Experiment Summary

Filter 1

Filter Type: BP Z(s): $\left(\infty, \infty, \infty, \infty, \infty, R_4, \frac{LLs}{CLLLs^2+1}\right)$ H(s): $\frac{LLs(R_4gm-1)}{CLLLR_4s^2+LLs+R_4}$ Q: $CLR_4\sqrt{\frac{1}{CLLL}}$ ω_0 : $\sqrt{\frac{1}{CLLL}}$ Bandwidth: $\frac{1}{CLR_4}$

Filter 2

Filter Type: BP Z(s): $\left(\infty, \infty, \infty, \infty, R_4, \frac{1}{CLs + \frac{1}{RL} + \frac{1}{LLs}}\right)$ H(s): $\frac{LLRLs(R_4gm-1)}{CLLLR_4RLs^2 + LLR_4s + LLRLs + R_4RL}$ Q: $\frac{CLR_4RL\sqrt{\frac{1}{CLLL}}}{R_4 + RL}$ ω_0 : $\sqrt{\frac{1}{CLLL}}$ Bandwidth: $\frac{R_4 + RL}{CLR_4RL}$

1

