SH240

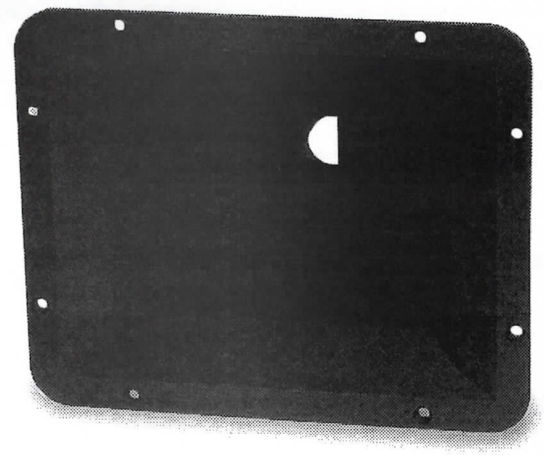
Constant 80 degree horizontal coverage

Constant 45 degree vertical coverage

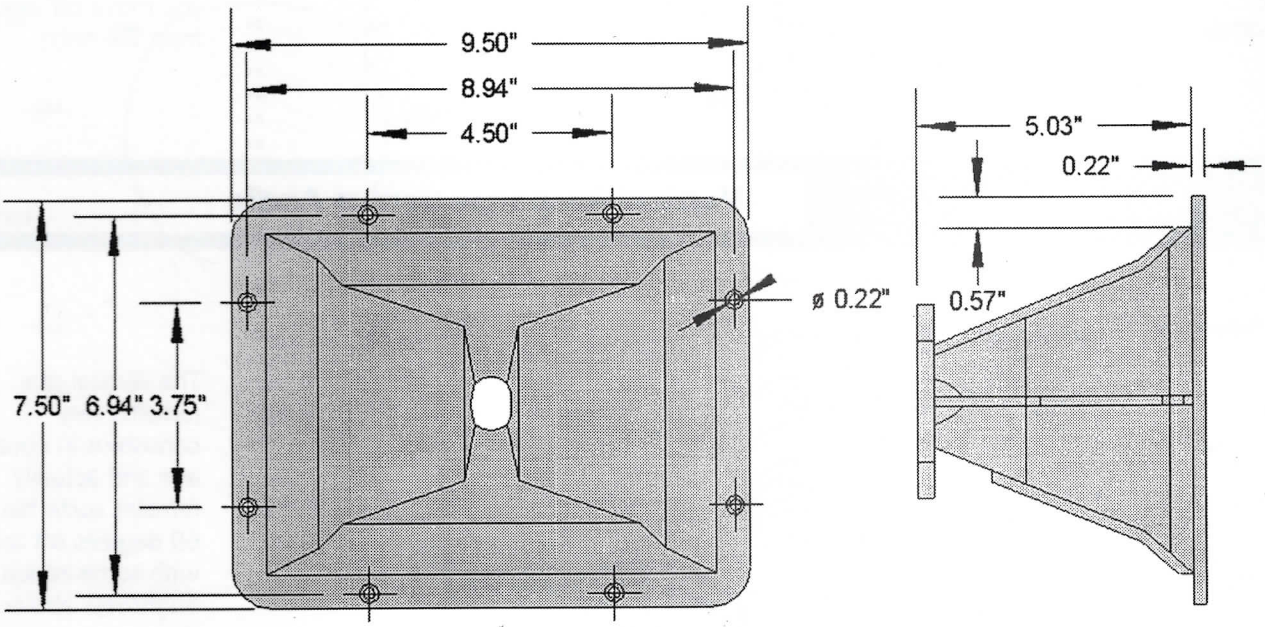
Rugged glass filled ABS

Low frequency coupling down to 750hz

Standard 1" throat with both 2 bolt and 3 bolt patterns

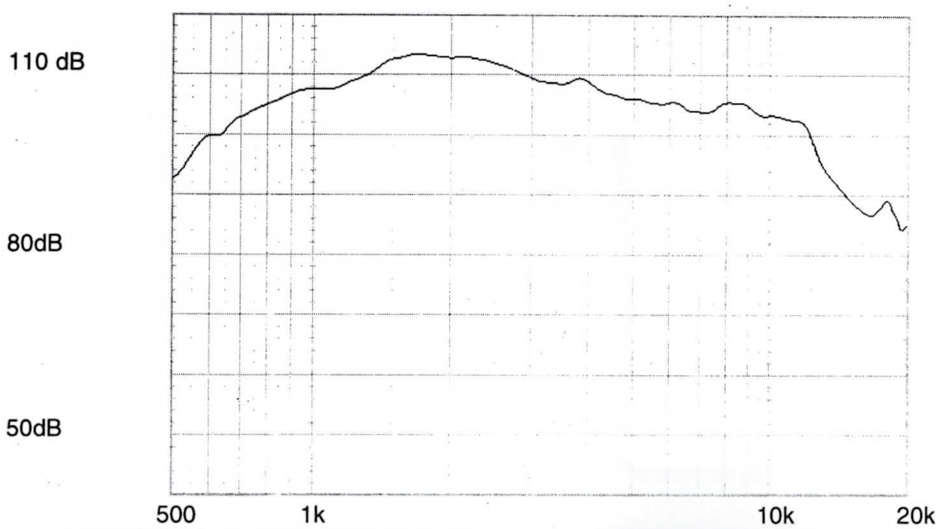


The SH240 is a small format, one inch throat horn with constant horizontal and vertical coverage. This makes the horn suitable in applications where dual horns may be used or multiple cabinets are set in a tight array. This horn can also work well in compact cabinet designs for smaller venues or confined areas. The horizontal and vertical coverage makes this horn a good candidate as a very high frequency horn in a large format, multi-way system also. The horn finish is matte-black so it will compliment other drivers in the array without being obtrusive in appearance and the horn face has an eight bolt pattern to avoid cabinet leaks. The compact design also makes it easier to fit the device into tightly clustered driver arrays to minimize lobing and maximize total system pattern control. Due to the non-equalizing, constant coverage design in both axis, it is recommended that drivers with high force to mass ratios are used for best results. Overall, the SH240 combines compactness with good overall response and excellent pattern control for many applications.



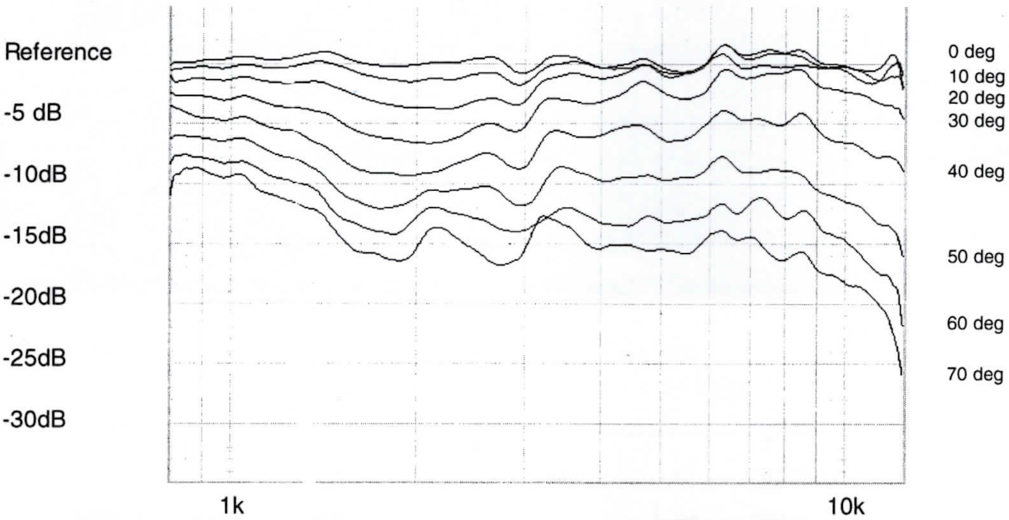
* Unit shown in horizontal orientation

SH240 — On Axis Response (With SM107 Driver, 1 watt, 1 meter)



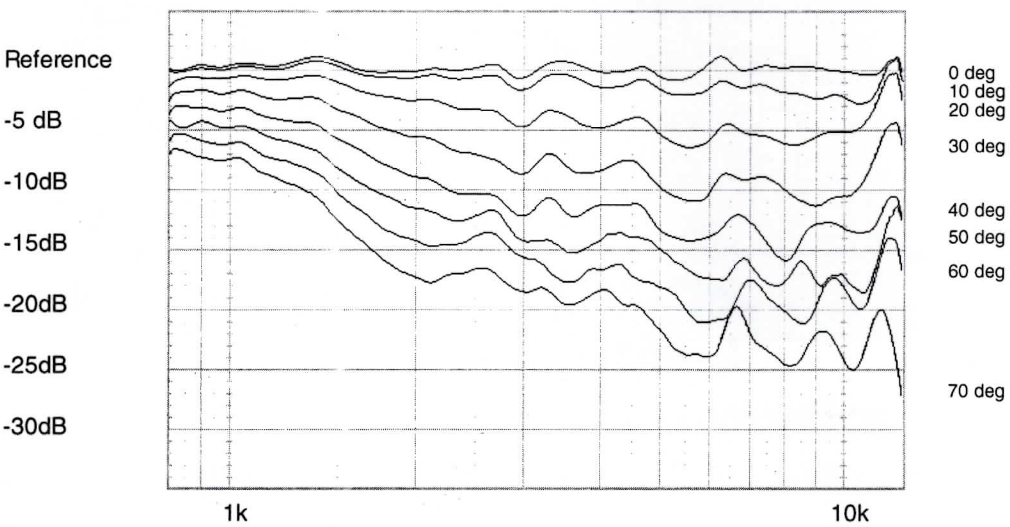
Although the SH450 appears to have soft high frequency response on axis, this is not the case for the total energy from the device due to constant coverage in both axes.

SH240 — Horizontal Response versus Angle



This chart shows the horizontal off axis response of the horn based on an equalized on axis signal. Notice the upper midrange will actually get a little more present as you move off axis from the horn.

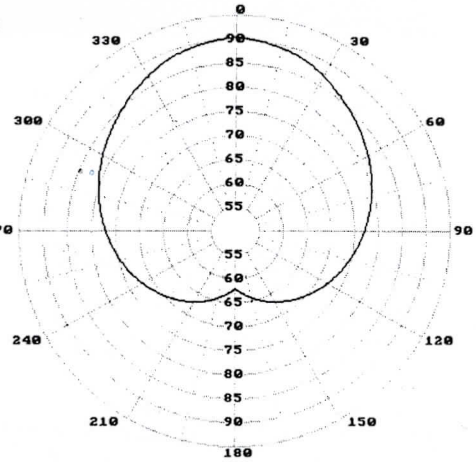
SH240 — Vertical Response versus Angle



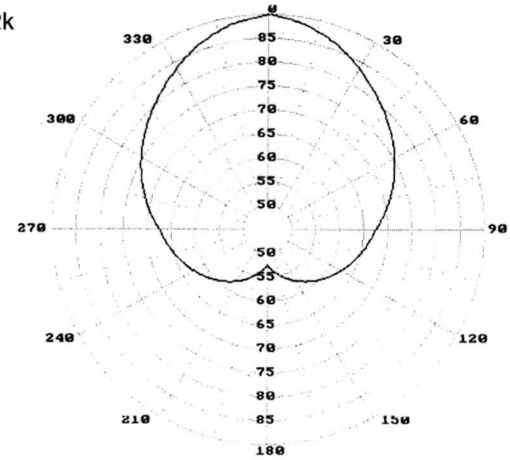
The vertical axis remains very consistent in coverage and actually remains quite flat to 60 degrees off axis with some added brightness above 10 Khz.

Horizontal Polar Charts

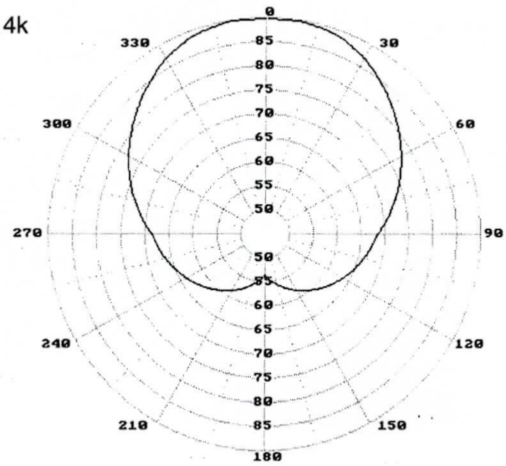
1k



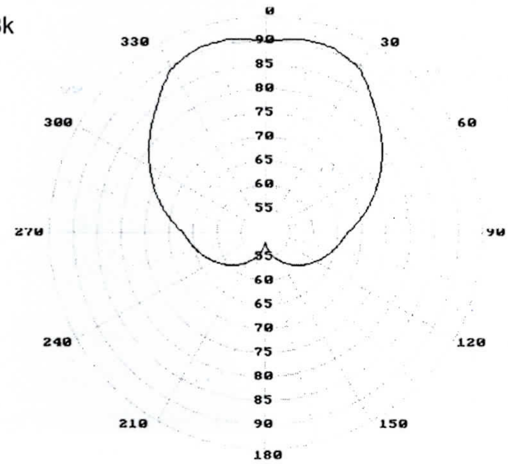
2k



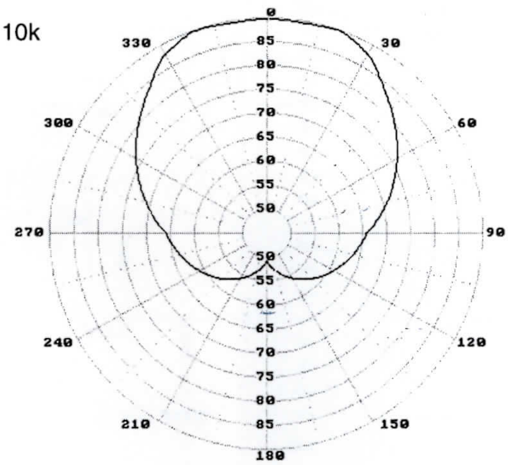
4k



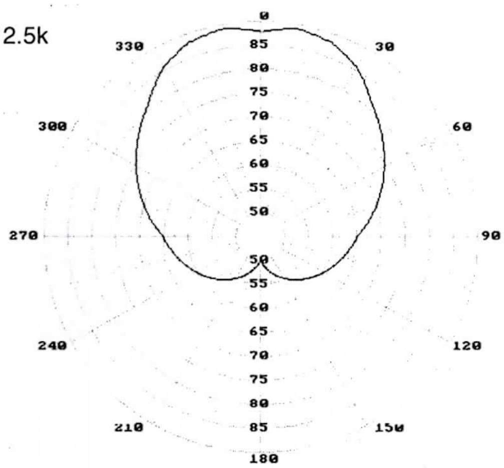
8k



10k



12.5k



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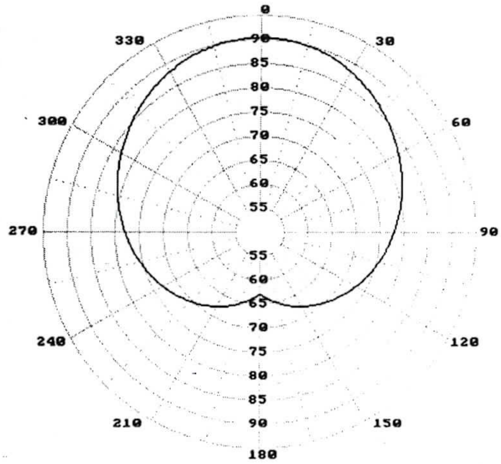
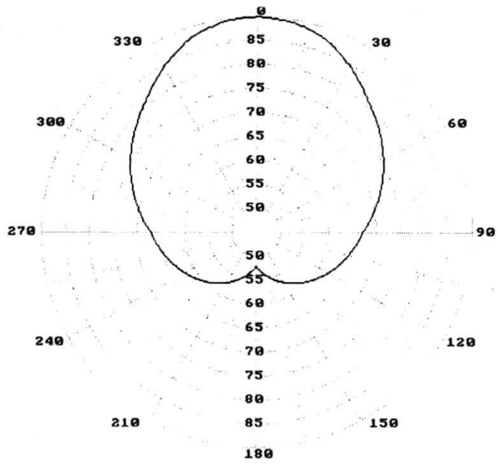
Note: All data shown in this document is measured in free field conditions with -6db points used for both coverage and response limits. Data on a varying coverage axis is shown based on coverage at 3khz.

Vertical Polar Charts

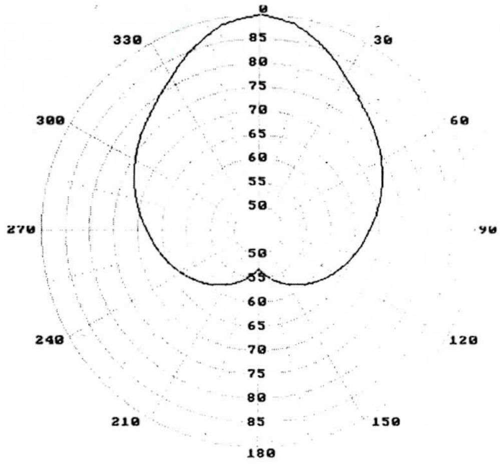
1k



2k



4k



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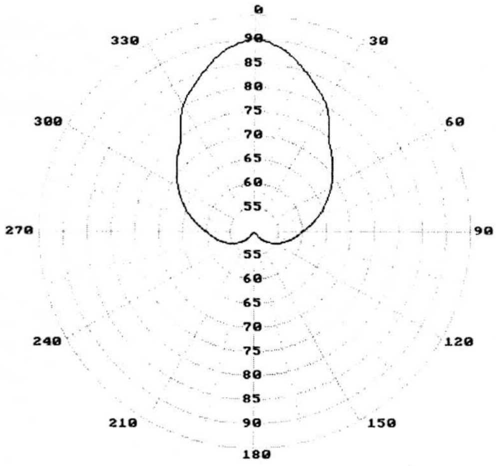

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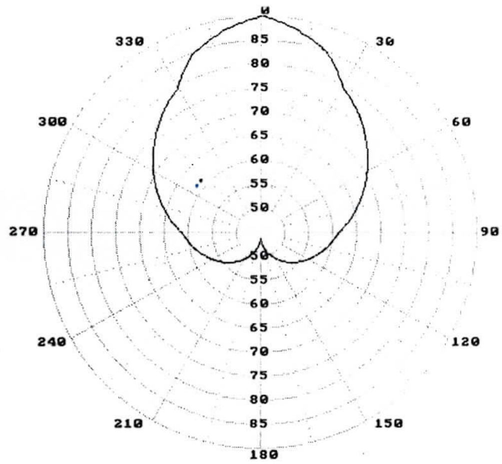
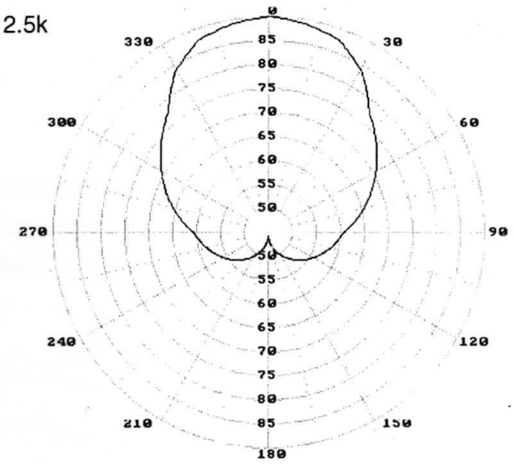


12.5k



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