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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 I 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 lose 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 essentially 40-1026A's which have T-S parameters of:

Nominal Impedance:.....8 ohms  
Frequency Response:.....30 Hz - 3000 Hz  
Free Air Resonance (Fs) Frequency:.....25 Hz  
Infinite Baffle Resonance Frequency:.....23 Hz  
Piston Area (SD):.....0.0523 m<sup>2</sup>  
Rated Power Input - Nominal:.....50 WRMS  
Thermal Power Limit (PMAX):.....100 W  
Flux Density (BL):.....6.66 T  
MDC Voice Coil Resistance (RE, ohms):.....5.6 ohms  
Voice Coil Inductance (LVC at 1 kHz):.....0.45 mH  
SPL:.....88 +/- 2 dB/1W/1m  
Moving Mass (Mms):.....61.5 g  
Electrical Q Factor (QES):.....1.13  
Mechanical Q Factor (QMS):.....3.13  
Total Q Factor:.....0.83  
Equivalent Acoustic Volume (VAS):.....297.19 l  
Mechanical Suspension Compliance (CMS, UM/N):...766 UM/N  
Mechanical Mass of Cone Assembly and Free Air Load:.....61.46 g  
Mechanical Mass of Cone Assembly Only:.....54.59 g  
Peak-to-Peak (maximum) Linear Excursion:.....2.90 mm  
Cutout:.....10 1/4 Inches/28.5 cm  
Depth:.....5 1/4 Inches/14.3 cm  
Power Handling:.....50 Watts RMS  
Magnet Weight:.....17.7 oz  
Speaker Weight:.....72.9 oz

Any thoughts? I was going to use these to supplement some computer monitors I wanted to build, but they now seem a bit overkill for that. So, maybe I'll use them with my Fostex horns.

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