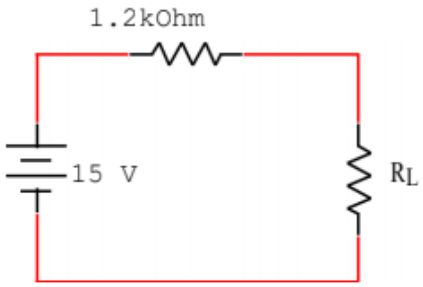
Cálculos



Cálculo de la potencia

$$P_{Rl} = \frac{{V_{Rl}}^2}{R_L} = \frac{\left(V\left(\frac{R_L}{R_1 + R_L}\right)\right)^2}{R_L}$$

Cálculo de la potencia para $R_L = 220\Omega$

$$P = \frac{\left(15\left(\frac{220}{1200 + 220}\right)\right)^2}{220}$$

$$P = 0{,}0245\ [W]$$

Cálculo de la potencia para $R_L = 470\Omega$

$$P = \frac{\left(15\left(\frac{470}{1200 + 470}\right)\right)^2}{470}$$

$$P = 0{,}0379\ [W]$$

Cálculo de la potencia para $R_L = 680\Omega$

$$P = \frac{\left(15\left(\frac{680}{1200 + 680}\right)\right)^2}{680}$$

$$P = 0{,}0433\ [W]$$

Cálculo de la potencia para $R_L = 820\Omega$

$$P = \frac{\left(15\left(\frac{820}{1200 + 820}\right)\right)^2}{820}$$

$$P = 0{,}0452\ [W]$$

Cálculo de la potencia para $R_L = 1000\Omega$

$$P = \frac{\left(15\left(\frac{1000}{1200+1000}\right)\right)^2}{1000}$$

$P = 0{,}0465\ [W]$

Cálculo de la potencia para $R_L = 1500\Omega$

$$P = \frac{\left(15\left(\frac{1500}{1200+1500}\right)\right)^2}{1500}$$

$P = 0{,}0463\ [W]$

Cálculo de la potencia para $R_L = 1800\Omega$

$$P = \frac{\left(15\left(\frac{1800}{1200+1800}\right)\right)^2}{1800}$$

$P = 0{,}045\ [W]$

Cálculo de la potencia para $R_L = 2200\Omega$

$$P = \frac{\left(15\left(\frac{2200}{1200+2200}\right)\right)^2}{2200}$$

$P = 0{,}0428\ [W]$

Cálculo de la potencia para $R_L = 3900\Omega$

$$P = \frac{\left(15\left(\frac{3900}{1200+3900}\right)\right)^2}{3900}$$

$P = 0{,}0337\ [W]$

Cálculo de la potencia para $R_L = 4700\Omega$

$$P = \frac{\left(15\left(\frac{4700}{1200+4700}\right)\right)^2}{4700}$$

$P = 0{,}0304\ [W]$