Subject: Re: Silver Lining
Posted by Damir on Wed, 16 Feb 2005 18:10:20 GMT
View Forum Message <> Reply to Message

I must say that I like "overdimensioned" PTs, "Guinevere" PT is maybe more suitable for monobloc SE 2A3 amp (400V taps into LCLC gives about 310V - OK for the "classic" OP: 250V/-45V/60mA + CCS or choke loaded driver).But, if we use another OP, say 300V/50mA/-59V, then we can (probably) make it. But, driver needs some current, and about 400V B+...Anyway, let`s see:Ra=(4,2*59)/0,05 - 800 = 4156 Ohms, lets say "standard" 4k, then:Ua=(mu*Ugk)/(1+rp/Ra) = 146Vrms, and:Pa=Ua^2/Ra=5,3WAvailable current swing give us the power: Pa=Ia^2*Ra=5WAnd Raa = 2Ra=8k, Paa=10W - losses are about 10-15%, and we can expect max. power Pout~8,5W.If we use higher, more "relaxed" load Raa=10k (lower distortion, higher DF, but lower power), we can expect about Pa=9,1W, and Pout~7,7W. Not bad (theoretically)?