Subject: Re: 4Pi crossover study
Posted by Joe Sever on Fri, 19 Jul 2013 12:08:53 GMT
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Thanks for the reply, Bruce.

Two other possibilities have occurred to me. One is, as you suggest, that my mic is in a null - I'll check this evening. I'm actually hoping this is the case, though I think not given the linear nature of the dropoff and that it gets worse at the upper extreme of the response.

The other is that the amp's OPTs are rolling off. I really doubt the latter as others have measured them as ruler flat.

FWIW I'm using REW, with a calibrated Dayton EMM-6 mic through an MXL USB Mic Mate. I've been measuring in my small room with the speaker in its normal listening position; I really need to lay it on its back, though that may just clean up the hump and dip (floor bounce?) that I see well below the crossover point.

Wayne - Many thanks for your input.

While I appreciate that the SEOS may be introducing ripple on top of my other issue(s), my approach is to address one issue at a time. I'm certainly not married to this particular horn.

My primary issue at the moment is that the mass rolloff doesn't appear to be touched by the compensation circuit - it's an obvious 12dB dropoff from 6K-20K. My fear is that while another horn may be a better bet in the long run, I'll still be left with this weird rolloff to deal with.

I'll post some images of the measurements - maybe something will jump out that I'm not adequately describing. And though I hate to disturb my pretty soldering, I should probably also measure without the compensation circuit in place to see what, if anything, it's doing.