Subject: Beta 8A in a 2-way
Posted by AstroSonic on Fri, 21 Dec 2007 16:01:08 GMT
View Forum Message <> Reply to Message

Anyone have some experience with the Eminence Beta 8A? It looks like a good candidate for a bass-mid driver in a fairly compact, moderately efficient, 2-way speaker system. In particular, it appears to have a fairly smooth response up to around 4kHz followed by a smooth, steep rolloff. It looks pretty good on paper. Seems like it could be run wide open, with a tweeter brought in at 4kHz. Is it usable at the upper end of its range without excessive audible peakiness or does it need to be crossed over earlier. How is the midrange/low HF quality of this driver?Regards,Bob

Subject: Re: Beta 8A in a 2-way
Posted by Wayne Parham on Sat, 22 Dec 2007 14:54:48 GMT
View Forum Message <> Reply to Message

Those are decent little drivers, much like the Alpha 8. They make a good two-way speaker crossed at 4kHz, just like you describe. You can't press them for much bass extension, but you can always add a sub. When used in a very small room they sound nice even without a sub. They have good clear midrange and smooth response overall.

Subject: Re: Beta 8A in a 2-way
Posted by AstroSonic on Sun, 23 Dec 2007 16:17:19 GMT
View Forum Message <> Reply to Message

Wayne,In your experience, do the Eminence drivers come within ballpark of their published T/S specs?I will be using them in a small to medium size room and will probably add a sub. Preliminary modeling suggests that they could go to about 50Hz using an EBS alignment and room-lift. I am inclined to design for strong (near flat) response to around 65Hz, letting them handle the 'slam' frequencies and the sub handle the deeper bass.The response curve showing the 4kHz rolloff is probably an on-axis measurement. Any idea where the rolloff starts at 30 - 45 degrees off-axis? I suspect that to get a relatively smooth response and good in-room balance I will need to bring the tweeter in a bit earlier (3 - 3.5 kHz?). Well, experimentation is part of the fun.Thanks for the help, andBest regards,Bob

Subject: Re: Beta 8A in a 2-way
Posted by Wayne Parham on Sun, 23 Dec 2007 17:51:04 GMT
View Forum Message <> Reply to Message

Eminence is pretty good at providing accurate specs. I haven't measured off-axis, but I would expect the driver to start becoming directional around 2.5kHz.

Subject: Re: Beta 8A in a 2-way/ Astro
Posted by Scott L on Sat, 23 Feb 2008 16:52:15 GMT
View Forum Message <> Reply to Message

Bob, After careful consideration, and mostly because I have read this post, I have decided to design a small monitor based on this driver.Currently, I live in a small apartment, so these will suffice for quite a while. I haven't decided on a tweeter yet, but was wondering how far along your project is ? thanks, scott

---