$$\frac{\text{HI}}{\text{R=1k}\Omega}$$
 LPF at $\Omega = 1000 \text{ rad/s}$

$$H(s) = \frac{1}{cs}$$

$$R + \frac{1}{cs}$$

$$|H(j\Omega)| = \frac{1}{\sqrt{1 + R^2 c^2 s a^2}} = 0.447$$