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## **Electronics**

In this section we'll discuss three basic electronic components:

Name	Unit	Symbol
Resistor (R)	Ohm (Ω)	

#### Ohm's Law

### **RLC Impedance**

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Impedance (Ω)	Low Frequency	Medium Frequency	High Frequency
Resistance, R	Doesn't depend on frequency		
Inductive Reactance \\$X_L = 2\pi f L\\$	Low	Medium	High
Capacitive Reactance \\$X_C = \frac{1}{2\pi f C}\\$	High	Medium	Low

#### **RLC Addition**

	Series	Parallel
	×	×
Resistor, R [Ω]	$\$R = R_1 + R_2 \$$	$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$
	×	×
Inductor, L [H]	$\L = L_1 + L_2\$	$\frac{1}{L} = \frac{1}{L_1} + \frac{1}{L_2}$
	×	×
Capacitor, C [F]	\\$\frac{1}{C} =\frac{1}{C_1} + \frac{1}{C_2}\\$	\\$C = C_1 + C_2\\$

# **Questions**



