
Subject: Re: I agree...

Posted by [PakProtector](#) on Tue, 08 Nov 2005 19:27:35 GMT

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Well now...having the amp oscillate from a CCS is an interesting prospect. If the CCS does not oscillate(and that's easy enough), it is certainly not going to cause the amp to oscillate because there is a CCS instead of a resistor where I am using them. So, what am I using CCS-es for? Voltage references. With Ohm's Law, and a stable resistance I am creating variable voltages(by varying the R, or stable voltages by *NOT* varying either R or 'i'. In the tail load of the Schmitt inverter, an infinite R(and V for it to work across) makes the AC balance nearly perfect. The heater-cathode capacitance provides a substantial bypass and likely is the contributing factor in the AC imbalance at HF. This can be transferred to primary-secondary coupling for the case of DH valves. There will always be a leakage path. Make it small compared to the stuff which does matter and the imbalance will be hard to measure. Building a CCS which does not oscillate is fairly easy, and a building-block CCS which does not cause trouble has been built by a few of you with Guinevere. The dual CCS and upper element parts of the cascode layout may take a bit. I'll draw it by hand and see if somebody can masage it to a point where it can be done on a proper Cu/TFE PCB(complete with thru-holes for mounting the bits!). I may decide to act as consultant to somebody who wishes to start a business. That is the sort of thing I wind up doing anyway, no sense trying to get paid for it...:) I like sharing the audio magic I happen to discover. Not that the Ferengi Rules of Acquisition would prohibit a bit of Profit.<http://www.dmwright.com/html/ferengi.html> especially like 11, 12 and 27. 57 is eternal. The CCS-based circuitry for Merlin ought to be done with a PCB. Upon further investigation, there are two folks who are in on the current OPTx buy who have experience with PCB printing. I will investigate and see if we can get a run made, or if the artwork can be made public. Let me make a call or two and see what I can turn up. I would like a few of them myself for that matter. Plan on 5W Mills WW plate loads and one more thing can be incorporated into a simple board...:) cheers, Douglas
