
Subject: Re: Beta 12LT in PiAlign'ed cabinet
Posted by [Observator](#) on Wed, 26 Sep 2001 14:10:37 GMT
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Hi Wayne,> PiAlign recommends a bass reflex cabinet of 2.4 cubic feet tuned to > 33.75Hz and having Q of 1.5. It recommends doing this using a 2.5" > diameter port that's 2.75" long, which is very close to a perfect > match - corresponding to Frd of 34.0Hz and Q of 1.56. I just verified this calculs and unfortunately this doesn't workfor me. In your whitepaper for the port calculation I read:
$$F_{re} = 1/(2\pi) \cdot (A_p / (V_e \cdot L_c))^{1/2}$$
If $D_p=2.5$ and $L_p=2.75$, then $L_c= 4.87$, if $D_p=2.5$ then $A_p=\pi \cdot (D_p/2)^2 = 4.91$, and then for $V_e=2.4$ i have $F_{re} = 0.10312$ and not 33.75 Hz as you said. ($Q_e = 1.54$ with no problem)What's wrong ?Thanks in advance,O'Tor