

Re: Dual sine wave generator with variable frequency and 90 degree phase difference

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Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-09/msg00852.html>

- *From:* MooseFET <kensmith@xxxxxxxxxx>
 - *Date:* Sun, 7 Sep 2008 09:59:36 -0700 (PDT)
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On Sep 7, 8:55 am, whit3rd <whit...@xxxxxxxxxx> wrote:

On Sep 6, 5:34 pm, MooseFET <kensm...@xxxxxxxxxx> wrote:

On Sep 7, 6:20 am, whit3rd <whit...@xxxxxxxxxx> wrote:

On Sep 6, 12:50 am, MooseFET <kensm...@xxxxxxxxxx>
wrote:

On Sep 6, 10:01 am, whit3rd
<whit...@xxxxxxxxxx> wrote:

On Sep 5, 9:14 am,
MooseFET
<kensm...@xxxxxxxxxx>
wrote:

The phase
shift
oscillator is
a bad idea

It's not that bad... the only
requirement is four matched
C values.

Re: Dual sine wave generator with variable frequency and 90 degree phase difference

The OP wants 0.05Hz to 10Hz. Over that range you need the ability to adjust more than two sections of the phase shifter if you want to work with a near constant gain.

Of course. These are TRANSCONDUCTANCE AMPS with current program pins, all cascaded. The four sections all change R_output together. A single pot changes four sections of the RC phase shift all in unison.

That is a lot more parts to do it that way. You need 4 CA3080s for this version and only 2 for the state variable version.

Well, not CA3080 (they're obsolete); dual OTAs (NJM13700) are \$0.68 each at Mouser. If it takes two, I can afford that.

It is a moral outrage to use more parts than needed :>

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