Subject: Re: 100dB/watt at 20 Hz is overkill.
Posted by Bill Fitzmaurice on Mon, 15 Mar 2004 22:29:32 GMT
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You're on the right track. For Pro-sound horn loaded efficiency is necessary only down to 40 or 50 Hz, and if you design the box with a gradual (12dB) rolloff below Fc (minimal reactance annulling so that the driver reverts to direct radiator mode for the octave below Fc) there is still plenty of power available for the lower octave. As for drivers, the biggest problem is that designers tend to use drivers with Fs way too low. Eminence has come out with a 12 inch Magnum (I already have a prototype in hand and it is nice) with a 43 Hz Fs that is much more amenable to horn loading than the Lab12 for pro-sound duty.