Subject: GPAF Update and Comments
Posted by Jim Griffin on Tue, 09 May 2006 13:10:21 GMT
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Much thanks to Wayne for hosting the GPAF. I had a great time and enjoyed meeting everyone. Too bad that I'm no longer living in Texas so that I could interface with such guys as Fred, Jim, Skip, and others on a more routine basis.I was pleased to receive positive comments from several folks on the line arrays. As Fred said--once you go to line arrays you'll never go back. For the small bipolar CSS FR125S/WR125S MLTL that several of you liked, you can purchase the drivers, terminals, and such from www.creativesound.ca for $260 per pair. The box plans are on the web at:
http://homepage.mac.com/tlinespeakers/FAL/downloads/BipolarMLTLDesignPak.pdfThanks to everyone for a great GPAF experience.Jim
Bipolar MLTL Full Range Speaker

Subject: CSS Bipolar Speakers
Posted by FredT on Wed, 10 May 2006 12:32:14 GMT
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I liked these. They sounded very good, and I think the copper phase plug in each driver is really cool looking. Putting a grill on them would be akin to putting a bra on the Venus de Milo. Linda liked them too; enough to inform me that I'm to build a pair for our son. So I ordered the kit from CSS today!
CSS Driver Bipole Towers

Subject: Re: CSS Bipolar Speakers question
Posted by Shane on Sun, 14 May 2006 02:11:31 GMT
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Jim, I really liked these speakers as well and was wondering what kind of sensitivity they have as a finished product? I see that with the drivers in parallel they are setting at 4 ohms. What kind of amp wattage minimum would you recommend to pair with these?Shane

Subject: Re: CSS Bipolar Speakers question
Posted by Jim Griffin on Sun, 14 May 2006 11:01:53 GMT
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Shane,The drivers are wired in parallel but since their acoustical fields don't overlap (except low in frequency below the baffle step frequency), you get no acoustical gain at say 1000 Hz where sensitivity is normally specified. You do get the benefit of needing no baffle step compensation which can range up to 6 dB with conventional speakers. However, you do get an impedance sensitivity improvement of 3 dB (going from 8 to 4 ohms). As the basic CSS 4.5" driver is rated at 86 dB, you could theorize that these speakers are 89 dB sensitivity. I have run these speakers with a small 30 watts SS amp with very good results (the volume control was less than half way). I suspect that you could get by with less wattage than even 30 watts. On the upper limit of wattage these speakers do seem to go flat as you jack-up their input because thermal compression starts to occur. I suspect that your best listening levels would be under 60 watts input which should produce SPLs just over 100 dB. This level is plenty loud for a small to mid sized room but in a larger space you may wish for more loudness. Jim

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Subject: Thanks Jim
Posted by Shane on Sun, 14 May 2006 15:16:04 GMT
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Thanks. I've got an NAD 320Bee that is rated 40 or 50 watts, I don't remember for sure, so it should do the job nicely!
