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, Fs is very low at 30.5 Hz, and Vas is way high at 405 Liters. The Qts is 0.27, giving a Qd for PiAlign of 3.703703... Zmax 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 just a series inductor like with the 2226, or not? With that, I don't know whether the driver's own inductance (Le) 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 muchCharlie