



$$c) \left. \begin{array}{l} \bar{P}_L \leq 2W \\ \bar{P}_L = \frac{\hat{N}_0^2}{2R_L} \end{array} \right\} \Rightarrow \frac{\hat{N}_0^2}{2R_L} \leq 2 \Rightarrow \frac{\hat{N}_0^2}{4} \leq R_L \Rightarrow \frac{V_{CC}^2}{4} \leq R_L$$

von  $N_0 = V_{CC}$

$(5)^2 \cdot 625 \Omega \leq R_L$