

---

Subject: Re: Hi-Efficiency vs Lo-Efficiency Speakers  
Posted by [Wayne Parham](#) on Sun, 09 Jan 2005 09:20:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Earl,I agree with you about directivity. I didn't mention it because while most high-efficiency speakers are (directional) horns, not all are.About shorting rings, I'm not sure how they could reduce odd-order harmonics. I think that mechanical suspension movements and reduction of excursion reduce third-order though, so some of the better high-efficiency drivers probably have reduced third-order from improvements in that regard, in addition to reduced even-order distortion from the use of flux control rings.Wayne

---