

6. The emitted wavelength is

$$\begin{aligned}\lambda &= \frac{c}{f} = 2\pi c\sqrt{LC} \\ &= 2\pi(2.998 \times 10^8 \text{ m/s})\sqrt{(0.253 \times 10^{-6} \text{ H})(25.0 \times 10^{-12} \text{ F})} = 4.74 \text{ m} .\end{aligned}$$