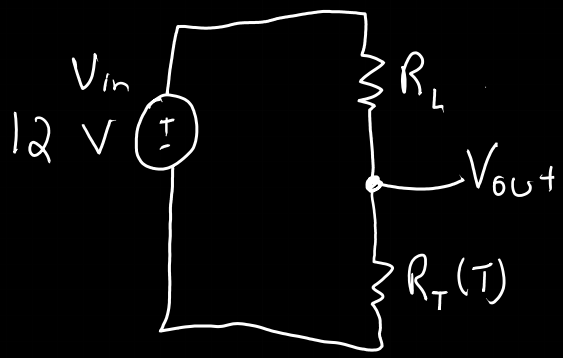


$$0V \leq V_{out} \leq 3.3V$$

$$0V \leq \frac{-385T + 1000}{-385T + 1000 + R_L} V_{in} \leq 3.3V \quad V_{out} = \frac{R_T(T)}{R_T(T) + R_L} V_{in}$$

$$\text{if } V_{in} = 12V$$

$$R_L =$$



$$-50^{\circ}C \leq T \leq 260^{\circ}C$$

$$1725\Omega \geq R(T) \geq 497\Omega$$

$$R_T(T) = \frac{-385\Omega}{1^{\circ}C} T + 1000\Omega$$

$$ADC_{10}$$

$$Q_v = \frac{V_{in}}{2^{10} - 1}$$

$$0.1^{\circ}C \leq Q_T = \frac{T(Q_v)}{2^{10} - 1}$$