Subject: Do I treat this as a 6 or 8 ohm driver? Posted by Bill Epstein on Sat, 23 Dec 2006 08:28:17 GMT View Forum Message <> Reply to Message

For building a crossover, say at 3500Hz, is this a 6 or 8 ohm? Fountek Neo CD2 SPL and impedance graph

Subject: Re: Do I treat this as a 6 or 8 ohm driver? Posted by Paul C. on Sat, 23 Dec 2006 16:25:34 GMT View Forum Message <> Reply to Message

The sheet says 7 ohm impedance. The graph looks like 7.5 ohms over the region on both sides of 3500 hz.

Subject: Re: Do I treat this as a 6 or 8 ohm driver? Posted by Bill Epstein on Sat, 23 Dec 2006 22:16:45 GMT View Forum Message <> Reply to Message

The graph sure looks like dead nuts on 6 between 3 and 8K. No?

Subject: Re: Do I treat this as a 6 or 8 ohm driver? Posted by Paul C. on Sat, 23 Dec 2006 22:30:18 GMT View Forum Message <> Reply to Message

Sorry, I had a typo... it is right on 6.5 ohms in that area, not 7.5 as I mistyped.

Subject: Driver impedance Posted by Wayne Parham on Sun, 24 Dec 2006 23:31:03 GMT View Forum Message <> Reply to Message

I would probably model the driver in Spice. You can see driver resonance in the lower end of the response curve, and rising impedance from voice coil inductance at the higher frequencies. This will allow you to curve fit and find a model. Then again, the impedance curve is pretty mild, so

Subject: Re: Driver impedance Posted by Bill Epstein on Mon, 25 Dec 2006 18:12:29 GMT View Forum Message <> Reply to Message

That's what I was thinking, too. Since it'll only see 2 watts, I'll use a first order at 3500.I gave myself the CD-2 ribbons for Hanukkah:) They should be here this week. I cut all the pieces for a 1/2 cu ft box yesterday with the front baffle rising up another 7" to hold it. The top of the 2123 and the bottom of the ribbon will be just a few inches apart.Finished the 2226 cabs this morning and can't wait to hear the completed system.Merry Christmas to you, Wayne, and your family, especially the newest Parham(s).

Subject: Re: Driver impedance Posted by Wayne Parham on Tue, 26 Dec 2006 15:54:05 GMT View Forum Message <> Reply to Message

Thanks, Bill. All the best to you and yours this Hanukkah and always. I hope to see you again soon; It's been too long!

Subject: Re: Do I treat this as a 6 or 8 ohm driver? Posted by dB on Tue, 26 Dec 2006 23:50:57 GMT View Forum Message <> Reply to Message

Hi bill,(and) If Wayne doesn't mind, he can check this tread later, for reinsurance.I used it in a "Spice" simulation sometime before (Feb2006), and boy isn'it great?! (in the graphics & simulations I mean)So, for the Fountek NeoCD2.0 Ribbon Tweeter I used:R=6.5L=0.1mHAnd also you can go lower about to 2K/2nd Order easily if you want.Tell us more when you try, as it sound and the xover you go with.Wayne is of great help allways,Personally I would put it up w a 2order, but you decide and later share with us your preference.Best regards

Subject: Re: Do I treat this as a 6 or 8 ohm driver? Posted by Wayne Parham on Wed, 27 Dec 2006 17:10:56 GMT View Forum Message <> Reply to Message resonance but that isn't needed unless crossover is very low. If the crossover presents only high frequencies to the tweeter, then its mechanical resonance will not interact much with the circuit. Including voice coil inductance in addition to resistance will give a much clearer picture of what is going on in the circuit.

