



Filter Wizard

Created by Filip Mivalt on 5/15/2017



Filter Wizard Design Report

Filter Requirements for Low-Pass, 7th order Butterworth

Specifications: Optimize for Power, $+V_s = 9$, $-V_s = -9$, GBW comp

Gain: 0 dB

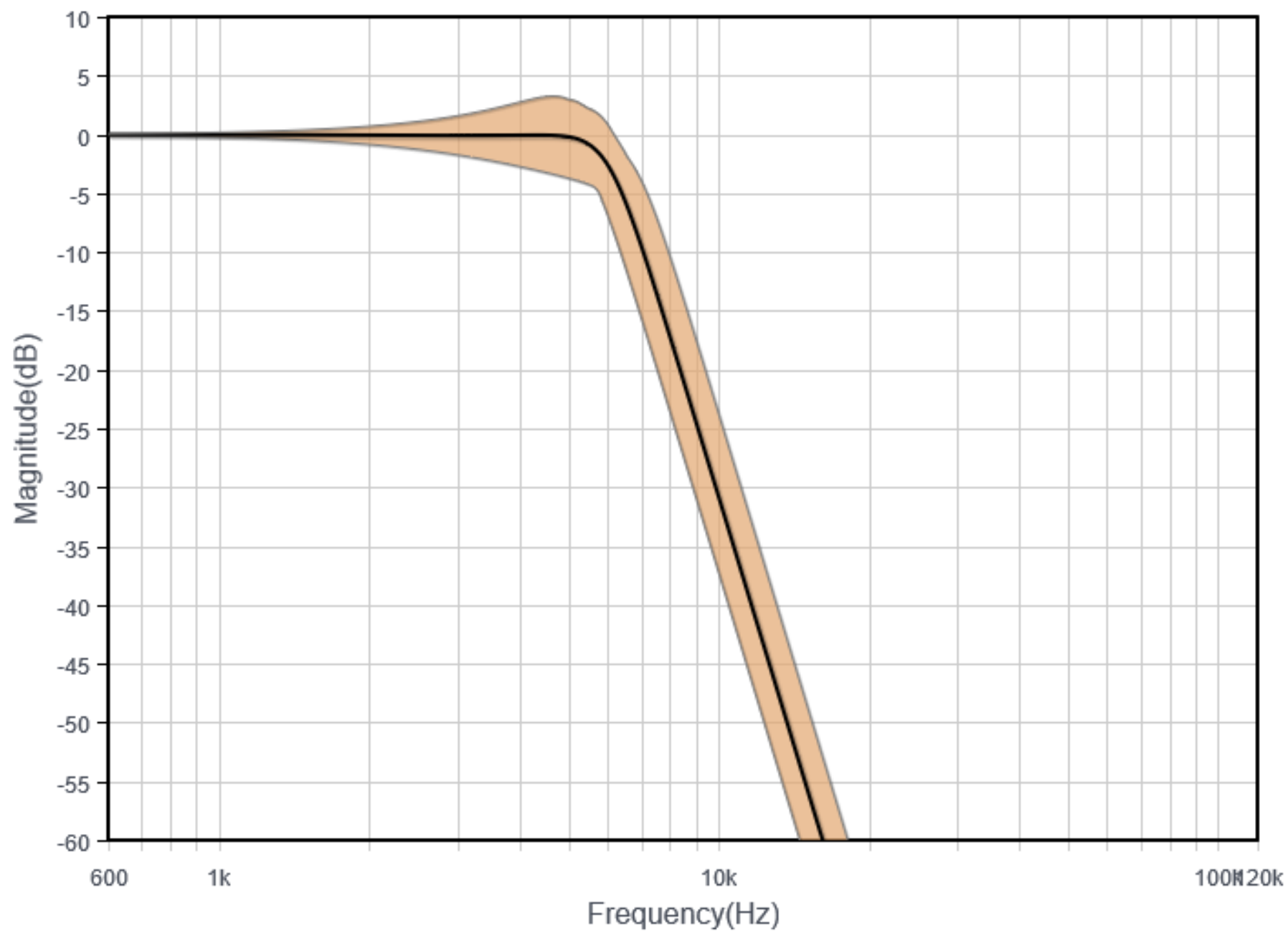
Passband: -3dB at 6kHz

Stopband: -40dB at 12kHz

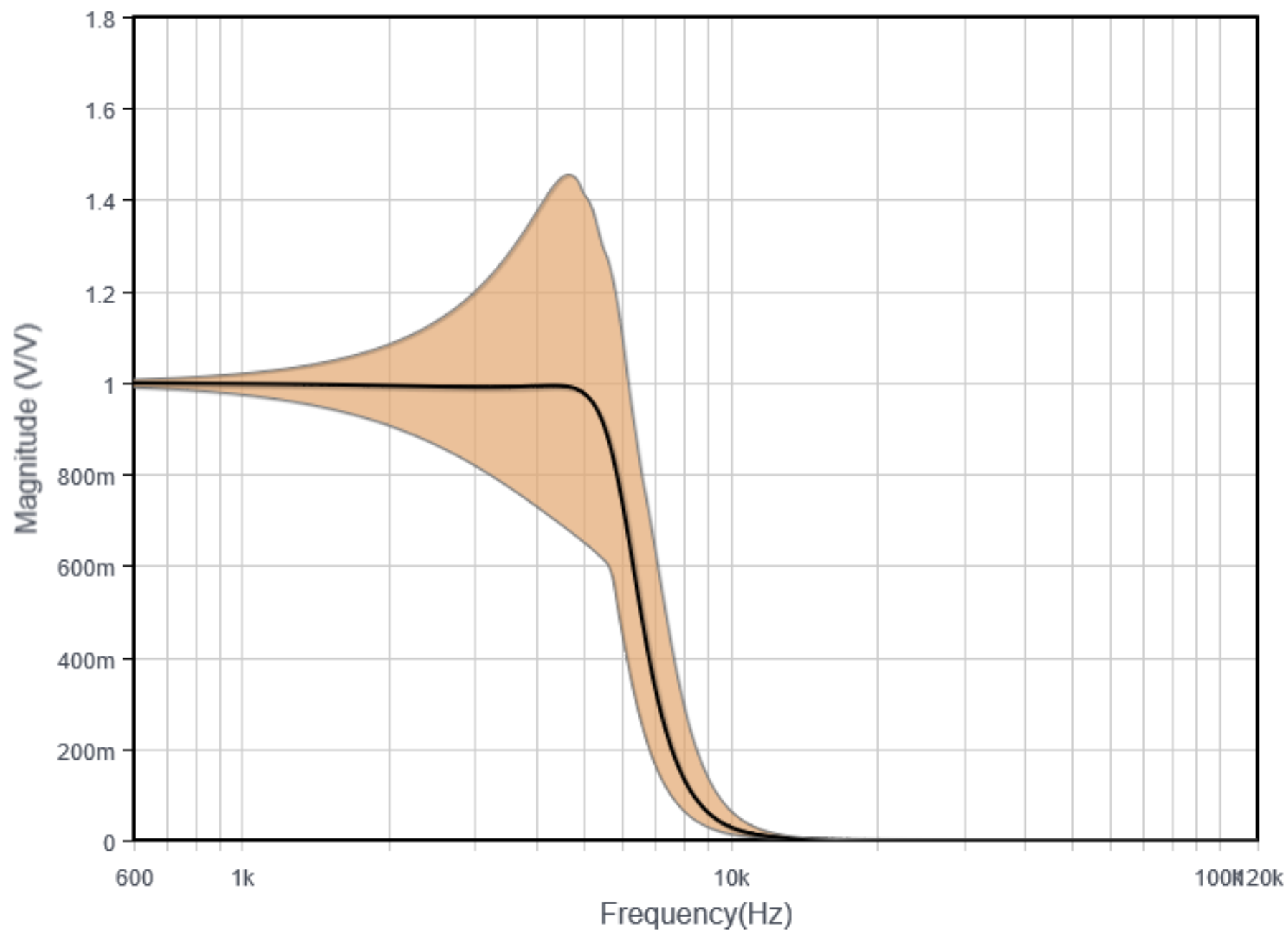
Component Tolerances: Capacitor = 10%; Resistor = 1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

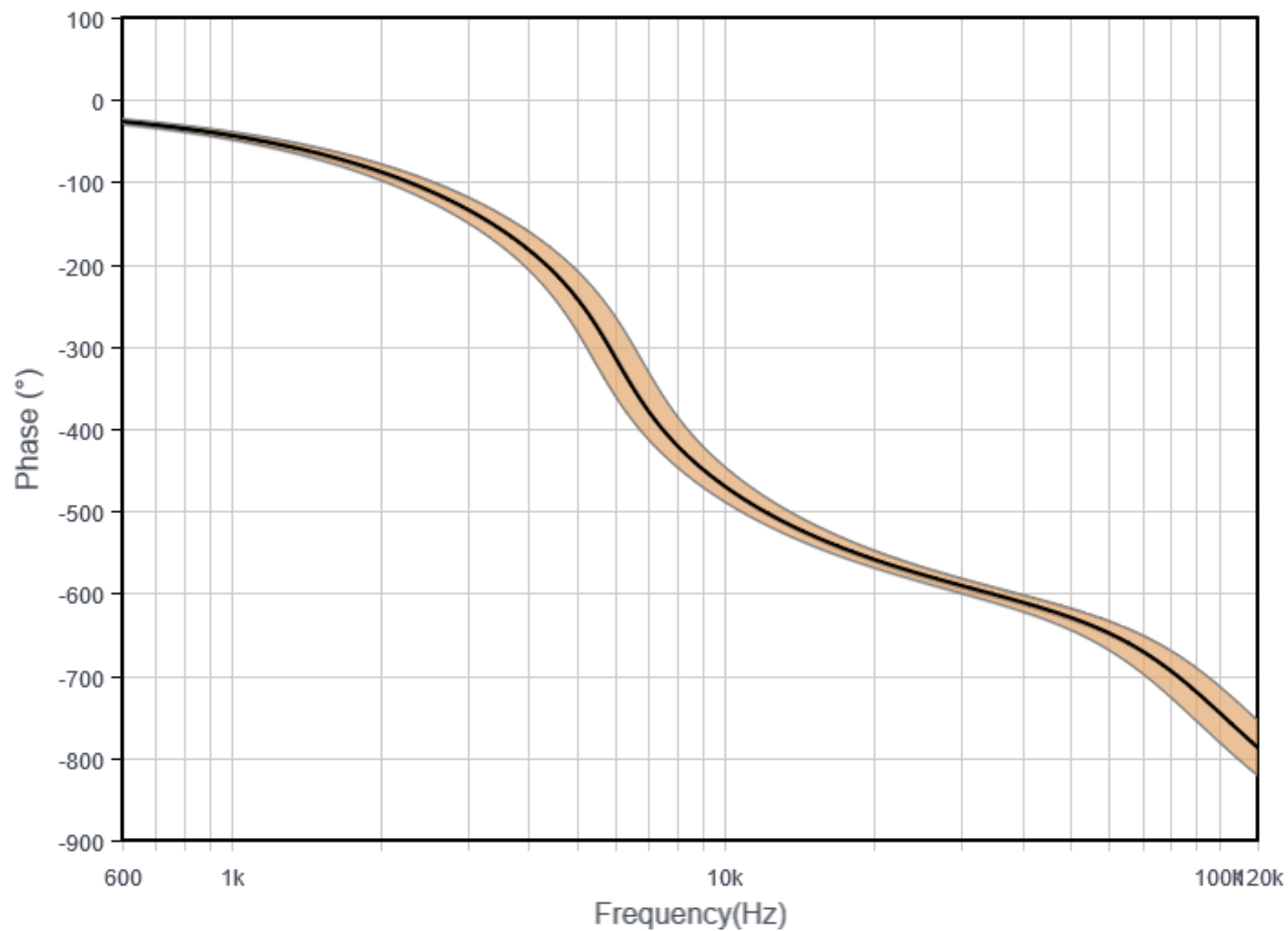
Magnitude(dB)



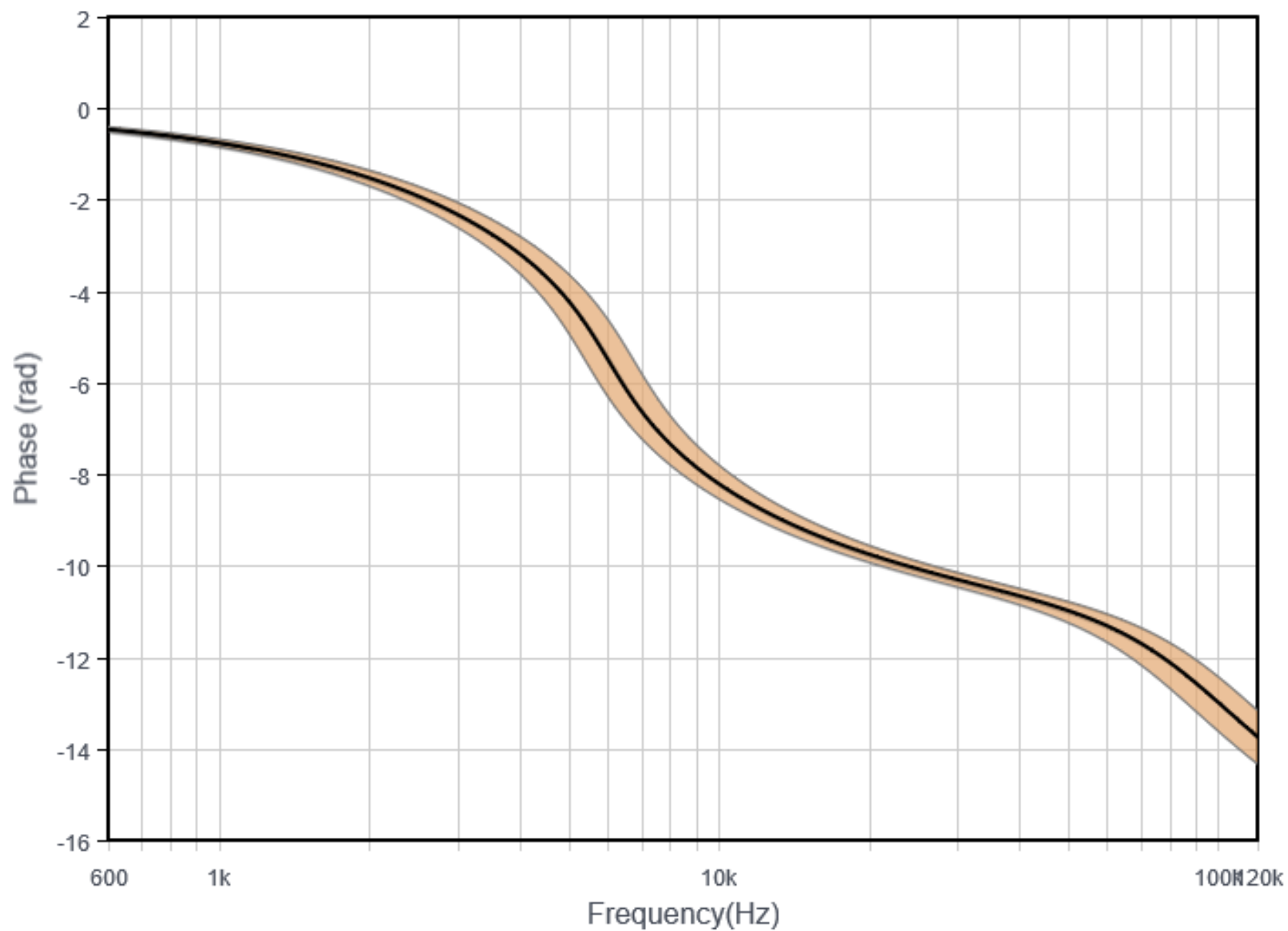
Magnitude(Volts per Volt)



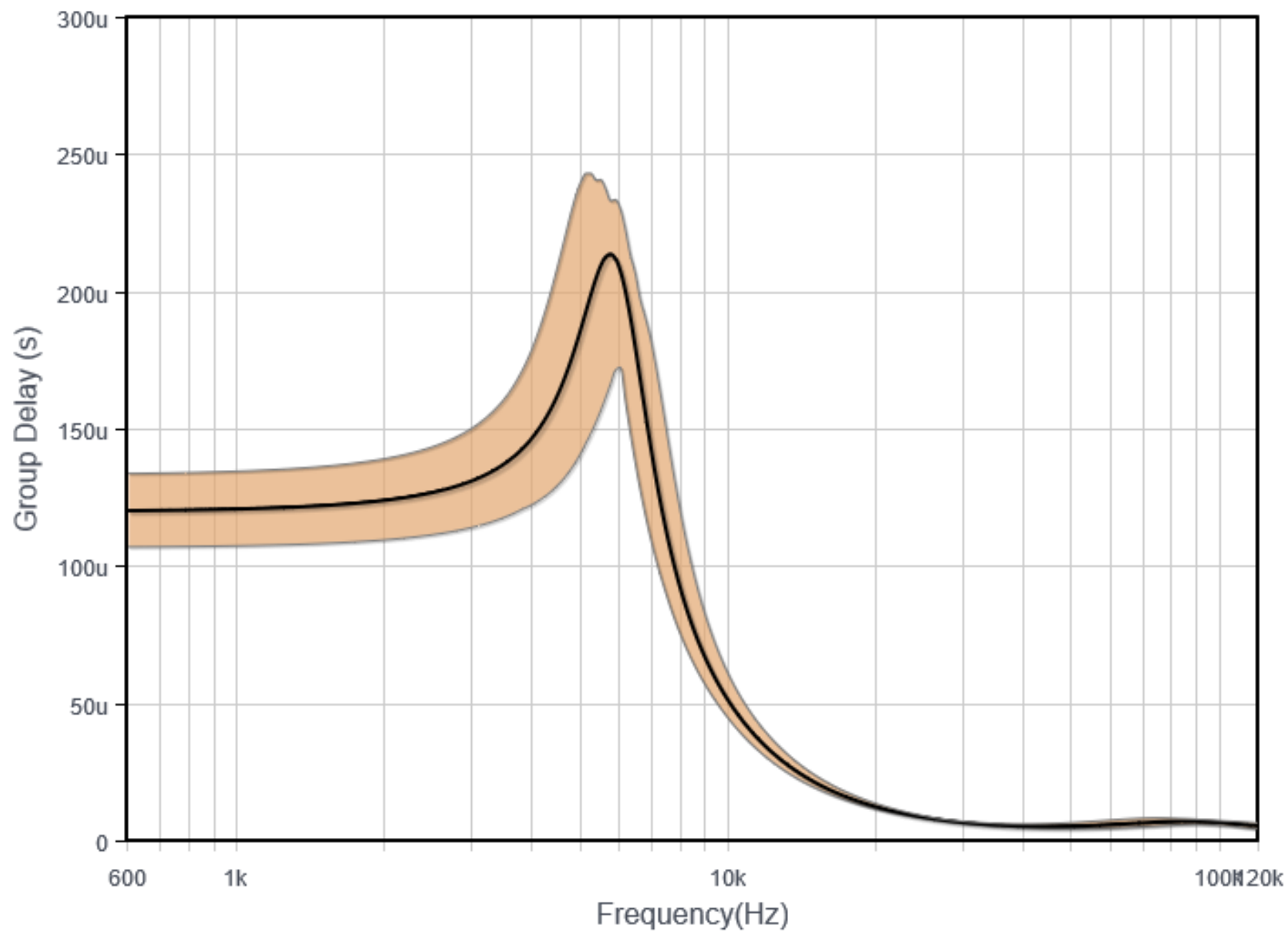
Phase(degrees)



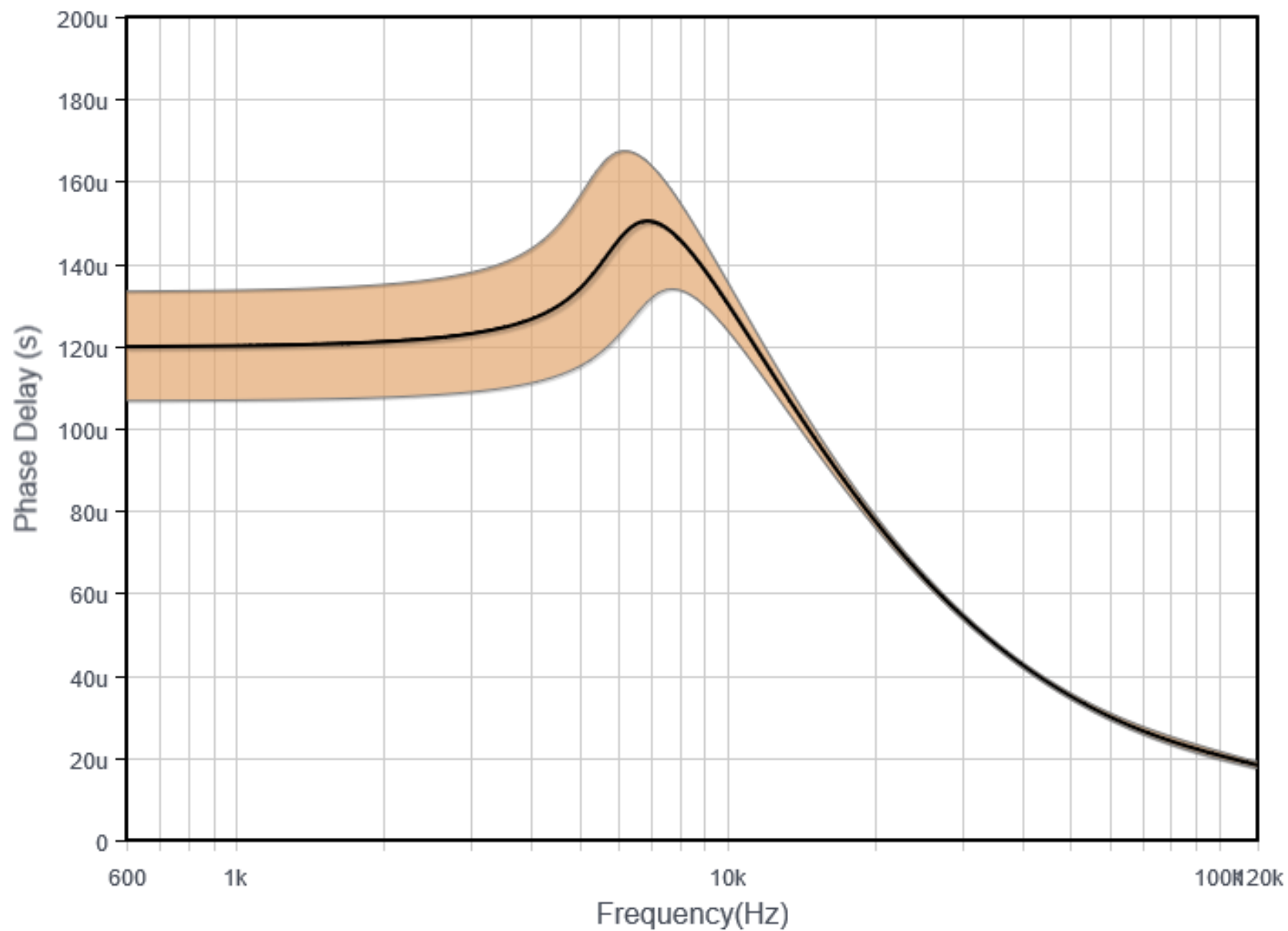
Phase(radians)



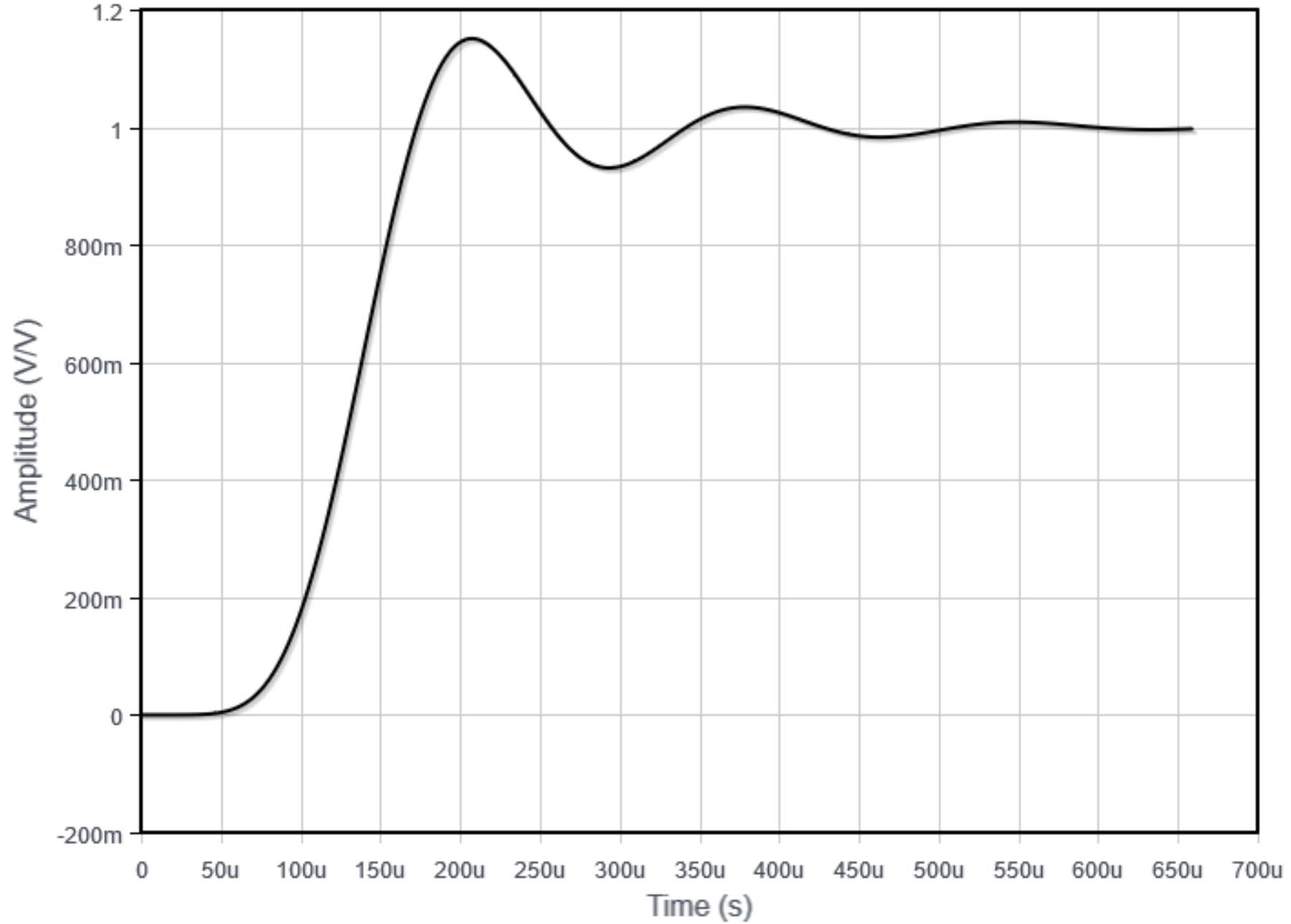
Group Delay



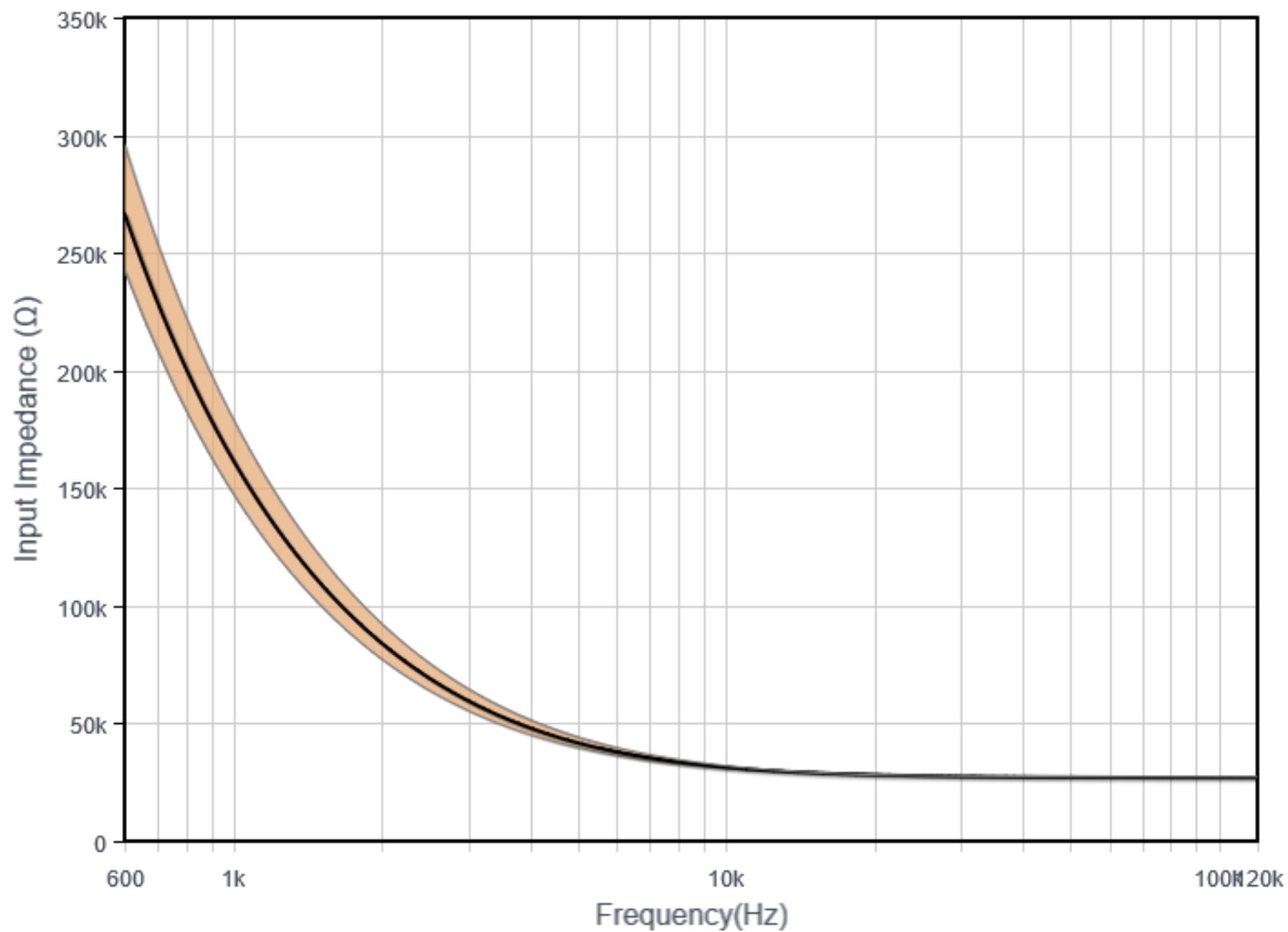
Phase Delay



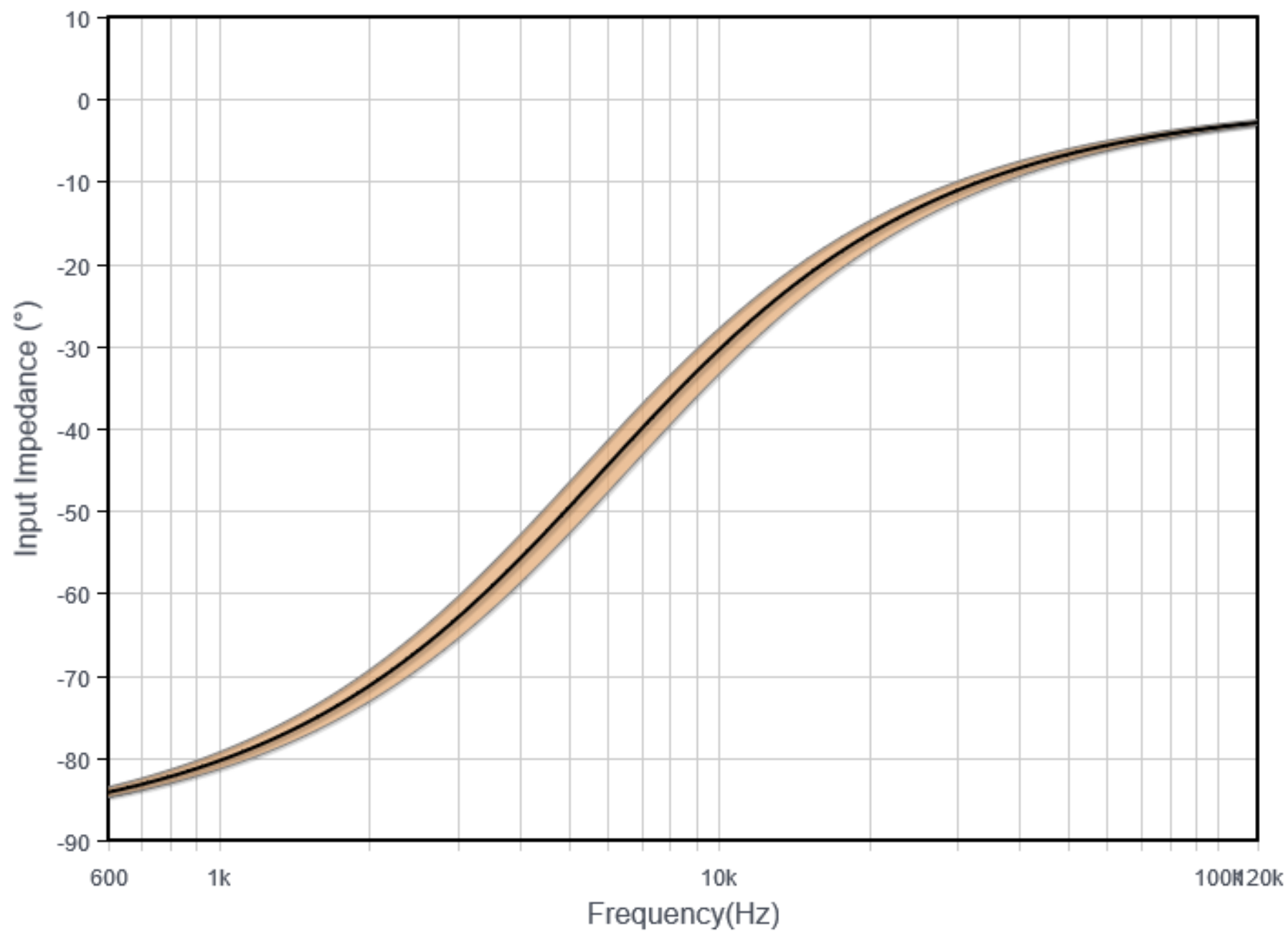
Step Response



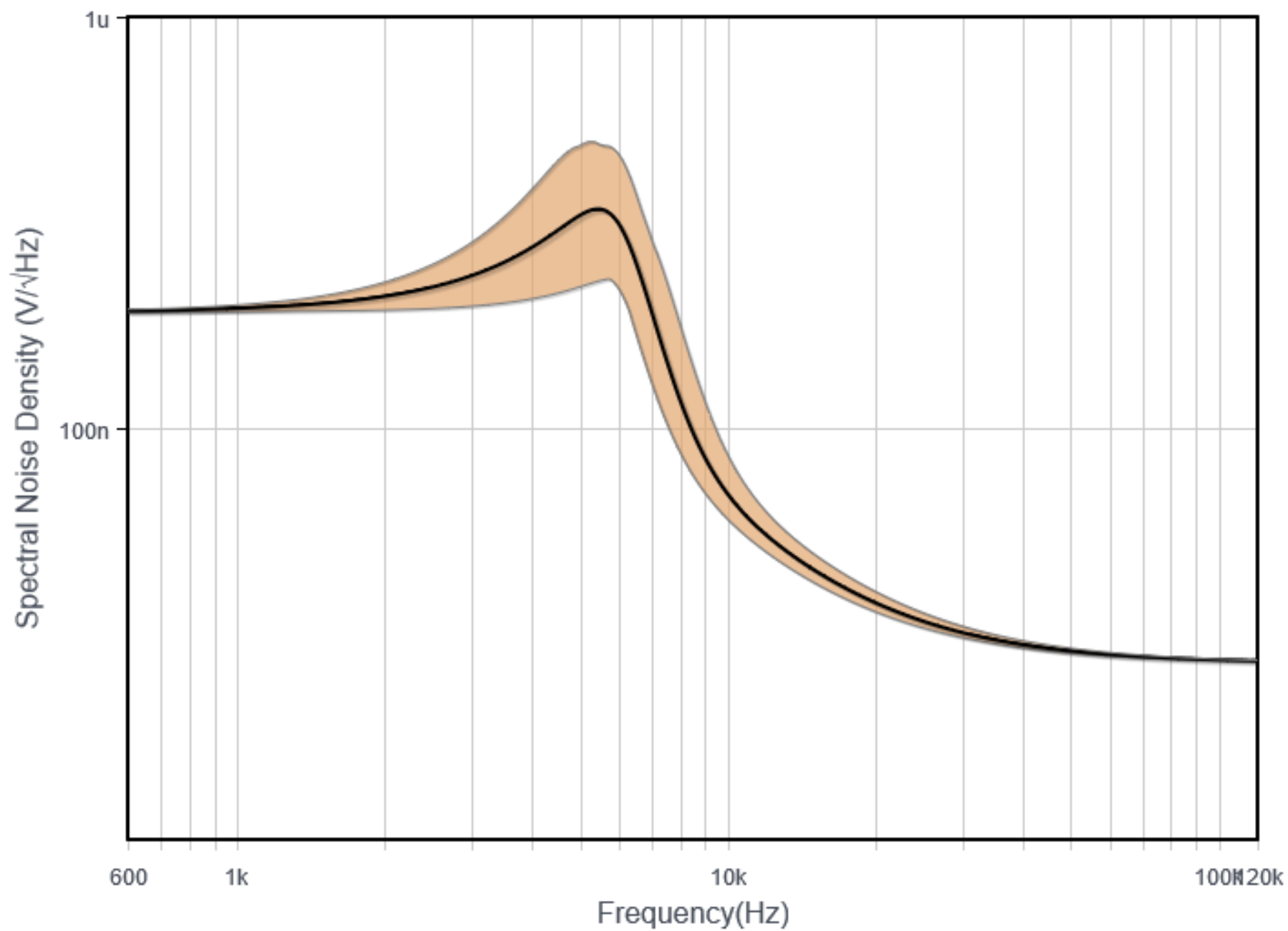
Input Impedance Magnitude



Input Impedance Phase



Noise



Circuit

