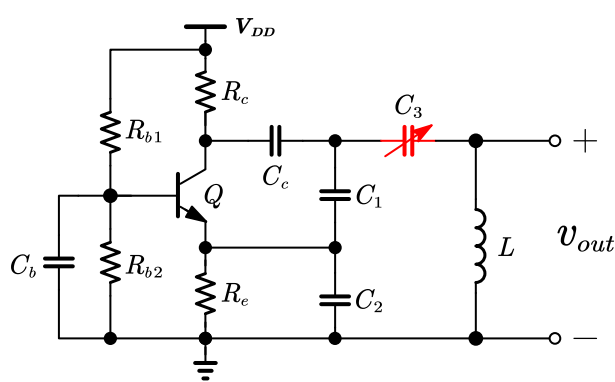
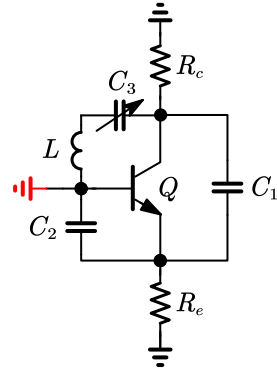
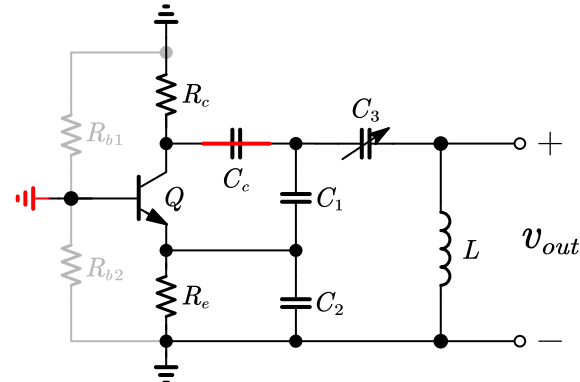
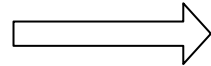


克拉泼振荡器

Clapp Oscillator (CB)



Small Signal Equivalent



C_3 越小, 环路增益越小, 如果 C_3 取值过小, 振荡器就不能满足起振条件而无法工作

$$\omega_{\text{osc}} \approx \omega_0 = \frac{1}{\sqrt{L(C_1 \parallel C_2 \parallel C_3)}} \approx \frac{1}{\sqrt{LC_3}}, \quad C_3 \ll C_1, C_2$$
$$K = \frac{f_{\text{osc,max}}}{f_{\text{osc,min}}} = 1.1 \sim 1.2$$