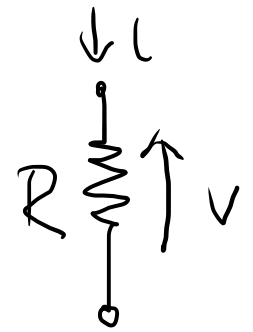


POTENZA e Resistori

$$\underline{P = I \cdot V} = \underline{I \cdot i \cdot R} = \underline{I^2 \cdot R}$$



$$V = iR \quad \quad \quad = \frac{V}{R} \cdot V = \frac{V^2}{R}$$

$$i = \frac{V}{R}$$



$$12 = V + 2$$

$$12 = iR + 2$$

$$iR = 12 - 2 = 10$$

$$R = \frac{10}{i} = \frac{10}{0,010} = 1000 \Omega = 1k\Omega$$

$$P = 0,010 \cdot 10V = 0,1 \text{ Watt}$$

$$P = (0,010)^2 \cdot 1000 = \underline{\underline{0,1 \text{ W}}}$$



1 W 2 W 5 W ...

$$\frac{1}{2} \text{ W} = 0,5 \text{ W} \quad 500 \text{ mW}$$

$$\frac{1}{4} \text{ W} = 0,25 \text{ W} \quad \boxed{250 \text{ mW}}$$

$$\left(\frac{1}{8} \text{ W} \right)$$

$$P_{R-} = 0,1 \text{ W} \quad \textcircled{\neq 100 \text{ mW}}$$