

Re: Missing Schmitt Gates??

common to use 50 or even
100ppm rocks in
such systems; this is a
completely different league
of oscillator than
those you build for, e.g.,
fancy RF applications where
you're after
2.5ppm or better.

I was never able to get the Schmitts to
oscillate anywhere near the
supposed crystal frequency.

Maybe it's a little late in the thread to bring this up, but I'd
think that with the Schmitt characteristics of the input, the
crystal
would have to be drastically overdriven, just to get the gate
to
notice that there's a feedback signal.

But I wouldn't have any qualms about an HCU inverter or 3.
;-)

Cheers!
Rich

I think Ht for Logic with Schmitt inputs is about 1V @ 5V.

A crystal..well... isn't it just tiny jiggling piece of rock?
Ooops...I might be thinking piezo..
Damn..forgot all my crystal theory...cuts, shapes, modes and all that
jazz.
Anyways.. I can imagine that one has to be kind to a tiny piece of
crystal and not bash it with lots of drive.
However....depends on the precision required..
As someone posted, for clocking an uC or CPU ...who cares about some
drift..

D from BC

A crystal oscillator using an inverter with hysteresis WILL NOT
self-start.

...Jim Thompson

Re: Missing Schmitt Gates??

Of course it will self-start. It just won't run anywhere near the crystal frequency!

John

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