
Subject: Re: PiAlign RS1354?

Posted by [Otor](#) on Thu, 03 Jan 2002 13:44:13 GMT

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Hi Craig, I calculated Pi Align for RS-1354 some time ago, but not built them. Where I was confused was a really small port dimensions. In the Pi align, there is another factor to be considered, which is the ratio $Q_e = L_p^2 / A_p$. For RS-1354 in 0.234 cu ft Pi aligned box tuned to 41.6 Hz, this ratio is 2.206. The only possible port dimension I found is $D_p = 0.414"$ and $L_p = 0.545"$ - not a huge port, it risks to produce some noise, IMHO. I do not understand exactly how important is to keep this ratio close to calculated Q_e value. What's more important: use such a small port or make the port bigger and then keep right values for Q_e or rather for F_{re} ? O'tor
