Subject: Re: Intermodulation, phase and Doppler distortion, and then some
Posted by Bill Wassilak on Sat, 12 Aug 2006 06:02:01 GMT
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Wayne,I don't agree with the phase shift theory's because you can't hear phase shift unless there's significant time delay's involved,so I don't agree with this: ::a low frequency tone so a higher frequency cone movement must ride upon this shift, which causes a phase shift.At a certain point the higher frequencies depending what they are, are ethier going to add,subtract or cancel(within the harmonics of the lows, at certain frequencies and x-over points) causing peaks or notches in the overall operating band width of the response.Isn't this modulating (the highs am style, aka IMD) In a limited bandwith the response with respect to the lows??This statement I some what agree with:::The other is a non-linearity caused when the driver is pushed nearing or (not really) exceeding Xmax,:: where the voice coil has less drive force because it partially "moves out of the gap.(bad news unless your hitting the bottom plate and/or sliding V.C.back into the front of the gap)This causes it to become non-linear at high drive levels.(TRUE).Dont, worry because power compression will set in long before hand which will reduce your output 3-7 db because of voice-coil heating. Even though your amps are at full power and not clipping, so don'tboost your lows if you think there lacking.Time to get off of here,Mr.Seagrams is calling(so I maybe full of s__t)Not sure though.