
Subject: Re: Thiel-Small Parameter Search
Posted by [GM](#) on Sat, 03 Sep 2005 03:29:44 GMT

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Greetings! These are car audio 'IB' sub drivers so OB, very large sealed, or aperiodic is best, with the latter yielding the highest SQ. It's specs are ideal for a 'classic' stuffed TQWT and going isobaric will keep the line's CSA reasonable, so 12" square (inside dims) should work fine and a ~93.63" pathlength will tune it to ~30 Hz if stuffed along its length with ~48 oz of R-19 fiberglass. The beauty of this design is that the specs can be off quite a bit and still perform well by adjusting the amount of stuffing. Catalog specs: $F_s = 30 \text{ Hz}$ $V_{as} = 6.83 \text{ ft}^3$ $Q_{ts} = 1.04$ $P_e (\text{RMS}/\text{max}) = 75/150$ $W_{sens} = 88 \text{ dB}/\text{W}/\text{m}$ (+/- 2 dB) nominal 8 ohms GM
