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Loop Circuits and Frequency Synthesis  
Simple Phase Locked Loop Application  
Demo

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78. The PLL as a FM Demodulator

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1 MHz Oscillator 4046 PLL Chip 77.

PLLs as Frequency Multipliers 76. Phase  
Locked Loops ~~Julian plays with Frequency  
Division and Multiplication~~ A Basic Look  
at the PLL Circuit Phase Locked Loop  
Tutorial | PLL Basics What is Phase Lock  
Loop (PLL)? How Phase Lock Loop  
Works ? PLL Explained

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resonance frequency of a coil ~~Let's make a  
Voltage Controlled Oscillator (VCO)~~

Introduction to Phase Locked Loops

Electronic Basics #17: Oscillators || RC,

LC, Crystal Synth Voltage Controlled

Oscillator 1v/oct tracked DIY how to. #55:

Back to Basics: Tutorial on LC Resonant

Circuits VCO Audio Applications Part 1-

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Synthesizer Building Block (Voltage Controlled Oscillator) 4046 PLL as frequency multiplier and lock onto 18.3khz....39.2khz Modifying a 4046 based VCO Classic 2 Op-Amp tri and square wave VCO - DIY Modular in a Week 1.2

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First 4046 voltage controlled oscillator

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circuit VCO oscilloscope and LED circuit  
CD4046 CD4046B 4046 PLL Oscillator:  
4066 Sample and Hold Freakout DIY  
Phase Locked Loop VCO

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187N. Intro. to phase-locked loops (PLL)  
noise4046 VCO - DIY Modular in a Week  
1.3

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PLL 4046 Organ Synthesizer 4 minute



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performance CD4046 200Hz 200Khz  
Oscillator Easy Easy Easy ~~4046 PLL Circuit  
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PLL using 4046 - Phase Locked loop.  
CD4046 is a PLL or phase lock loop, it

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mainly consists of a VCO and phase comparators. This is a component in FM demodulation and modulation. Mixed and Interface Circuits. It is used in a closed loop control to maintain a stable frequency.

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demodulation and modulation. Mixed and

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Interface Circuits. It is used in a closed loop control to maintain a stable frequency. The Circuit above is

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PLL using 4046 - Phase Locked loop.

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Figure 2 shows a block diagram of the



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CD4046B, which has been implemented on a single monolithic integrated circuit. The PLL structure consists of a low-power, linear VCO and two different phase comparators, having a common signal-input amplifier and a common comparator input. A 5.2-V Zener diode is provided for supply regulation, if

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necessary. redkmasramorles

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~~CD4046B Phase Locked Loop: A  
Versatile Building Block for ...~~

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The HC/HCT4046A PLL with VCO is a high-speed CMOS IC designed for use in general-purpose PLL applications, including frequency modulation, demodulation, discrimination, synthesis,

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and multiplication.

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~~CMOS Phase Locked Loop Applications  
(Rev. B)~~

Phase-Locked Loop Design Fundamentals  
Application Note, Rev. 1.0 2 Freescale  
Semiconductor with the reader. Since the  
scope of this article is practical in nature

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all theoretical derivations have been omitted, hoping to simplify and clarify the content. A bibliography is included for those who desire to pursue the theoretical aspect.

~~Phase Locked Loop Design Fundamentals~~

The 4046 chip is a phase-locked loop. A

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A phase locked loop IC consists of a voltage-controlled oscillator (VCO) and a phase detector. In this circuit, we will use only the VCO portion of the 4046 IC and not the phase detector. We use the chip just to generate a digital signal that can be used as a clock signal.



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## ~~How to Build a Voltage-controlled Oscillator (VCO) Circuit ...~~

The IC 4046 is a Phase-locked loop IC of CMOS digital (combined analog and digital chip). A Phase-locked loop (PLL) has a voltage-controlled oscillator (VCO). The VCO signal and an input signal are sent to a phase comparator which

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generates an error voltage part to any difference in frequency between two signals.

~~CD4046 circuit datasheet (phase locked loop) | ElecCircuit.com~~

Figure 2 - functional diagram of the 4046 phase-locked-loop with vco The exact

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ranges and component values are determined by extensive charts included in the 4046 data sheet - (443K) in PDF format. This gives us a very flexible VCO capable of operating anywhere up to 17 Mhz, something the early CMOS versions were incapable of doing.

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~~74HC4046 phase locked loop electronics  
tutorials~~

CD4046 Ten Times  $10\times$  Frequency  
Multiplier Circuit. For 1Hz to 1KHz input  
range, we design a VCO to cover 10Hz to  
10KHz, with some extra range on each  
end. the VCO output is divided by 10 and  
then compared to the input signal using

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the wideband phase detector. The phase-detector output goes to the loop filter and then reaches around and closes the loop by running the VCO.

~~4046 Ten Times Frequency Multiplier  
Circuit | Electronic ...~~

There are many applications of a PLL

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circuit. PLL circuits can demodulate an FM frequency, multiply frequencies, synchronize processor clocks, and a host of other things. The inside of a 4046 IC...

~~Phase Locked Loop: FM Demodulator  
ELEC101~~

The Design of Phase-Locked-Loop Circuit

*Page 30/32*

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for Precision Capacitance... J., "Low  
power consumption phaselocked loop  
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Popular science technology, Vol. 16, Issue  
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