
Subject: Possible use of Lambda woofer in Pi enclosure.

Posted by [Charlie G](#) on Thu, 03 Jan 2002 00:23:22 GMT

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I've been pondering using a Lambda TD15M driver in a Pi enclosure (similar to the 4 Pi's, I guess). PiAlign gives me reasonable numbers, a bit bigger than the 2226, and a bit smaller than the Delta. Enclosure size comes out around 30x20x14. Though I haven't accounted for woofer & horn displacement yet, so it'll go up a bit. The TD15M is a good bit different than the other drivers though, F_s is very low at 30.5 Hz, and V_{as} is way high at 405 Liters. The Q_{ts} is 0.27, giving a Q_d for PiAlign of 3.703703... Z_{max} is less than 40 ohms. So I could build a fine PiAlign box, but I'm not sure what would happen to the crossover. The TD15M is about 98.1db @ 1 watt, How would I choose a compensation network? My guess would be the 8db one. (this is for the PSD2002, btw, though I might upgrade to the JBL at a later date). As for the crossover for the woofer, the TD15M is about +/-2db up to 1.5Khz, then climbs slowly to 4Khz, where it is about +3db, then rolls off 4th order. Would this imply I could just use a series inductor like with the 2226, or not? With that, I don't know whether the driver's own inductance (L_e) matters or not, but it may be of note that it is very low, 0.2mH, compared to the 2226's 1.75mH. I fully expect that I'd probably end up tweaking the crossover a bit later anyways, but any hints at a good starting point would be appreciated. Thanks much Charlie