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Subject: the Amp

Posted by [PakProtector](#) on Sat, 05 Mar 2005 23:54:30 GMT

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hey-Hey!!!,It seems the amp has been settled upon. It will use the guinevere power Iron comfortably.PP 1624's. this is a glass enveloped version of the 1619. Front end will be a cascode differential amp. One grid grounded so it will SE:PP phase split. One GZ34 rectifier, two 2.5V/2.5A Hammond filament TX's( or perhaps a 5vCT/2.5v-parallel connection with seperate 2.5v windings( PN TBD ). One L-C filter. The 10 Hy/300 mA Hammond is a likely suspect. Perhaps a custom Heyboer... OPTx will be a 10k a-a with g2 taps at 20 and 30%, perhaps 40% as well for future as yet undetermined application/experimentation.CCS for the cathode of the input stage would be very similar to the Guinevere plate loads. Additional CCS for Ec2 ref would be LND150N3 based and similar construction.regards,Douglas

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Subject: Re: the Amp

Posted by [Manualblock](#) on Sun, 06 Mar 2005 00:40:02 GMT

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Sounds good to me.Now I just need a little TLC. On the filament trans I ran one wire from the secondary to each lug on a strip then connected a diode on each lug to the secondary wires. from there I tookthe opposite end of both diodesd and soldered them to one end of a two ohm resistor. I then took the other end of the resistor and soldered it to the pos. end of the first filter cap, with the other end of the filter cap to ground. I also grounded the CT of the RS trans.secondary.Then I took one end of the second 2 ohm resistor and tied that to the pos end of the second filter cap and ran the neg end of the cap to ground. I then took the tab with the res/cap pos end and ran a wire to pin 4 of the 5687. I then ran a wire from pin 5 to ground. Is this correct?

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Subject: Re: the Amp

Posted by [PakProtector](#) on Sun, 06 Mar 2005 00:54:51 GMT

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Looks good to me. Apply voltage slowly while observing for any unexpected behaviour. Use a variac so that you can apply just a little at first if you are worried.regards,Douglas

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Subject: PCB for CCS

Posted by [colinhester](#) on Sun, 06 Mar 2005 01:50:51 GMT

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What do you think it cost to etch approx. 20 boards? I'd much rather go etch than perf board again.....Colin

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Subject: Re: PCB for CCS

Posted by [PakProtector](#) on Sun, 06 Mar 2005 02:37:39 GMT

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I don't know, never done it. Enough practice with perf board and it isn't too hard to stay ignorant about such things...regards,Douglas

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Subject: Re: the Amp

Posted by [Wayne Parham](#) on Sun, 06 Mar 2005 05:13:26 GMT

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I like this idea. Sounds great!

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Subject: Re: PCB for CCS

Posted by [Wayne Parham](#) on Sun, 06 Mar 2005 05:15:07 GMT

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I can get boards etched for us. But we probably better get 100 minimum, and maybe more than that. Anything less than 100 is a waste of money because it will cost almost the same as 10.

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Subject: Re: PCB for CCS

Posted by [Manualblock](#) on Sun, 06 Mar 2005 11:46:21 GMT

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First let me say I have a buddy who did PCB's himself all the time for little projects and it did not seem too difficult to me. He used to spit them out quite frequently. I am going to try the RS stuff and see what happens. I have the CCS on perfboard but I am curious.Thanks for reading my wiring post T; It is just the 12v ct heaters that threw me.

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Subject: T-220 mounting sockets  
Posted by [colinhester](#) on Sun, 06 Mar 2005 12:16:27 GMT  
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Found T-220 mounting sockets at Digikey. They are around \$1.50 per. Any interest? I know they would sure help me out, since I broke a lead screwing around last night....Colin

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Subject: Re: T-220 mounting sockets  
Posted by [Manualblock](#) on Sun, 06 Mar 2005 13:29:17 GMT  
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Minimum order?

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Subject: No minimum but a service charge  
Posted by [colinhester](#) on Sun, 06 Mar 2005 14:55:14 GMT  
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There is a \$25 minimum order w/o service charge. \$5 is added for less than that. Would you like some? I'll get an order together in the next week or so.....Colin

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Subject: Re: No minimum but a service charge  
Posted by [Manualblock](#) on Sun, 06 Mar 2005 15:05:12 GMT  
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Lets see if there are some other parts we can order to make the 25\$ minimum.

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Subject: 1619's  
Posted by [cheetah](#) on Mon, 07 Mar 2005 21:08:20 GMT  
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I know that every likes the glow from the glass tubes, but Fair Radio Sales in Lima, Ohio has NOS 1619s for \$7.00 each. This is going to be hard to beat at that price.Joe

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