
Subject: front end gain

Posted by [PakProtector](#) on Fri, 13 Jan 2006 21:30:42 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hey-Hey!!!,Using the traditional $g_m \cdot R_{load}$ and then divide by two and we'll arrive at an answer. g_m is going to be ~ 10 mA/V; R_{load} is 10k or gain of 100. Divide by two for the differential circuit, and we get V/V of 50 per phase. Looks like a little more than a volt to deliver the 60V or so to the 2A3 grid. We could try a lower load and take a bit away, but remember to raise the g_2 the correct amount to keep a nice clean area to work the load through. The 12BY7 is a nice tube, and the required data to make these g_2 voltage determinations is available. I am tempted to try its DH cousin...;)cheers,Douglasremember also that the grid choke is going to offer an elliptical load at the LF extreme. Lowering the load (to lower numeric) would alleviate that sort of behaviour a bit.
