

## Re: phase comparator

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-01/1278.html>

---

**From:** Tim Wescott ([tim\\_at\\_wescottnospamdesign.com](mailto:tim_at_wescottnospamdesign.com))

**Date:** 01/04/05

Date: Tue, 04 Jan 2005 13:52:29 -0800

Tim Wescott wrote:

> *Discriminator, as used in FM radio. However, a three-state*  
> *phase/frequency detector with an appropriate loop filter will often do*  
> *well enough without a bunch of fussy resonant circuits.*

>

>>

I should add that the 74HC4046 has three different types of phase detectors. Fairchild Semiconductor has a nice description of the phase comparator action in their datasheet:

<http://www.fairchildsemi.com/ds/MM/MM74HC4046.pdf>.

--

Tim Wescott

Wescott Design Services

<http://www.wescottdesign.com>