(c) Since $h_3[n] \overset{Z}{\leftrightarrow} H_3(z)$ is designed by frequency matching over the Nyquist bandwidth $H_3\left(e^{j\Omega}\right) = H_c\left(j\frac{\Omega}{T}\right)$, the magnitude response $\left|H_3\left(e^{j\Omega}\right)\right|$ is shown below. As in part (b), there is no aliasing. Since $\left|H_3\left(e^{j\Omega}\right)\right|$ has no discontinuities, there is no Gibbs phenomenon.