
Subject: Bass Driver for horn

Posted by [Tom A.](#) on Tue, 28 Jun 2005 15:45:10 GMT

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for my application (home theater). I have a choice between two drivers right now, both 15" high power PA speakers. The spec's of driver----- driver A: $L_e=.73$
 $R_e=3.97$ 30-2,500 hz response $F_s=38.9\text{Hz}$ $V_{as}=6.0\text{cu.ft.}$ $Q_{ms}=4.06$ $Q_{es}=.39$ $Q_{ts}=.36$ $SPL=96.5$
 $X_{max}=2.3\text{mm}$ -----driver B: $L_e=.70$ $R_e=5.2$ 40-4000
response $F_s=44.2$ $V_{as}=6.42$ cu.ft. $Q_{ms}=9.2$ $Q_{es}=.38$ $Q_{ts}=.36$ $SPL=100$ db/m
 $X_{max}=2.5\text{mm}$ ----- with the Q_{ms} , Q_{es} , and F_s being
different enough, is there a clear winner between the two? My target SPL after horn loading is
104-105 db/m and I need a HF crossover point of about 300Hz. Does the lower Q_{ms} of driver A
result in a smoother response curve?.....Thanks, James
