Subject: 6S45Pi diff pair input signal headroom Posted by PakProtector on Fri, 20 May 2005 12:55:29 GMT View Forum Message <> Reply to Message

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

Page 1 of 1 ---- Generated from AudioRoundTable.com