
Subject: Woofer / alignment comparison...

Posted by [jeff mai](#) on Tue, 13 May 2003 09:28:16 GMT

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Thanks for the response below, Wayne. I've attached a graph comparing an intriguing looking Beyma 12K200 woofer to a JBL 2206H woofer in a Pi-Aligned cabinet. The T/S parms for the Beyma unit are: $F_s = 35\text{Hz}$ $R_e = 6.2\ \text{ohms}$ $Q_{ms} = 11.17$ $Q_{es} = 0.229$ $Q_{ts} = 0.225$ $V_{as} = 160\ \text{liters}$ $C_{ms} = 383\ \mu\text{m}$ / $N_{rms} = 1\ \text{kg}$ / $sn_0 = 2.9\%$ $S_d = 0.053\ \text{m}^2$ $X_{max} = 4.5\ \text{mm}$ $L_e = 0.8\ \text{mH}$ I also compared the Beyma unit in a "shelved" type alignment you mentioned in the previous thread. I think the Beyma compares well to the JBL, though its distortion figures and build quality are certainly not going to match the JBL. Comments? I guess my main questions are: How realistically will these graphs represent the true frequency response? And, which sort of alignment is likely to give best in room response? And if the answer to the previous question is "it depends on the room" is it worthwhile trying to tailor the alignment to the room? Anyone feel free to chime in. Thanks, Jeff Mai