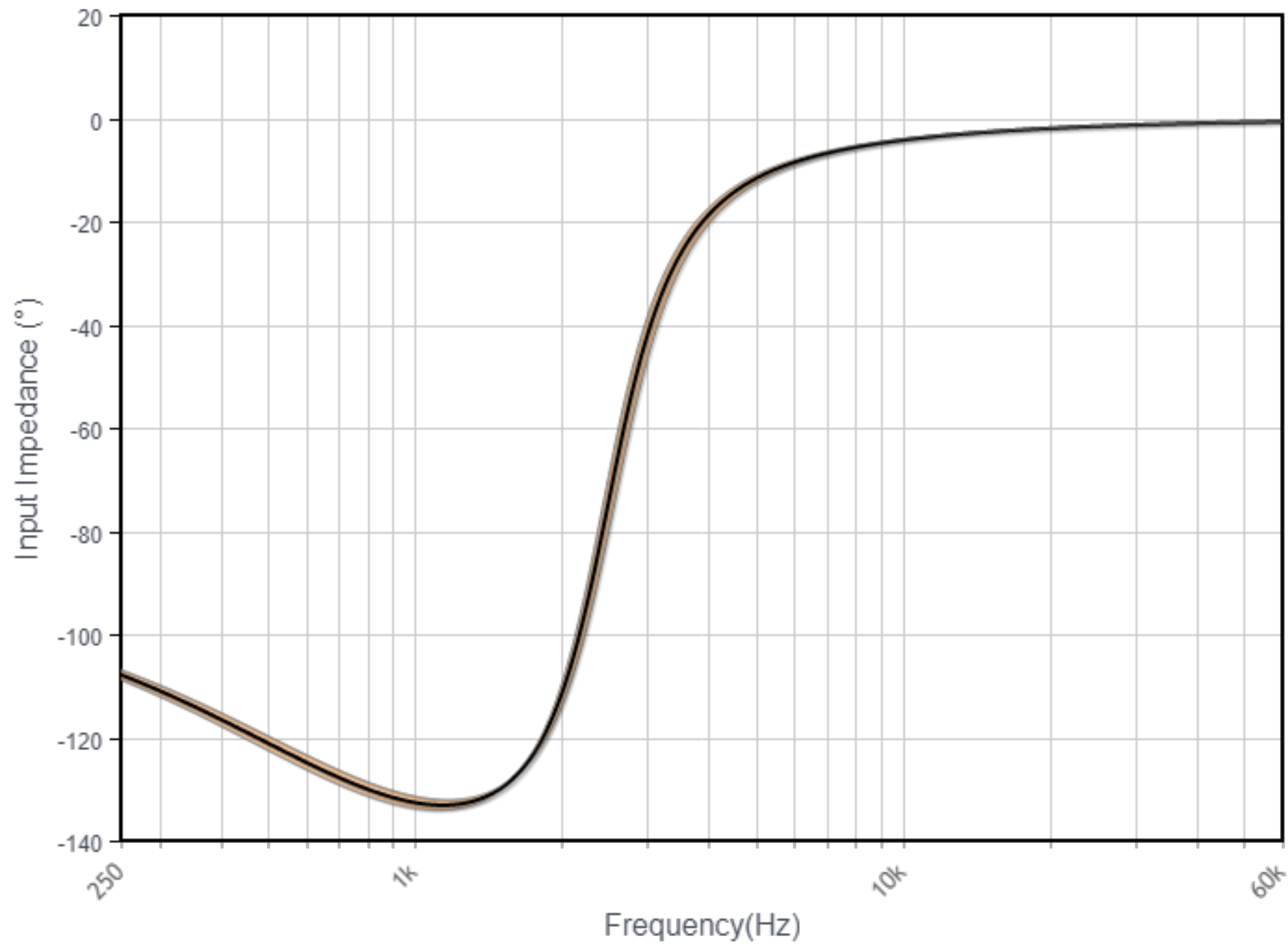
Step Response



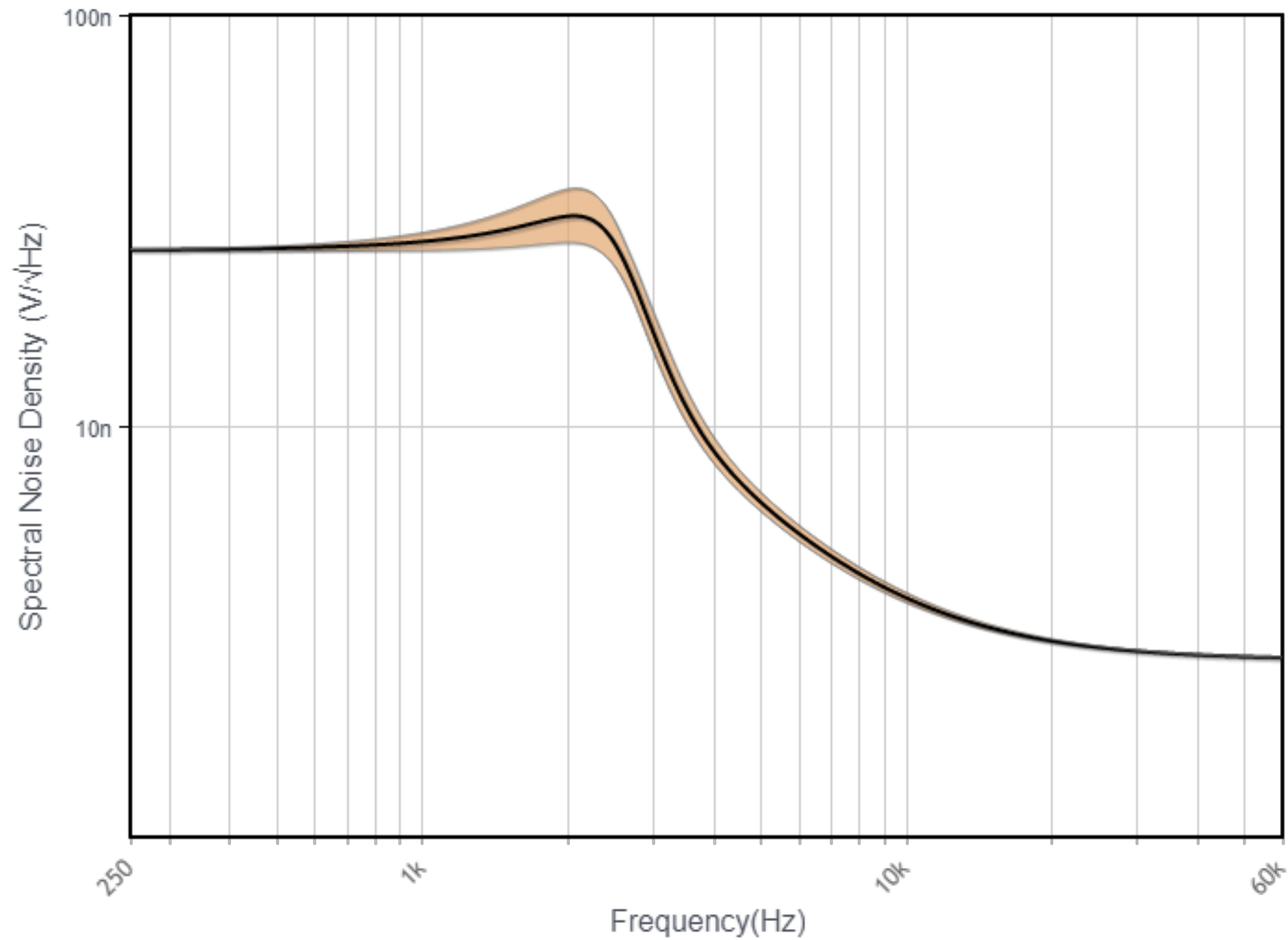
Input Impedance Magnitude



Input Impedance Phase



Noise



Circuit

