$$\frac{3 \text{ and pass Filter}}{\sqrt{3.15 \text{ ar}}} = \frac{32 \times 10^{-6} \text{ s}}{\sqrt{3.125 \text{$$

 $V_0(s) = \frac{-10 \times 10^{-6}}{s(s + 400)(s + 800)}$

$$\frac{1}{SC_{1}} = \frac{1}{3.125 \times 10^{-6} S} = \frac{.32 \times 10^{6}}{S}$$

$$\frac{1}{SC_{2}} = \frac{1}{625 \times 10^{-6} S} = \frac{1.66 \times 10^{6}}{S}$$

$$V_{G} = S_{2} = \frac{1.66 \times 10^{6}}{S^{2}}$$

$$V_{G} = 0$$

$$\frac{2000}{S^{2}} = \frac{1.66 \times 10^{6}}{S^{2}}$$

$$\frac{2000}{S^{2}} + \frac{1.66 \times 10^{6}}{S^{2}}$$

$$\frac{2}{S^{2}} = \frac{1.66$$