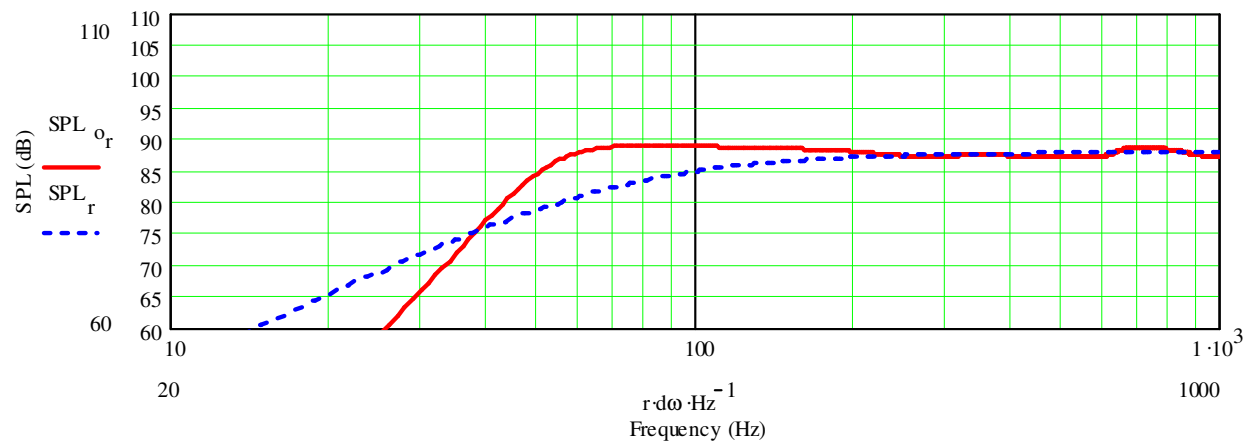


Mark Audio Alpair 7 Gold



The sim indicates a small lift in the bass but a nice roll of. Light damping could be added in the last part of the line (not the opening).

General: A promising candidate.

$f_d := 70.9 \cdot \text{Hz}$ $R_e := 5.4 \cdot \Omega$ $L_{vc} := 0.0213 \cdot \text{mH}$ $Bl := 3.83 \cdot \frac{\text{newton}}{\text{amp}}$ $S_d := 50.2 \cdot \text{cm}^2$

$V_{ad} := 4.58 \cdot \text{liter}$ $Q_{ed} := 0.65$ $Q_{md} := 3.07$ $Q_{td} := \left(\frac{1}{Q_{ed}} + \frac{1}{Q_{md}} \right)^{-1}$ $Q_{td} = 0.536$

Closed End of Transmission Line (Driver ---> Closed End)

Section Length	Initial Area	Final Area	Stuffing Density
$L_{c_0} := 8 \cdot \text{in}$	$S_{c_{0,0}} := 2.55 \cdot S_d$	$S_{c_{0,1}} := 2.55 \cdot S_d$	$D_{c_0} := 0.9 \cdot \text{lb} \cdot \text{ft}^{-3}$
			+

Open End of Transmission Line (Driver ---> Open End)

Section Length	Initial Area	Final Area	Stuffing Density
$L_{o_0} := 12 \cdot \text{in}$	$S_{o_{0,0}} := 2.55 \cdot S_d$	$S_{o_{0,1}} := 2.55 \cdot S_d$	$D_{o_0} := 0.9 \cdot \text{lb} \cdot \text{ft}^{-3}$
$L_{o_1} := 10 \cdot \text{in}$	$S_{o_{1,0}} := 2.55 \cdot S_d$	$S_{o_{1,1}} := 2.55 \cdot S_d$	$D_{o_1} := 0.0 \cdot \text{lb} \cdot \text{ft}^{-3}$
$L_{o_2} := 3.8 \cdot \text{in}$	$S_{o_{2,0}} := 0.3187 \cdot S_d$	$S_{o_{2,1}} := 0.3187 \cdot S_d$	$D_{o_2} := 0.0 \cdot \text{lb} \cdot \text{ft}^{-3}$

Stuffing upper 2/3 lb 0.207