

Parameter	Measuring Unit	Relationship
Voltage	volt (V or E)	$E = I \times R$
Current	amp (I)	$I = \frac{E}{R}$
Resistance	ohm (R or Ω)	$R = \frac{E}{I}$
Conductance	mho (G or $\bar{\Omega}$)	$G = \frac{I}{R} = \frac{I}{E}$
Power	watt (W)	$P = I \times E$ or $P = I^2 R$
Inductance	henry (L or H)	$V_L = -L \left(\frac{\Delta I}{\Delta t} \right)$
Capacitance	farad (C)	$C = \frac{Q}{E}$ (Q = charge)

Basic Electrical Measurements

Thomas Griffiths



Basic Electrical Measurements:

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