
Subject: RatShack 40-1034 Sub
Posted by [Spinjack](#) on Thu, 01 Mar 2007 10:47:39 GMT
[View Forum Message](#) <> [Reply to Message](#)

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 m²
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.
