Subject: RatShack 40-1034 Sub
Posted by Spinjack on Thu, 01 Mar 2007 10:47:39 GMT
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I have a pair of RS 40-1034 drivers that I was planning to use for a subwoofer, but when I model the cabinet in WinISD it comes up with a massive sealed box (basically 3ft x 4ft x 6.75ft)if I want a fairly flat response. To get the box to a "reasonable" size (approx. 1ft x 2ft x 3ft) there is a huge bump starting at about 100Hz, hitting 2 db at about 45Hz, then dropping off to 0db at about 31Hz and -3db at about 27Hz.Is there anything I can do in the crossover/filter that would help flatten the response? My worry is that if a have the filter roll off sooner to compensate then the drop on the back side of the curve will be pretty severe and I'll loose the bottom end. Alternatively, I thought about crossing them over at about 60Hz. But that seems a bit of a waste.I couldn't find actually T-S parameters for these, but one source suggested that they are essensially 40-1026A's whcih have T-S parameters of:Nominal Impedance:.....8 ohmsFrequency Response:.....30 Hz - 3000 HzFree Air Resonance (Fs) Frequency:.....25 HzInfinite Baffle Resonance Frequency:.....23 HzPiston Area (SD):.....0.0523 m2Rated Power Input - Nominal:.....50 WRMS Thermal Power Limit (PMAX):.....100 WFlux Density (BL):.....6.66 TMDC Voice Coil Resistance (RE, ohms):.....5.6 ohmsVoice Coil Inductance (LVC at 1 kHz):.....0.45 mHSPL:.....88 +/- 2 dB/1W/1mMoving Mass (Mms):.....61.5 gElectrical Q Factor (QES):.....1.13Mechanical Q Factor (QMS):.....3.13Total Q Factor:.....0.83Equivalent Acoustic Volume (VAS):.....297.19 IMechanical Suspension Compliance (CMS, UM/N):...766 UM/NMechanical Mass of Cone Assembly and Free Air Load:.....61.46 gMechanical Mass of Cone Assembly Only:.....54.59 gPeak-to-Peak (maximum) Linear Excursion:.....2.90 mmCutout:.....10 1/4 Inches/28.5 cmDepth:.....5 1/4 Inches/14.3 cmPower Handling:.....50 Watts RMSMagnet Weight:.....17.7 ozSpeaker Weight:.....72.9 ozAny thoughts? I was going to use these to supplement some computer monitors I wanted to build, but they now seem a pit overkill for that. So, maybe I'll use them with my Fostex horns.