
Subject: Super simple linestage.

Posted by [Thrint](#) on Sun, 31 Jul 2005 22:35:07 GMT

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For those who don't need any additional gain I have an idea. It is even all SS, though the development model is completely valve. One needs a high gm, low input capacitance device to act like a cathode follower. Some pentodes work quite well, but a pair of DN2540 mosfets rigged in cascode as in the Guinevere plate loads is even better. No set resistor is needed. Have this device ride on a goooood CCS. Again the Guinevere plate loads will do well, and this time we *WILL* build the complete thing. Set it to sink 10 mA. Attach the volum pot's wiper to the lower gate, and cap couple from its source (as in Guinevere). Supply a +/- 60V set of rails and we're off...low output Z, wideband response, and no silly high voltage capacitors needed. For parts, a 120V CT power TX, two 10 Hy/100 mA chokes and two good capacitors are all that's required. Figure \$100 max if you don't want a gold-plated box...regards, Douglas
