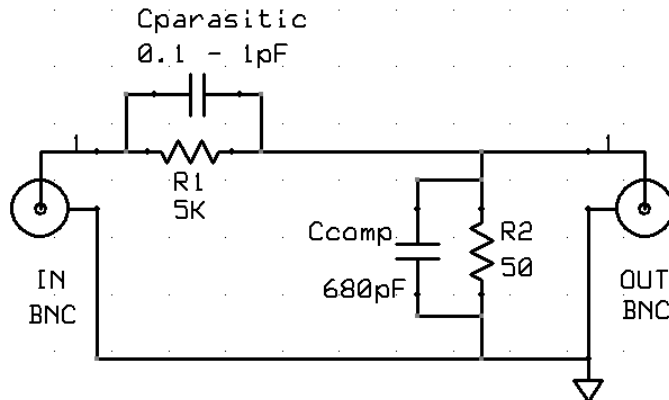


Built your own wide bandwidth attenuator.

Testing an amplifier requires an attenuator circuit – it's hard to make a 1000:1 work well over wide frequency.

Using 100:1 you can apply 100mV into a x1000 amplifier under test, and see 1V out.

100:1 Attenuator



build into shielded box
such as Hammond 1455C801BK
or Pomona box

I measured my hand built one to about 70ns 10-90 rise time, which implies a BW of $0.35/70\text{ns} \Rightarrow 5\text{MHz}$. I've probably low-pass filtered the attenuator some by making the Ccomp too large, but it's fast enough for the work I'm doing now.

Without the Ccomp in place, the square wave I tested displayed a nasty overshoot at the output.