



PyroElectro.com - PyroEDU



Introduction To Digital Electronics – Lesson 7: Clocks and Oscillators

PARTS

The following information is meant to go with the online lesson found here:
http://www.pyroelectro.com/edu/digital/clocks_oscillators/

555 TIMER VS. CRYSTAL OSCILLATOR

In this lesson we learned more about what a clock signal is and how we want it to look. We used the 555 timer to generate a slower clock signal at around 0.5 Hz and then faster at around 10 Hz. We also used a crystal oscillator that runs in the Megahertz range which went so fast our eyes couldn't keep up with it.

Picture	Type	Description
	Thru Hole 555 Timer 8 Pin DIP	This small 8 pin IC is the 555 timer that we've used all over the place in course 1 and will continue to use in many places now in course 2. Datasheet Link
	Crystal Oscillator 4 Pin DIP	This new crystal oscillator device is another way to generate a clock signal. However, they run at very fast speeds, often in the megahertz so be careful! It might be too fast for your eyes. Datasheet Link

ADDITIONAL INFORMATION

To ask questions about anything found in this information please head on over to the forums located at:

<http://www.pyroelectro.com/forums/viewforum.php?f=21>