Subject: Guinevere construction
Posted by PakProtector on Fri, 11 Feb 2005 18:28:43 GMT
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Hey-Hey!!!,I don't remember if Damir's proposed layout for the plate loads/CCS design has the MOSFET's set at right angles, but I suggest that you do it that way. It might also be best to put them at opposite corners of the board too. they seem to be able to interfere with each other (at least the littler TO-92 can be put close enough to get in each other's way I think).regards,Douglas

Subject: Re: Guinevere construction
Posted by Damir on Fri, 11 Feb 2005 19:36:09 GMT
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I sometimes hate this hobby... Marphy`s Law constantly works against you, every little "trick" you learn hard way, and sometimes I`m not that patient... In the last three days I worked on the small PCBs for the CCS... I somehow ruined three prototipes so far, break nice 0,8mm bore, etc - but the fourth looks promissing. I`d (probably) post a picture in a day or two. In my prototipe I put one transistor on the upright heatsink, and other from the other side of the sink ("shield"), 90° angle between them. I was tempted to put about 50 various "stoppers" in the first version, but finally I`m building it simply, we`ll see. Unfortunately, it`s the MJE350/BC558B/LED CCS and not 2 x DN2540, but the principle can be seen. When I think about it - all that capacitances between the PCB traces just call for troubles, arghh...we`ll see.But, looking at the "Playboy" and mess with real women is not the same, the former is much easyer...bad joke again...Probably all that acid fumes...

Subject: Re: Guinevere construction
Posted by Manualblock on Fri, 11 Feb 2005 19:44:42 GMT
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I don't see the joke, it sounds pretty real to me. Everyone is posting on their enclosure and the parts are not even here. I know from my little experience how hard it is to even make sure all the parts are correct; never mind about getting the circuit right.I am breadboarding/prototyping/checking and re-checking before I even start an enclosure.Put mine on hold until she is humming along.

Subject: And the former will never take your car, or house, or....(nt)
Posted by colinhester on Fri, 11 Feb 2005 19:52:22 GMT

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Subject: Re: Guinevere construction
Posted by PakProtector on Sat, 12 Feb 2005 01:22:51 GMT
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Hey-Hey!!!,I am not trying to make things troublesome for you folks. Like I said in the begining(seems like it was a Looooong time ago sometimes), I have built soem very similar to this. Not one exactly like it, but similar enough I figure we can find all the troublesome details *BEFORE* they bite us on the backside.It is one heck ov a responsibility, and when I make a discovery, especially in an area I thought I had all wrapped up, I am going to tell you about it RIGHT THEN!If this thing started blowing up and I found reason to suspect it of being unstable I would deserve a lot worse that what you would give me if I kept it to myself.I am just ranting along, I am not taking anything personally, just speaking what is on my mind at this time now. Things are progressing a lot more smoooooothly than I anticipated. You guys do have a bit of green invested and I feel the need to shepard your success quite carefully.regards,Douglas

Subject: Re: Guinevere construction
Posted by Manualblock on Sat, 12 Feb 2005 01:33:25 GMT
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You're not ranting; we will know when you are ranting. It's not really that much cash, and all of the parts are interchangeable. Should it start to blow up we'll tell you RIGHT THEN!The only difficult parts I see will be correct wiring of the CCS;Proper dress of the transformer leads;Correct wiring of the filament heater supplies.Did I miss anything?What is of interest now is a specific indication of your plans for a companion amp; and maybe if it is possible to use the extra trans. from Heybeour as OPT's.

Subject: amps...
Posted by PakProtector on Sat, 12 Feb 2005 01:49:38 GMT
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hey-Hey!!!,I would not suggest using power Iron as an oputput TX. I am sure there are circumstances where it would be accpetable, I just can't think of any right now.If a 10W amp is accpetable, the Guinevere PT can certainly do the trick. U-L rigged 6V6's with E-Linear connected

front ends come to mind. With a special modified version of a Peerless 16309 (the OPT from the W5), it would be pretty hard to top. Special attention to screen tap location is key. According to the Lit review I have done for the 6V6, it looks like 20% is the magic number. Hopefully somewhere between 20 and 25% is easy to get with that Iron. I know it is for the bigger S265. For additonal use, and for additional experimentation, it might be best to get more than a single set of taps.I don't like to use a lot more Iron than the job requires, but the 265's have done well for me in designs yeilding 6 Watts, so I am fairly comfortable rcommending this particular Iron for a lot of different apps.For example, the WE sheets give SE operating points for the 300B at 5k loads. For class A PP, this works out to 10k for an equivalent load/condition. There's lots of options, and a complete and thorough understanding of the end-use criterea are critical to making a good design. We certainly did some revising fo the original, minimum cost version of Guinevere. A similar process will yeild good results for the amp as well. regards,Douglas

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Subject: Re: amps...
Posted by Manualblock on Sat, 12 Feb 2005 02:42:27 GMT
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Thanks; The 6v6 sounds good; UL 6v6 I get but can you take a moment to explain E-Linear plaese?BTW I think 10watts is plenty for my speakers all of which are rated above 94 db eff.

Subject: E-Linear
Posted by PakProtector on Sat, 12 Feb 2005 09:56:56 GMT
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Hey-hey!!!,It is a means of feeding balanced NFB around a PP power stage. It is plate-to-grid for the power stage, and is dependant on the plate z of the driver valves and tapping percentage for its amount. I have a schematic drawn by Poinz illustratiing the circuit.regards,Douglas

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