
Subject: Re: FredT -MLTL Bipole speaker impressions
Posted by [Jim Griffin](#) on Wed, 28 Jun 2006 02:05:42 GMT
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Fred, Thanks again for your observations and acute listening. I'm glad that you like these speakers. They produce an exceptionally nice sound when used within their limits. Your comments on the power levels of 94 dB peaks at the listening position are close to my calculated output levels under these conditions. At a 10' listening distance you are down about 10 dB sound level from the usual 1 meter SPL rated specification. Remember that the sound is falling at a 6 dB per doubling of distance rate from a point source. If you run the Martin King MLTL spread sheets for 60 watts input to the speaker (30 watts per speaker), you'll find that you are at the Xmax limit of 6 mm for this driver under such conditions. Thus under these conditions, the SPL level produced by the speaker at 1 meter is 106 dB. Hence, at your listening position you'll measure about 96 dB SPL. This is close to your 94 dB SPL figure. As you imply, most people usually listen at SPL levels in the 80 to 90 dB value even for loud sound. So anything above that level is at the 'turn that damn thing down' level. Bottom line is that these speakers will satisfy most listeners in a small to medium sized room but if you are a hard rocker who wishes for high SPLs in a large room, then these speakers may not be for you. Jim
