$$C_1 = \frac{1}{SC} = \frac{2.5 \times 109}{S}$$
 $C_2 = \frac{1}{SC} = \frac{0.25 \times 108}{S}$

$$\rho = x10^{-12}$$

$$Z_1 = 125 K + \frac{6.25 \times 10^8}{5}$$

$$Z_2 = Z_1 | C_1$$

$$\frac{(2.5 \times 10^9)}{S} (125 \text{K} + \frac{(0.25 \times 10^8)}{S})$$

$$\frac{2.5 \times 10^9}{125 \text{K} + \frac{(0.25 \times 10^8)}{S}}$$

$$Z_2 = (2.5 \times 10^9)(S + 5 \times 10^3)$$

 $S(S + 2.5 \times 10^4)$

$$\frac{V_0}{V_{10}} = \frac{-R_2}{R_1} = \frac{2}{R_1} = \frac{-(2.5 \times 10^{9})(S + 5 \times 10^{3})}{S(S + 2.5 \times 10^{4})}$$

$$H(s) = -104(s+5000)$$

$$S(s+25000)$$