Equivalence between end-shorted quarterwave transmission line resonator and parallel LC resonator

Resonant frequency $f_r := 1000\text{MHz}$

Characteristic impedance $Z_0 := 70\Omega$

$C := \frac{1}{8 \cdot Z_0 \cdot f_r}$ $C = 1.786\text{pF}$

$L := \frac{2 \cdot Z_0}{\pi^2 \cdot f_r}$ $L = 14.185\text{nH}$

$B_{LC}(f) := 2 \cdot \pi \cdot f \cdot C - \frac{1}{2 \cdot \pi \cdot f \cdot L}$

$B_{TL}(f) := \frac{1}{-Z_0 \cdot \tan\left(\frac{\pi}{2} \cdot \frac{f}{f_r}\right)}$

$f := 500\text{MHz}, 501\text{MHz} .. 1500\text{MHz}$