

Re: Self adjusting comparator tricks, anybody know any?

## Re: Self adjusting comparator tricks, anybody know any?

---

*Source:* <http://sci.tech--archive.net/Archive/sci.electronics.design/2006-04/msg00831.html>

---

- *From:* [john@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:john@xxxxxxxxxxxxxxxxxxxxxxxx)
  - *Date:* 7 Apr 2006 14:20:33 -0700
- 

Tim Williams wrote:

<[john@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:john@xxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
[news:1144370359.325397.27250@xx](mailto:news:1144370359.325397.27250@xx)

The device which Intersil described in  
their application note will measure phase very accurately.

Sometimes :)

Many years ago whilst still bright eyed and bushy tailed, I was suckered into building what was described as a 'precision phase meter'. Found to my cost it was only 'precision' when measuring waveforms with 0.000% even harmonic distortion and these were (are) as rare as hen's teeth.

...Run it through a schmidt trigger and frequency divider? Not accurate enough?

Tim

Be OK. Fine with clean wave shapes (ie balanced/symmetrical). Problems come with the unbalanced lopsided stuff. Where does each cycle actually start?. Some kind of additional circuitry is then needed on both phase channels to (try) and actively servo the signals to a balanced midpoint, before the phase timing edges can be generated.

john  
john

.

Re: Self adjusting comparator tricks, anybody know any?