
Subject: Re: 6EJ7 cascode A

Posted by [Damir](#) on Sat, 12 Feb 2005 20:27:09 GMT

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You probably know this, but just in case... Amplification of the cascode is $A = g_m \cdot R_a$, just like in pentode, where g_m is g_m of "compound device, quasy pentode", or $A \sim g_{m1} \cdot R_a$, where g_{m1} is transconductance of the lower triode, IME - always gives a little "optimistic" values. With unbypassed R_k , $g_{m1} \sim g_m / 3$, and with $R_a \sim 8k\Omega$ - $A \sim 40$. Of course, there are "full" formulas for this ("Valve Amplifiers", RDH, "Vacuum tube amplifiers"). For complicated cascode versions there's always SPICE (hey, I have EF184 pentode 3f4 model - if you feel desire for it...). I also thought about cascode RIAA, but that Rout...
