

滤波器设计向导

Filter Wizard Design

创建于 10/07/2021



滤波器设计向导

低通、七阶巴特沃兹-贝塞尔的滤波器要求

详细规格: 优化目标: 特定元件; +Vs: 12; -Vs: -12

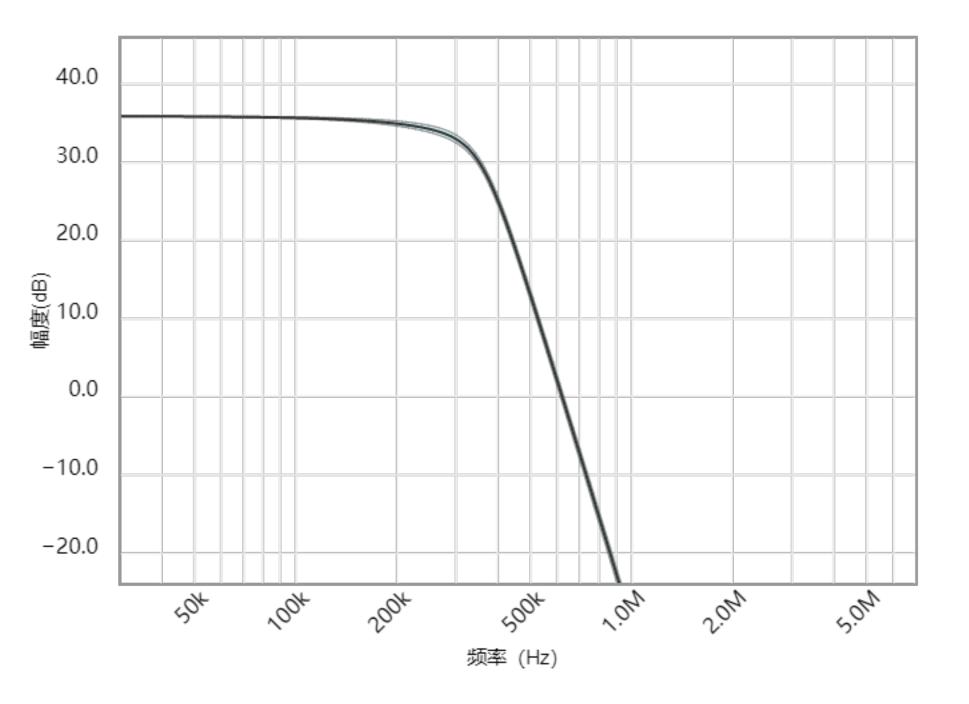
增益: 36 dB

通带: -3dB at 300kHz

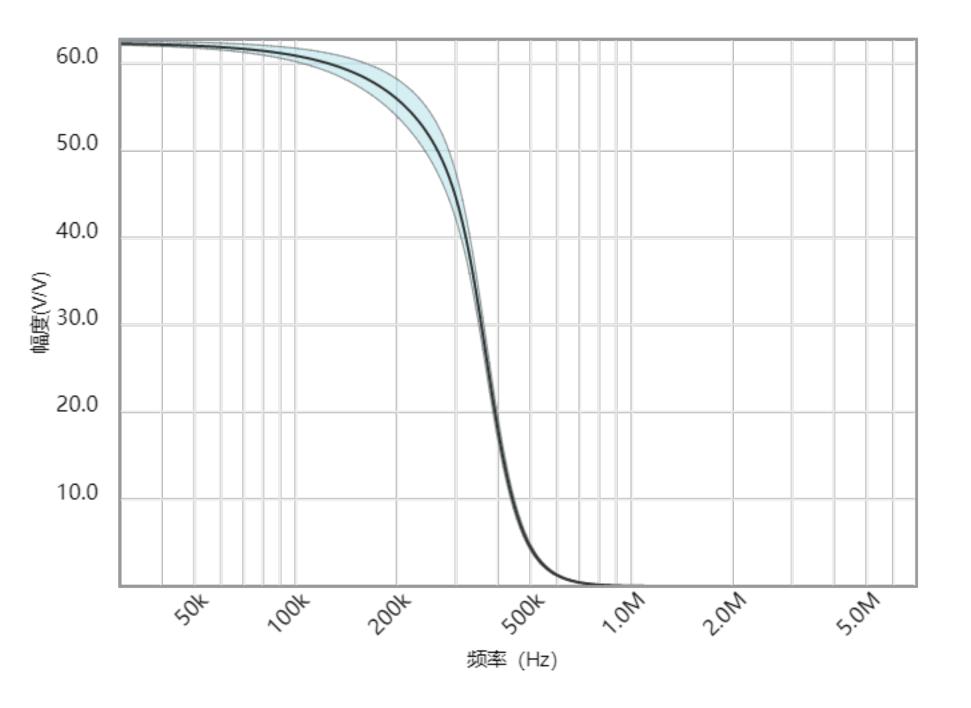
阻带: -40dB at 700kHz

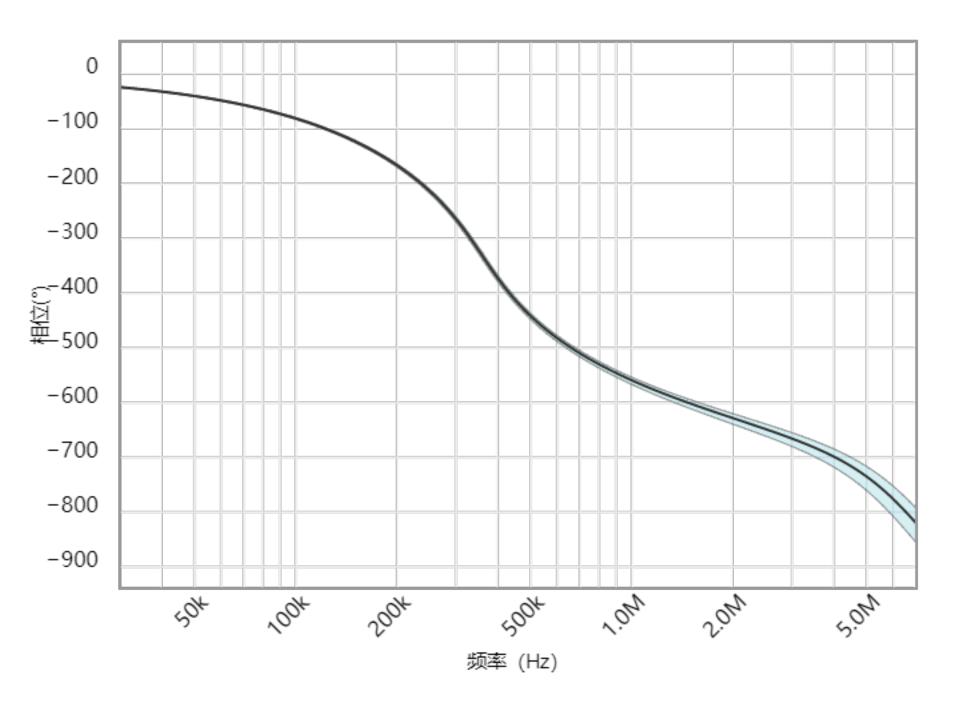
元件容差: 电容 = 1%; 电阻 = 0.1%; 容差 = 5%; 运放增益带宽积 = 20%

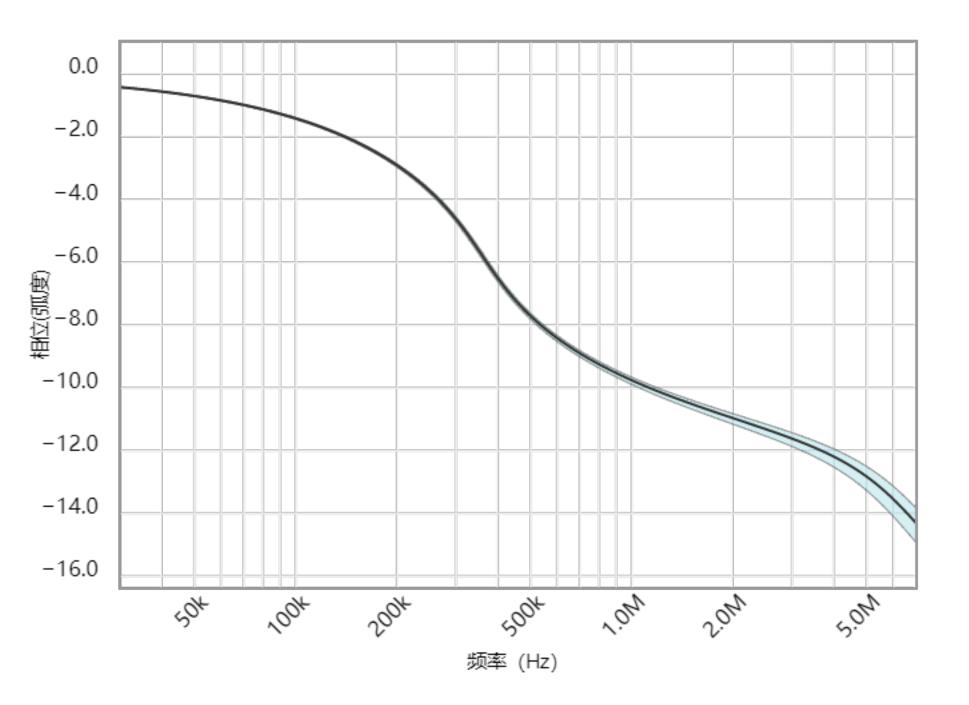
BOM: refer to BOM.csv file

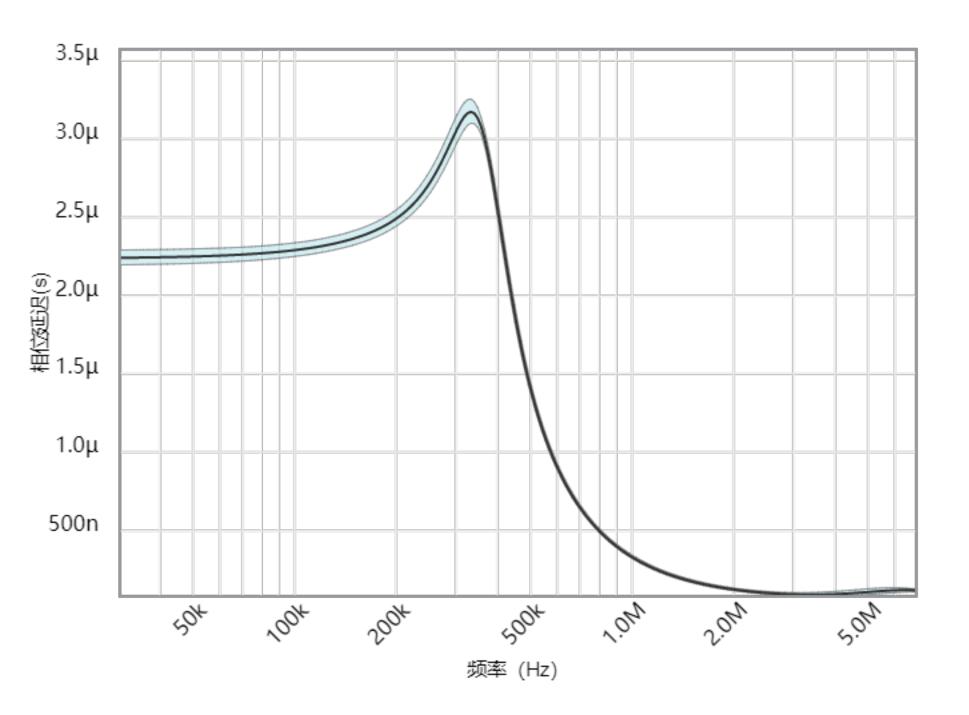


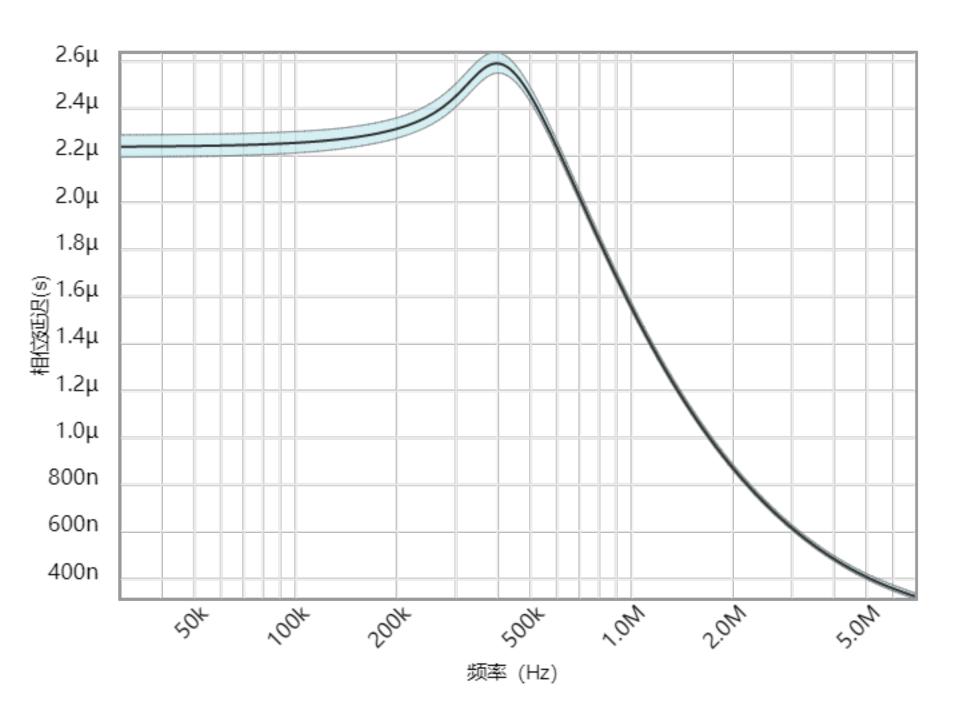
幅度(按伏特计算)

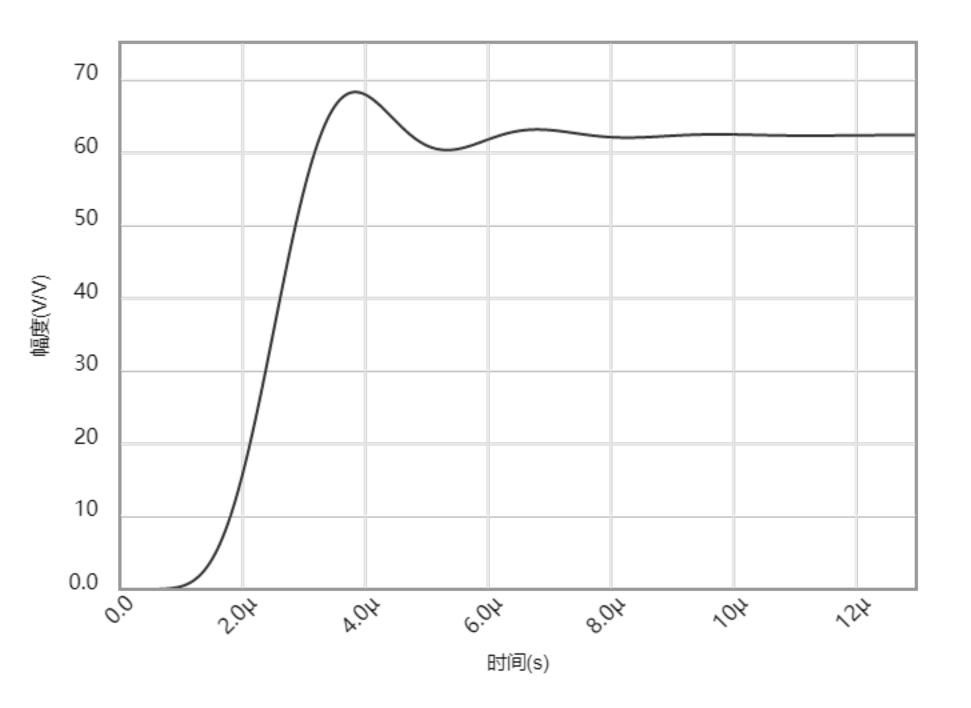




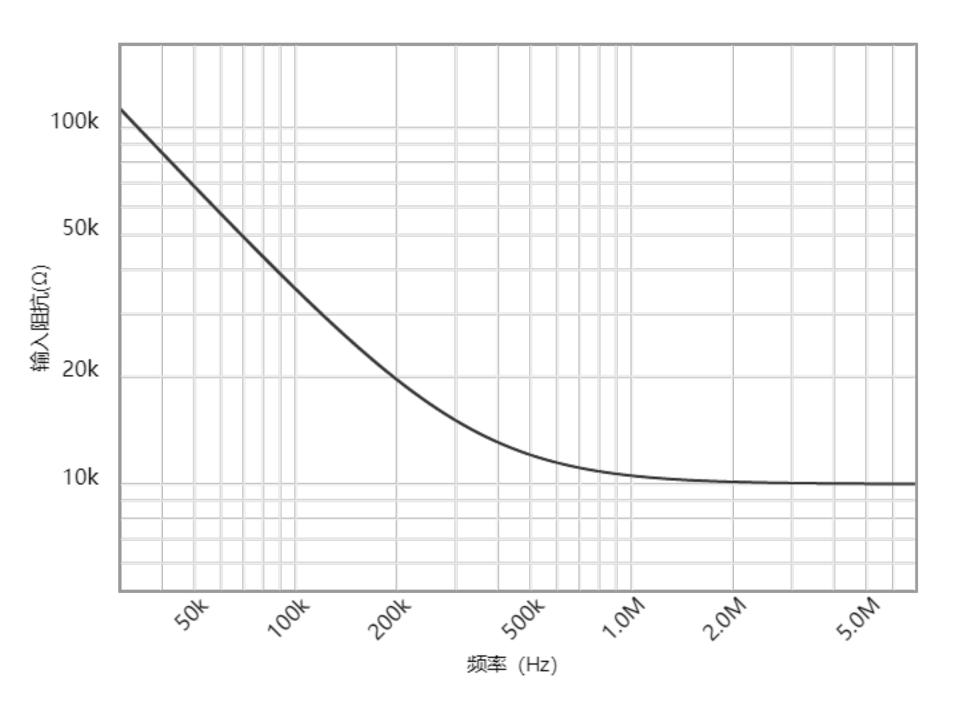


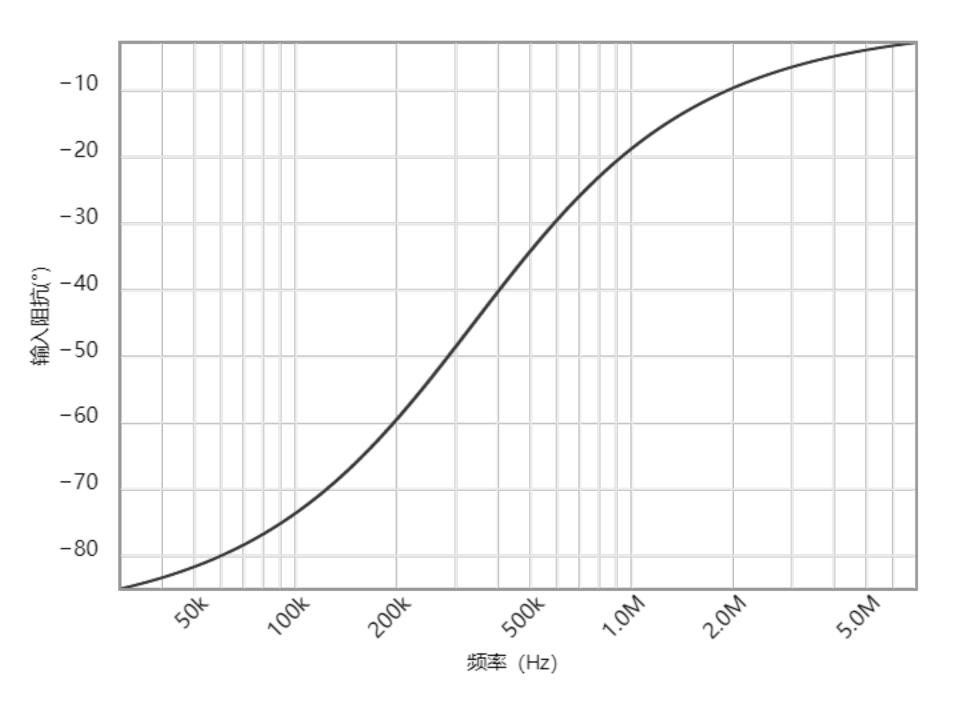


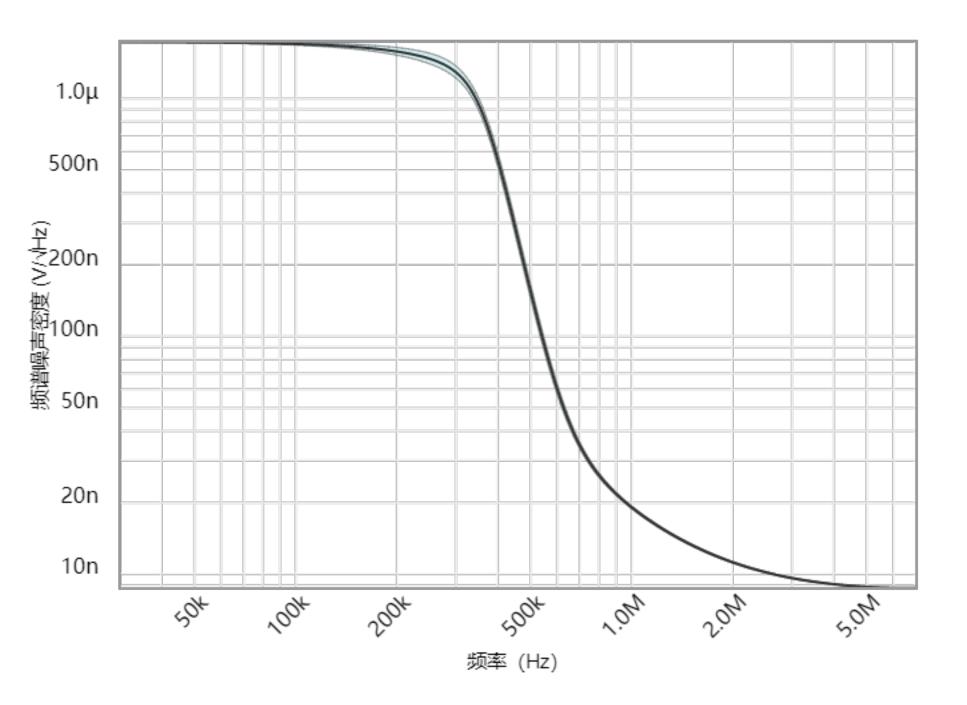




输入阻抗幅度

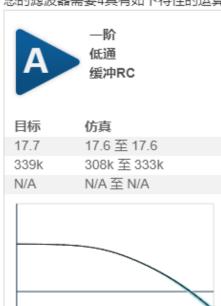






级数

您的滤波器需要4具有如下特性的运算放大器级



增益 (V/V):

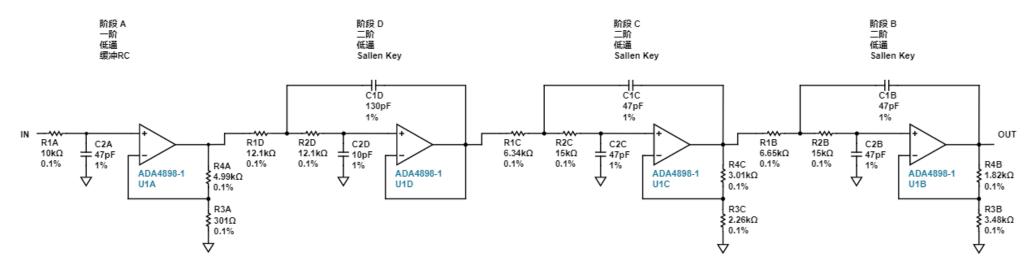
fp (Hz):

Q:









旁路电容

12V	-12V	12V	-12V	12V	-12V	12V	-12V	12V	-12V
C9A ⊥	COA ⊥	C9D ⊥	COD ⊥	C9C	C0C ⊥	C9B ⊥	COB ⊥	C101M+	C100M 👃
100nF T	100nF T	100nF 丁	100nF 丁	100nF 丁	100nF T	100nF T	100nF T	10uF T	10uF T+
20%	20%	20%	20%	20%	20%	20%	20%	20%	20%