Subject: Re: HF Compression driver without horn flare?
Posted by Wayne Parham on Sun, 19 Jun 2005 13:27:47 GMT
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A compression driver used without a horn is basically a dome midrange/tweeter. The TAD 4001 has a beryllium 4" diaphragm, a 5 slit phase plug and a 2" diameter throat. Do you know if Deep Audio removes the cover and phase plug and radiates off the diaphragm side, or do they leave the plug installed and output through the throat when using the device as a direct radiator?As for

radiating cone woofer and dome tweeter. The tweeter is designed with a wide surround and is capable of relatively high excursion, making a first-order crossover possible. The woofer becomes increasingly directional as frequency goes up, but the crossover range is very wide because of the use of a first-order crossover. So there isn't an abrupt change in directionality due

loudspeakers use DI matching between the cone woofer and horn loaded tweeter. Crossover is done where the woofer directionality narrows to match that of the horn tweeter. This prevents a sudden change in in directionality because the woofer and tweeter are about the same at the

radiation to the 90° wall angle. This is matched by the midrange and tweeter directionality, since both also use 90° flares.