$$H_e(z) = 1 - z^{-1}$$
 $H_e(j\omega) = \left(1 - e^{-j\omega T}\right) = 2e^{-j\omega T/2} \left(\frac{e^{j\omega T/2} - e^{-j\omega T/2}}{2}\right)$

 $=2e^{-j\frac{\omega T}{2}}\left(j\sin\left(\frac{\omega T}{2}\right)\right)=2\sin\left(\frac{\omega T}{2}\right)e^{-j\frac{\omega T-\pi}{2}}$

 $|H_{e}(f)| = 2|\sin(\pi fT)| = 2|\sin(\pi \frac{f}{f_{s}})|$