
Subject: Another idea :-)

Posted by [Damir](#) on Sat, 25 Dec 2004 20:54:06 GMT

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

Well, how about "enhanced" SRPP, with anode choke in the "upper" R_k position? "Ordinary" SRPP has good features (simple, direct coupling between triodes, every tube has $B+ / 2$ and the same I_a , "upper" tube is load for the lower tube and cathode follower at the same time, etc.), but R_i for the lower tube is not CCS, actually pretty low with lower μ tubes: $R_i = r_p + (\mu + 1)R_k$. If we use CCS or anode choke (choke impedance $Z = 2\pi f L$) for "upper" R_k , then this high R_k is further "multiplied" with upper tube μ , and we have very large R_i ($A \sim \mu$, low distortion) and very low output resistance. We can use anode output on the lower tube, too. Schematic shows values for the "Lundahl" LL1668 choke (100H, 25mA and 680 Ohms DC resistance, R_w). We don't have to use the same R_k like R_w , or the same U_{ak} , or even the same tubes. It's desirable that R_w is low, with values on the schematics we'd get about 11mA through SRPP. Nice thing is that choke parameters ($L, C_w \dots$) are not that critical in this (SRPP) position like in the anode load use. But, I don't have any plate choke to try it in the real world. We need a volunteer to actually try it. (If we use the same double triode for lower and upper tube, then our heater supply must be "referenced" to about 90V - better use one 5687 for both lower triodes and another for upper, the upper U_h referenced to about 200V.).
