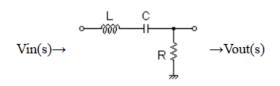
RLC Filter



Transfer Function:

$$G(s) = \frac{26595.744680851s}{s^2 + 26595.744680851s + 141843971.63121}$$

Center passes frequency

$$f_0 = 1895.5077880481[Hz]$$

Quality factor

Damping ratio

$$\zeta = 1.1165462515789$$

Pole(s)

$$p = -1174.9908664843$$
[Hz]
 $|p| = 1174.9908664843$ [Hz]
 $p = -3057.8533646831$ [Hz]
 $|p| = 3057.8533646831$ [Hz]

Zero(s)

$$z = 0[Hz]$$
$$|z| = 0[Hz]$$

R=125 Ω L=4.7m H C=1.5u F

p:pico, n:nano, u:micro, k:kilo, M:mega

Frequency analysis

- Bode diagram
 - OPhase OGroup delay
- ☑ Nyquist diagram
- ✓ Pole, zero
 ✓ Phase margin
- ✓ Oscillation analysis

Analysis on frequency range:

Transient analysis

- ✓ Step response
- ☐ Impulse response
- Overshoot
- ✓ Final value of the step response

Analysis on time range:

Calculate