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& the voltage "V" where the resistance "R" is a constant in an electrical circuit.

Electrical & electronic formulas - Basic electronics, electrical units, symbols, basic concepts, DC/AC circuit laws, resistor color code

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Electrical Current Formulas  $I = P / (V \times \cos\theta)$   $I = (V/Z)$

Formula; Voltage:  $V = I \times R$ ; Current:  $I = V/R$ ; Resistance:  $R = V/I$ ; Power:  $P = V \times I$  or  $P = V^2 / R$  or  $P = I^2 R$

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All Electrical Engineering Formulas List Cable Length from Sag, Span. Spring Resonant Frequency. Solenoid Coil Electromagnetic Force. Magnetic constant =  $4 \times \pi \times 10^{-7}$ . Capacitor Energy (E) and RC Time Constant.  $E = (V^2 \times C) / 2$   $R = \text{Load Resistance (Ohms)}$ . Physical Properties of Coil / ...

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Most commonly used electrical formulas are formulas related to voltage, current, power, resistance etc. Volt is a unit of electrical potential or motive force - the potential is required to send one ampere of current through one ohm of resistance. Watt is a unit of electrical energy or power - one watt is the product of one ampere and one volt - one ampere of current flowing under the force of one volt gives one watt of energy.

The most common used electrical formulas - Ohms Law and combinations. Electri-

cal Motor Efficiency.  $\mu = 746 \text{ Php} / \text{Pin}_{\text{put}_w}$  (6) where.  $\mu$  = efficiency.  $\text{Php}$  = output horsepower (hp)  $\text{Pin}_{\text{put}_w}$  = input electrical power (watts) ... Electrical Motor - Power. Electrical Motor - Amps.

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