1. High-pass filter. Cutoff frequency is same as if R1 removed and R2 changed to R1 + R2.

2. Thevenin equivalent has $R_{Th} = R_1 || R_2 = 800\,\Omega$. $1\,\text{GHz} < \omega_c < 1\,\text{THz}$

3. $\omega_{c1} = 346.5\,\text{Mr/s}$, $Q = 4/3$

4. $\omega_0 = 500\,\text{Mr/s}$, $\omega_{c2} = 1\,\text{G r/s}$