
Subject: From DrD

Posted by [Eric Gonzales](#) on Thu, 18 Oct 2007 03:39:25 GMT

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By the usual T/S pipe-horn calculations Greg Monfort came up with, it'd need a bloody big box due to that high $0.657Q_t$ (see specs sheet 003 you sent). Footprint would be $\sim 150\text{in}^2$, plus build materials, which is a bit daft for a small driver. However, due to V_{as} being low, an under-sized box with a CSA of 65in^2 can be used, because although the LF drops off compared to the \sim 'ideal', in the LF it's still at least 10db over the driver's nominal IB response, & \sim flat to about 34Hz & that's before room-gain kicks in. See the example FR I've attached for a 64in tall box with driver 27.75in down & 65in^2 terminus CSA. The low V_{as} also means the box air-mass should still be sufficient to help keep the the driver in check. Basically, it's not going to be too critical. Minimum CSA 65in^2 , anything you can add to that up to about 145in^2 is a bonus. The 64in tall box BTW looks favourite to me, so it's tuned fractionally below F_s .
