

$$\text{NPE} = \frac{(Q-35) * 0.1 * 10^{-12} * 9.4}{\text{Gain} * 1.6 * 10^{-19}} = \frac{(Q-35) * 5.875}{\text{Gain} * 10^{-6}}$$

$$X = (Q - 35) * 5.875$$