Subject: 6S45Pi diff pair input signal headroom
Posted by PakProtector on Fri, 20 May 2005 12:55:29 GMT
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Hey-Hey!!!,If you arrange a common cathode differential pair for phase splitting, one grid will be grounded, and signal will be applied to the other.With the -2V of cathode-grid bias on them, the input headroom will be twice that assuming a few idealizations(like perfectly linear valves). apply a 1V signal (say a DC voltage) and the cathode voltage will increase by 0.5V There will be a +/- mu/2 plate voltage change on the anodes(the input section will go - and the grounded section will go +). The anode-anode voltage change will be mu*input voltage. Accounting for nonlinearities, most of which cause 2nd order distortion, the actual headroom will be slightly different.regards,Douglas