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