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Subject: Using Panasonic ribbon as supertweeter with Pi 7?

Posted by [Eldragon](#) on Mon, 30 Apr 2001 20:37:21 GMT

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I am waiting for JSALVE's post on his Pi7' impressions. Also, would adding of supertweeter, at 10khz be unrealistic? Dragan

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Subject: Re: Using Panasonic ribbon as supertweeter with Pi 7?

Posted by [Wayne Parham](#) on Tue, 01 May 2001 03:58:43 GMT

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I love the sound of a good ribbon tweeter, but I don't think it's a good match with a seven Pi. Ever since I've been making speakers with uniform directivity, I've limited my top crossover frequency to being low enough for constructive summing at all angles within the desired vertical pattern. Supertweeters crossed over in the top-octave don't fit this paradigm because the best possible implementation would only integrate properly straight on the forward axis. Movement of only a couple degrees off-axis puts you into an anti-phase null. Another thing that is a problem is there is usually a mismatch in efficiency and power handling such that the ribbon is too taxed. It needs to be capable of at least 95dB/W/M and to match the dynamic range would need to be able to generate 125dB at full power. Is the Panasonic ribbon up to it?

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Subject: hmmm..i do not think so?

Posted by [Eldragon](#) on Tue, 01 May 2001 17:11:12 GMT

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I guess the sensitivity is an issue. Ribbons are only 87-88db!Anyway did you get the painting yet? Dragan

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Subject: Re: hmmm..i do not think so?

Posted by [Wayne Parham](#) on Tue, 01 May 2001 20:50:41 GMT

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At that sensitivity, you'd have to run a vertical array of them. That might be worth exploring, but it ventures into a whole different realm. I would not use a single ribbon as a supertweeter for a seven Pi loudspeaker. I did not receive your painting yet but I'm watching for it. Looking forward to it! Please post a link to your artwork website. It is excellent and I think everyone here would like to see it!

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Subject: will do as soon as i upload your painting...!

Posted by [Eldragon](#) on Wed, 02 May 2001 03:46:25 GMT

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Please let me know when it gets there! Puno pozdrava! Dragan

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Posted by [Wayne Parham](#) on Wed, 02 May 2001 05:00:14 GMT

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