

$$i = \frac{V_i}{X_{C} + R}$$

$$V_0 = R \cdot \frac{V_i}{X_{C} + R}$$

$$A_V = \frac{V_0}{V_i} - \frac{R}{X_{C} + R}$$

$$X_C = \frac{1}{j\omega C}$$

$$i = \frac{v_i}{X_C + R}$$

$$X_{c} = \frac{1}{i\omega c}$$

$$= \frac{R}{\frac{1}{j\omega C} + R} = \frac{1}{\frac{1}{R}(\frac{1}{j\omega C} + R)} = \frac{1}{\frac{1}{R}(\frac{1}{k} + R)} = \frac{1}{\frac$$

$$\frac{1}{1} + 1 \qquad \omega_{cz}$$

$$\int \omega R c$$

$$L \Rightarrow \gamma - R c$$

$$\omega_{c} = 2\pi f_{c} = \frac{1}{2\pi Rc}$$

$$f_{c} = \frac{1}{2\pi Rc}$$

$$Av = \frac{1}{1 + \frac{1}{j \frac{\omega}{\omega c}}}$$

$$AV = \frac{1}{1 + \frac{1}{6}} = \frac{1}{1 + 00} = \frac{1}{1 +$$

$$A_{1} = \frac{1}{1 + \frac{1}{00}} = \frac{1}{1 + 0} = \frac{1}{1} = 1$$

$$\frac{1}{0.01} = 100$$

$$\frac{1}{2} = 0.5$$

$$\int_{0}^{\infty} \int_{0}^{\infty} dt = \int_{0}^{\infty} \int_{0}^{\infty} \int_{0$$

$$\frac{1}{0}$$
 - 0

