
Subject: FOSTEX FE166e

Posted by [Stefan](#) on Fri, 21 Jan 2005 06:57:33 GMT

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I'm a beginner in a fullrange speakers.I'm searching a TQWT project for my FE166 Fostex speakersI have found a lot of material regarding FE127, 103, 206.....but nothing for 166.Can you help me with any drawing? Regards. Stefan - Italy

Subject: Re: FOSTEX FE166e

Posted by [Wayne Parham](#) on Fri, 21 Jan 2005 07:39:45 GMT

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You might ask this in the Brines forum too.

Subject: Or Terry.

Posted by [Poindexter](#) on Sat, 22 Jan 2005 04:05:27 GMT

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Terry Cain:Ratcheer whose most popular speak, the Abby, uses the FE166E in a TQWT.Looking at the parameters of the FE166E, I would not have thought it applicable to this load (it looks like a backhorn driver), but he has sold these (under duress!) to no less a light in purist audio than Nelson Pass.Evidently they work okay in this load, and I definitely think that they are the potentially best single speaker in the current Fostex line. Get a pair (you couldn't be sorry), and experiment. You will surely get at least good sound, and as you develop, excellent. Post back with developments, as you become a budding single-driver guru.Don't forget to check back in with developments,Poinz

Subject: Re: Or Terry.

Posted by [roncla](#) on Sat, 22 Jan 2005 16:37:02 GMT

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Evidently they work okay in this load, and I definitely think that they are the potentially best single speaker in the current Fostex line. Yea, i would have thought some series resistance would have been in order, or a tube amp with around 4-6 ohms output resistance or the new amp1 of NP.Maybe it might need the tube or current amp to give the proper response? I have worked with both the 206e and the 166e and found the 166e to give a better mid and HF response , but the overall performance of the 206e makes it a slightly better performer.ron

Subject: Re: FOSTEX FE166e
Posted by [FredT](#) on Sun, 23 Jan 2005 02:01:38 GMT
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There's an interesting Voigt Pipes project on the single driver forum that can use the FE166E. I like it because it's really simple to build and looks nice if you have a tolerance for 6' tall enclosures. I built a pair using this as the basis and documented the construction at the link below. We heard these speakers today at the Dallas Audio Club meeting and I believe all who heard them were impressed. After the meeting these speakers followed somebody to their home in Tulsa.

Voigt Pipes

Subject: Re: FOSTEX FE166e
Posted by [FredT](#) on Sun, 23 Jan 2005 02:05:58 GMT
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Here's a link to the Voigt Pipes project page
[Adventures With the Voigt Pipes](#)

Subject: Re: FOSTEX FE166e
Posted by [jim denton](#) on Mon, 24 Jan 2005 15:50:32 GMT
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Hey Fred!!!---Those darn Pipes trailed me home and I made the mistake of letting them in and they some how took a liking to my DIY 3 Wpc Amp---guess I'll have to keep them now!!!! Stefan, you will not find a better return on investment/sound quality-----just use some very good quality plywood---stuff with no voids (knot holes) ----and as Fred told me, you don't need a monster amp---I have several vintage amps in the 12-25 wpc range but my home brew 3.5Wpc is the cleanest and will rock the room!----And---finally, the BASS question always comes up----You will spend a lot of time and \$\$\$\$ trying to outdo this speaker----You, sir, have been fore-warned!!!
---Jim

Subject: Re: FOSTEX FE166e
Posted by [kloss](#) on Mon, 31 Jan 2005 18:33:25 GMT
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When you purchase fe166e drivers they come with a cabinet design .I have owned V pipes with

fe166e and the nagaoka fostex back horn sounds better balanced than V pipe,I also use fe166es-r cobalt mag .And the design it comes with looks better yet .Iam build 2 pair with fe166es-r, will compare to nagaokas fe166e design.My 17 yearold just built a pair in woods class.And I have my owned pair.Sorry no pics but heres some of my older work
<http://www.audiocraftersguild.com/Xtreme/xtreme.htm>

Subject: link to nagaokas fe166e cabinet design and others
Posted by [kloss](#) on Mon, 31 Jan 2005 18:41:07 GMT
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see link
http://www.fostexinternational.com/docs/speaker_comp/pdf/recom_enclose/166e_enclrev.pdf

Subject: Re: FOSTEX FE166e
Posted by [Stefan](#) on Mon, 07 Feb 2005 08:21:59 GMT
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Yes, very interesting this TQWP.MY QUESTION IS: WHAT ABOUT LOW FREQUENCY RESPONSE?I build a classical TWQT project for fe166, but the mid-bass is very poor.

Subject: Re: FOSTEX FE166e
Posted by [FredT](#) on Mon, 07 Feb 2005 12:18:31 GMT
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I had the same experience (anemic midbass) with a previous project using an 8" Radio Shack driver but was surprised by the strength of the midbass with this latest FE166E project. The room I was using them in provided quite a bit of room reinforcement, so measurments are not too meaningful, but in that room I measured a slight rise between 100 and 70hz, falling sharply below 60hz. Even at the Dallas Audio club meeting in a completely different room placement the midbass did not seem deficient. Jim Denton is now the owner, so maybe he can comment on how they sound in his listening room in Tulsa. Better yet, for a truly objective evaluation, Wayne might be persuaded to go over to Jim's house to listen and provide a professional assessment.

Subject: Jim's house
Posted by [akhilesh](#) on Tue, 08 Feb 2005 17:26:39 GMT

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I would love to hear these if Jim is willing. I can also do rough measurements if needed, and post them here, with a frequency sweep and a radio shack meter. -akhilesh

Subject: 8" RS drive
Posted by [colinhester](#) on Fri, 18 Feb 2005 06:02:24 GMT
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I've got a couple of 8" full range Raio Shack drives sitting around collecting dust. Even though in your expereince they last mid-bass, could you please describe the enclosure. If I build the enclosure for \$40, that's still only \$50 I've sunk into the project.....Colin

Subject: Voigt Pipes Plans
Posted by [FredT](#) on Fri, 18 Feb 2005 10:46:05 GMT
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The original plans are on the single driver web site at the link below. I made my most recent pipes (with the Fostex drivers) about 1" deeper but otherwise the same. Using a front-mounted speaker baffle will enable you to adapt different drivers if you decide to do that later. Also, if you use two joined pieces of meaterial (instead of a single full length piece) for the backs it's possible to build these from a single 4X8 piece of material.

Voigt Pipes Plans

Subject: Re: FOSTEX FE166e
Posted by [Peter Swartz](#) on Mon, 11 Apr 2005 15:37:55 GMT
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Hi Fred, You seem to be quite the expert with these drivers.I just purchased a pair of M500 9 watt amps and I am new to the full range speaker concept but have been an audio nut for many years.I'm interested to learn the Idel cabinet dimentions for a small near field front ported cabinet. Like .5 to .75 cu. ft. but I understand that optimal ratios of demensions can be critical for somd quality. Do you have any suggestions for me? Thanks, Pete
