Subject: AE TD12S
Posted by Wayne Parham on Thu, 02 Jul 2009 15:03:32 GMT
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and if this woofer works out, it will provide an upgrade option for that speaker.

I just did the electro-mechanical tests, and am now doing an in-box impedance sweep to make a ZMA file for the ICD. Then I'll use the ICD to look at the on-axis and off-axis response. If the woofer is smooth through the midrange (as I expect), then I'll make sure the crossover sets the forward lobe and vertical nulls where they should be, and if not, make changes accordingly.

Sure is nice to be able to have a tool like this. No more spending days trying to calculate phase and distances to estimate the position of the nulls, only to measure after the fact. WTPro makes it easy!

Subject: Re: AE TD12S
Posted by Keith Larson on Fri, 03 Jul 2009 04:31:14 GMT
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I just had a look at the AE TD12S and it looks like a great driver. One thing I could not quite make out is if it is actually under-hung because the last picture shows an over-hung motor. Then I read that the top plate is 19mm thick, and Le is quite low, so I suppose it is under-hung.

Subject: Re: AE TD12S
Posted by Wayne Parham on Sat, 18 Jul 2009 23:32:49 GMT
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It's a hybrid, actually, with the top plate shorter than the coil (like overhung designs) and a center pole that's much longer (like underhung designs). It also has a shorting ring that runs the length of the center pole:

I've put more info about this driver and what I've done to design a speaker with it using your WTPro system at the link below:
Crossover optimization for DI-matched two-way speakers

Subject: Re: AE TD12S
Posted by Keith Larson on Mon, 20 Jul 2009 19:41:05 GMT
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Ah, an extended pole piece with a decent copper Faraday ring.