Medidor de Alterna

Corriente RMS:

$$F_{CF1} = \frac{V_1\ 24}{V_{ref}}\ \frac{f_{osc}}{512} \quad \Rightarrow$$

$$V_1 = \frac{F_{CF1}\ V_{ref}}{f_{osc}}\ \frac{512}{24}\ \frac{1}{R_{sh}}$$

Tensión RMS:

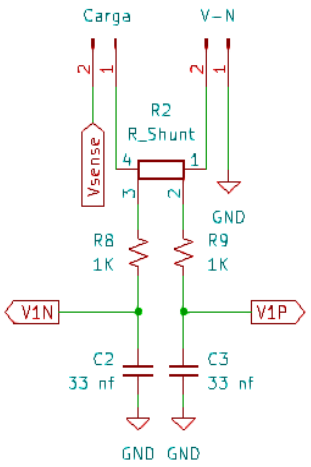
$$F_{CFU} = \frac{V_2\ 2}{V_{ref}}\ \frac{f_{osc}}{512} \quad \Rightarrow$$

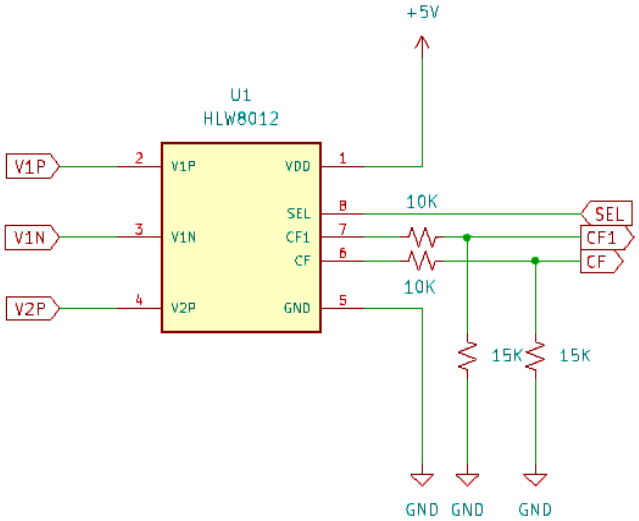
$$V_2 = \frac{F_{CFU}\ V_{ref}}{f_{osc}}\ \frac{512}{2}\ \underbrace{2351}_{div.}$$

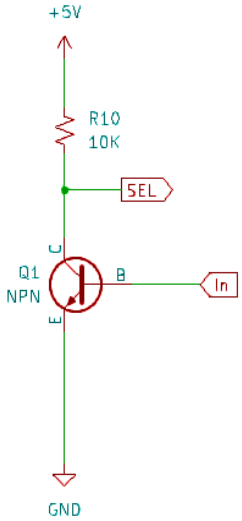
Potencia activa:

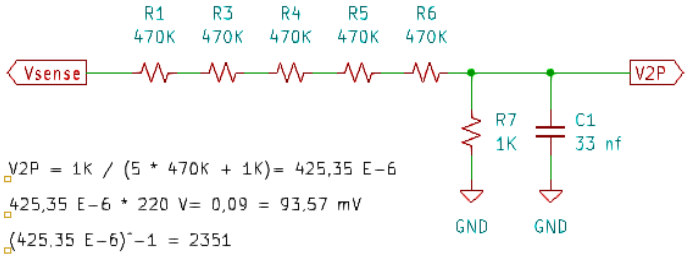
$$F_{CF} = \frac{V_1\ V_2\ 48}{V_{ref}^2}\ \frac{f_{osc}}{128}$$

$$V_1\ V_2 = \frac{F_{CF}\ V_{ref}^2\ 128}{f_{osc}\ 48}$$





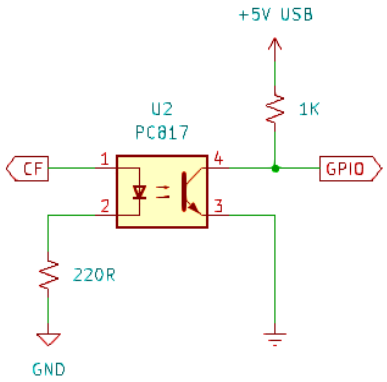


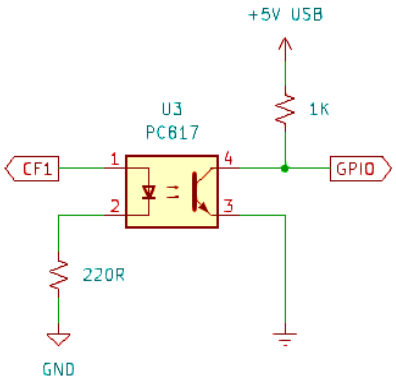


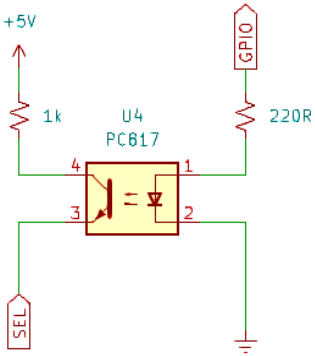
V2P = 1K / (5 * 470K + 1K)= 425,35 E-6

425,35 E-6 * 220 V= 0,09 = 93,57 mV

(425,35 E-6)^-1 = 2351







www.intronic.com.ar