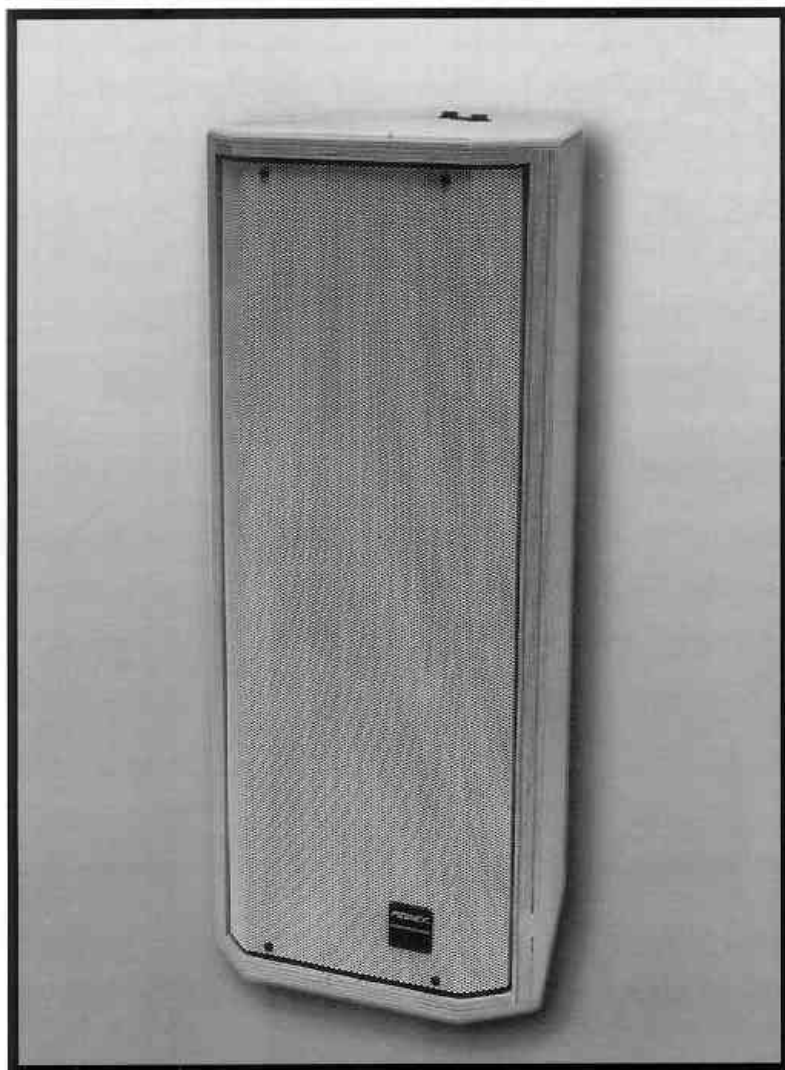


SPECIFICATIONS



IMPULSE™ 2652 Permanent Installation, Trapezoidal Flying

SPECIFICATIONS

Frequency Response, 1 meter,
on-axis, swept sine in anechoic
environment:

100 Hz to 18 kHz ± 3 dB

Low-Frequency Cut-Off
(-3 dB point):

100 Hz

Usable Low-Frequency Limit
(-10 dB point):

87 Hz

Power Handling:

150 W continuous (34.6 V RMS)

300 W program

600 W peak

Sound Pressure Level, 2.8 V
(1 watt), 1 meter in anechoic
environment:

94 dB

Maximum Sound Pressure Level:
116 dB

Radiation Angle Measured at -6 dB
Point of Polar Response:

500 Hz to 1.6 kHz:

Horizontal: $127^\circ \pm 17^\circ$

Vertical: $87^\circ \pm 20^\circ$

1.6 kHz to 5 kHz:

Horizontal: $93^\circ \pm 32^\circ$

Vertical: $51^\circ \pm 17^\circ$

5 kHz to 16 kHz:

Horizontal: $45^\circ \pm 3^\circ$

Vertical: $41^\circ \pm 6^\circ$

Directivity Factor, Q (Mean):

9.4

Directivity Index, D_i (Mean):

8.7 dB

Transducer Complement:

Two 6-1/2" woofers

One 22XT™ compression driver on
exponential horn

Box Tuning Frequency:

75 Hz

Harmonic Distortion:

1/100 rated power

2nd harmonic:

100 Hz, 0.4%

1 kHz, 0.4%

3rd harmonic:

100 Hz, 0.44%

1 kHz, 0.56%

1/10 rated power

2nd harmonic:

100 Hz, 0.56%

1 kHz, 1%

3rd harmonic:

100 Hz, 0.44%

1 kHz, 0.8%

Input Connections:

Four-position barrier strip and
Neutrik® Speakon®

Impedance:

8 ohms (nominal)

6.1 ohms (minimum)

Crossover Frequency:

3000 Hz

Enclosure Materials & Finish:

Painted Finish:

3/4" 7-ply, Poplar-faced, high-density
plywood, gray lacquer paint finish, black
grille

Natural Finish: (illustrated)

18 mm 13-ply Birch, void-free plywood,
(ready for finish of user's choice), white
grille

Dimensions (H x W x D):

24" H x 10" W x 9-1/2" D front

24" H x 5-1/2" W back

Net Weight:

32 lbs.

Mounting:

Four total optional SV™ 2652 mounting
bracket flying points: 2 load-bearing (1 top/1
bottom), 2 aiming (on back), 1/2" x 13 plug



nuts built into enclosure. Use only 1/2" forged shoulder machinery eye bolt, mil spec MS 51937-5.

DESCRIPTION

The Impulse™ 2652 is a two-way system designed primarily for voice projection and high SPL level paging. It is equally suited for side and under balcony fills in auditoriums for live music sound reinforcement. The system consists of two 6-1/2" woofers and one 22XT compression driver coupled with a conical, high-frequency horn. The cabinet is trapezoidal for easy corner or array placement. It is fitted with four threaded inserts for flying. As an option, these same flying points mate to a tilt or swivel wall-mount bracket, the SV 2652™.

This system will perform with excellent versatility in gymnasiums, auditoriums, restaurants, entertainment arenas, places of worship, and anywhere a smaller size but equally efficient sound reinforcement system is required.

DIRECTIVITY

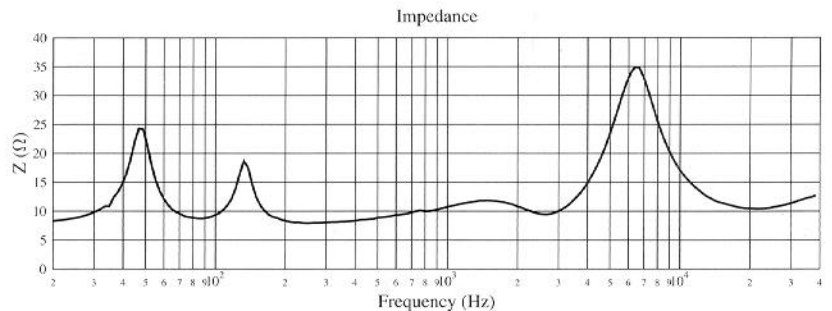
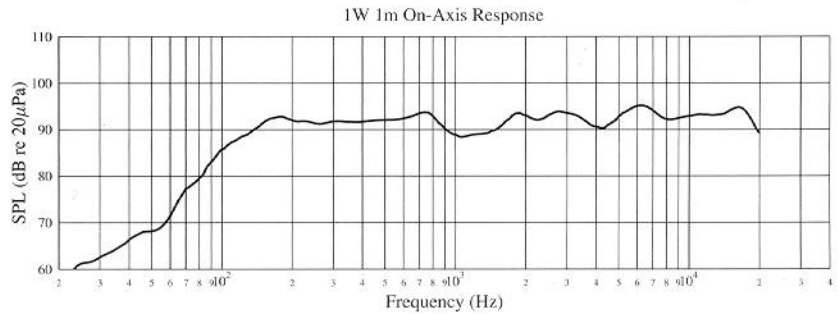
Beamwidth and directivity factors are derived from the -6 dB points from the polar plots, which are measured in a whole-space anechoic environment. These are specifications which provide a reference to the coverage characteristics of the enclosure. These parameters provide insight for proper enclosure placement and installation in the chosen environment. The blending of the components exhibits a desirable beamwidth and directivity factor (figures 3 and 4) suitable for all permanent installations.

FREQUENCY RESPONSE

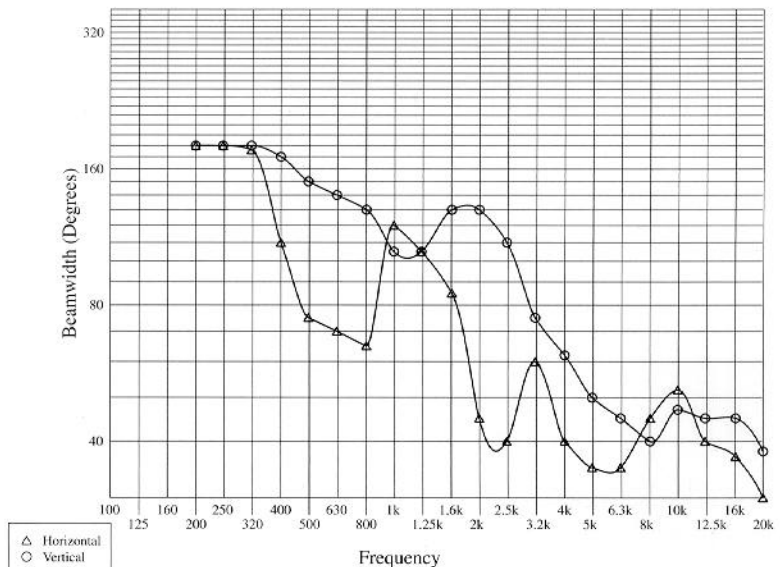
The frequency response of the Impulse™ 2652 is measured in an anechoic environment at a distance of one meter using a 2.8-volt swept sine input. The combination of the low frequency loudspeaker and the constant directivity horn results in a flat response, as shown in figure 1.

HARMONIC DISTORTION

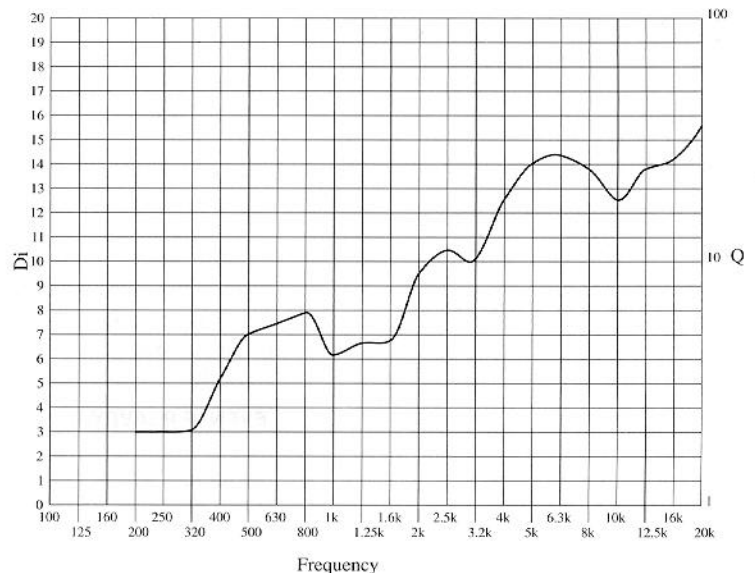
Second and third harmonic distortion versus frequency is plotted in figures 5 through 8 for two power levels: 1/10 of rated input power and either 1/100 of rated input power or 1 watt (whichever is greater). Distortion is read from the graph as the difference between the fundamental signal and the desired



Polar Beamwidth vs Frequency Plot



Directivity and Q plots




harmonic. As an example, distortion that is 40 dB down from the fundamental is equivalent to 1%.

POWER HANDLING

There are many different approaches to power handling ratings, the most common of which is EIA Standard RS-426A. The derived shape of this test spectrum was an attempt to simulate the spectral content of contemporary music. EIA-RS-426A does not contain the same levels of very low frequency material found in live music situations. Very high levels of low frequency material produce distortion and, ultimately, device failure. The presence of this low frequency material will therefore yield lower device ratings than produced by EIA Standard RS-426A. Although the Peavey ratings are lower than those produced by the EIA test spectrum, they are far more reliable and will have a direct correlation to real-world situations.

MOUNTING

The Impulse™ 2652 is supplied with four threaded inserts symmetrically placed on the gravity center of the enclosure. The cabinet is reinforced with 10-gauge steel brackets. The grille frame is permanently attached to the baffle to alleviate any possibility of separation of the grille from the baffle.

CAUTION: Before attempting to suspend this speaker, consult a  certified structural engineer. The speaker can fall from improper suspension, resulting in serious injury and property damage. All associated rigging is the responsibility of others. This speaker system can permanently damage hearing! Use extreme care setting maximum loudness. **Do not attempt to hang or mount any other product or device on this enclosure.**

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The loudspeaker system shall have an operating bandwidth of 100 Hz to 18 kHz. The output level shall be 94 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The continuous power handling shall be 150 watts, with maximum program power of 300 watts and minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90 degrees in the horizontal plane and 50 degrees in the vertical plane. The outside dimensions shall be 24 inches high by 10 inches wide-front (5-1/2 inches wide-rear) by 9-1/2 inches deep. The weight shall be 32 lbs. The loudspeaker system shall be a model Impulse™ 2652.

LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

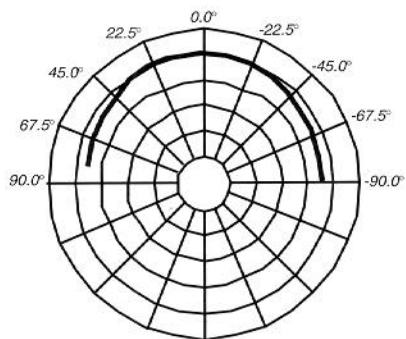
Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THIS LIMITED WARRANTY IS THE ONLY EXPRESSED WARRANTY ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY, OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

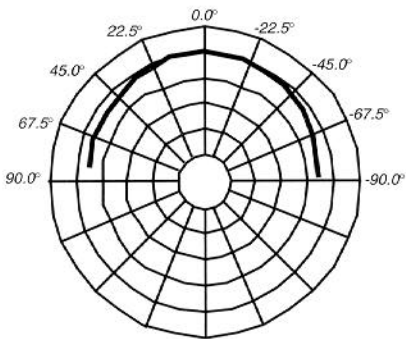
Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5365.

HORIZONTAL POLAR PATTERNS

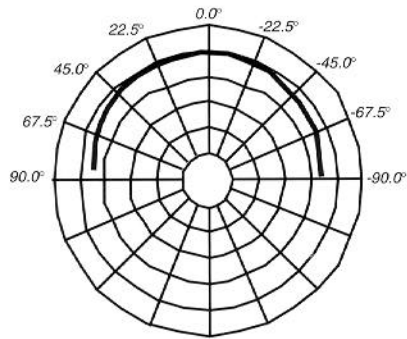
6 dB per division



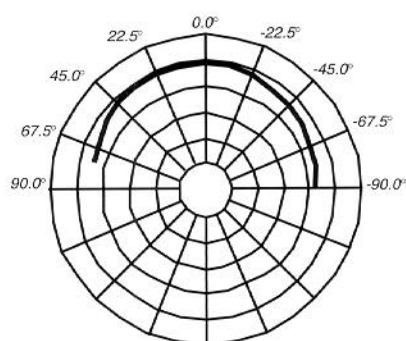
200 Hz



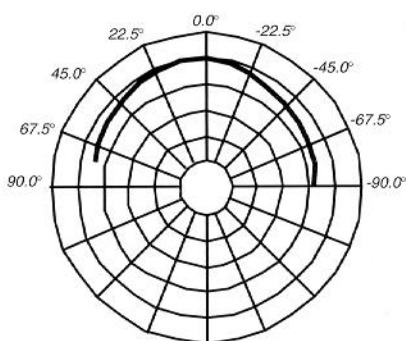
250 Hz



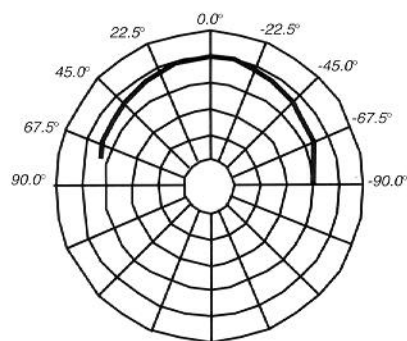
300 Hz



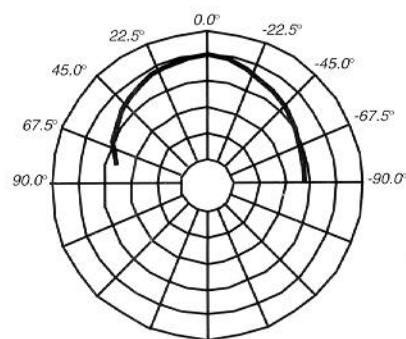
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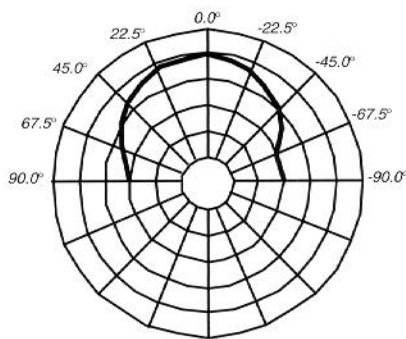
500 Hz



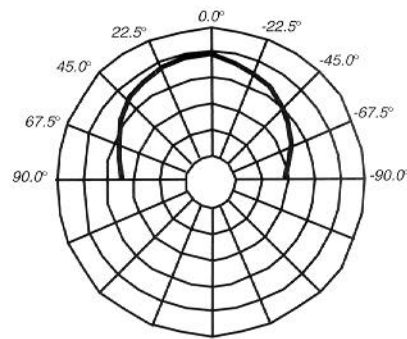
650 Hz



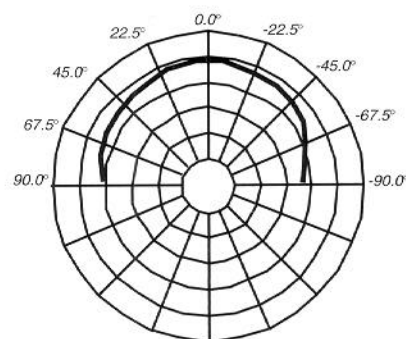
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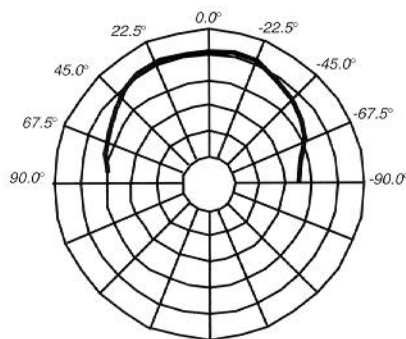
1 kHz



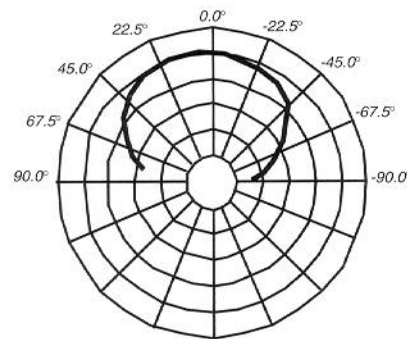
1.25 kHz



1.6 kHz



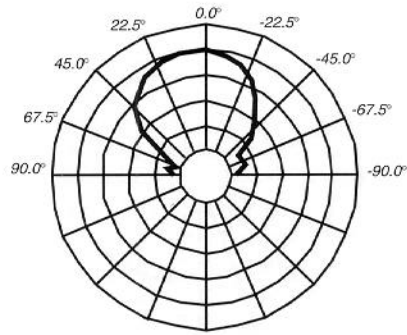
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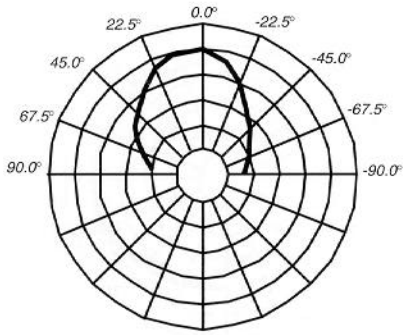
2.5 kHz

HORIZONTAL POLAR PATTERNS

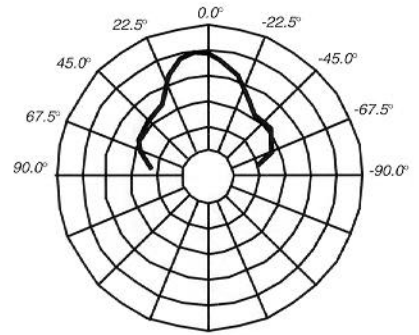
6 dB per division



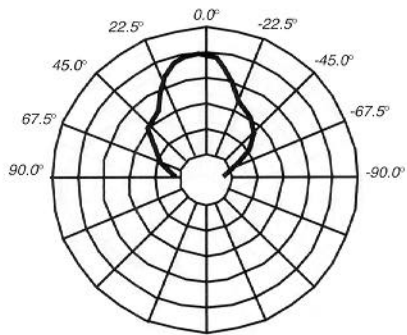
3.1 kHz



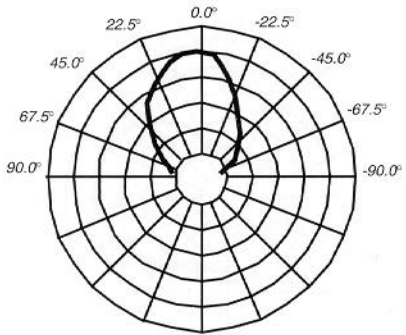
4 kHz



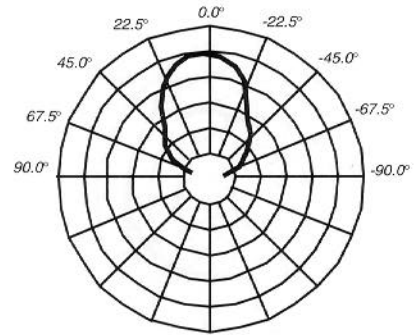
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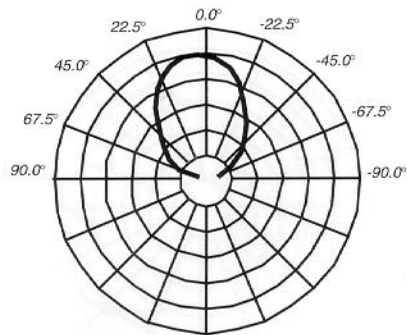
6.3 kHz



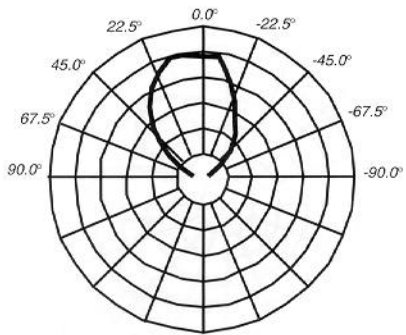
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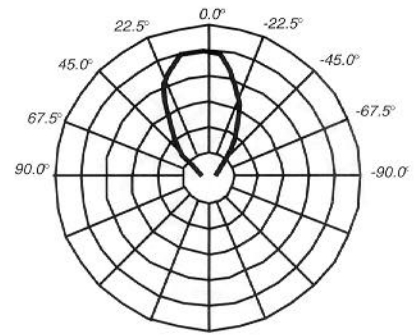
10 kHz



12.5 kHz



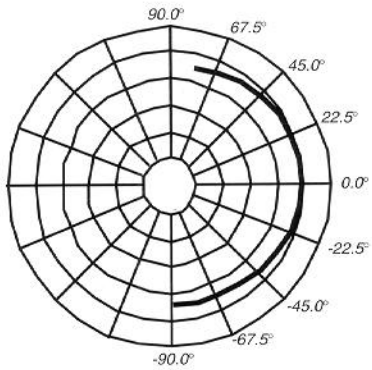
15.8 kHz



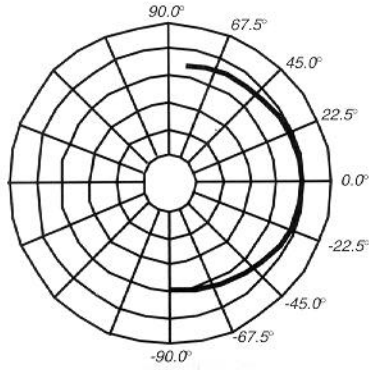
20 kHz

VERTICAL POLAR PATTERNS

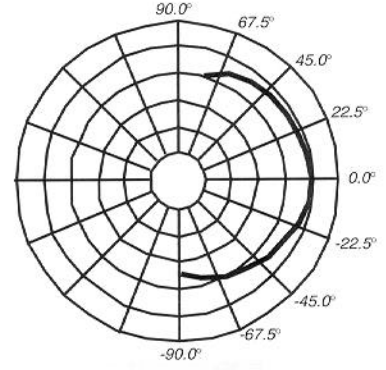
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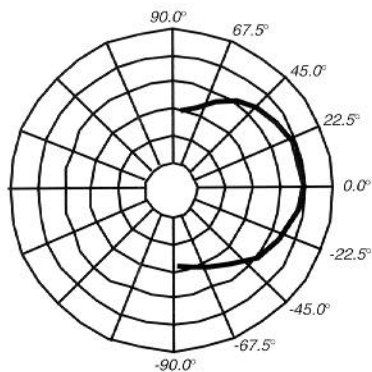
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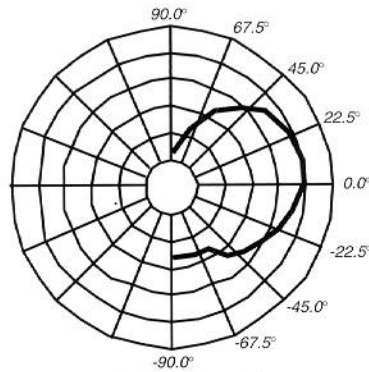
250 Hz



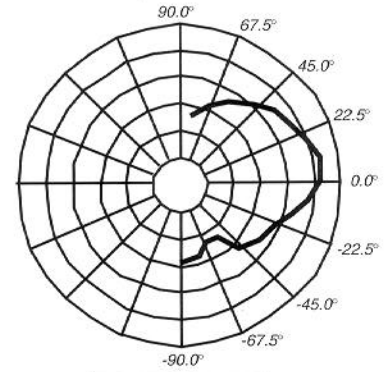
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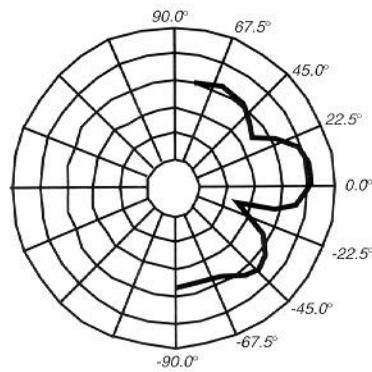
400 Hz



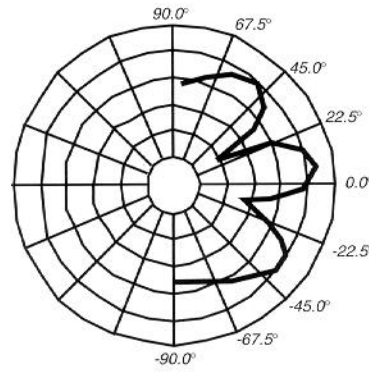
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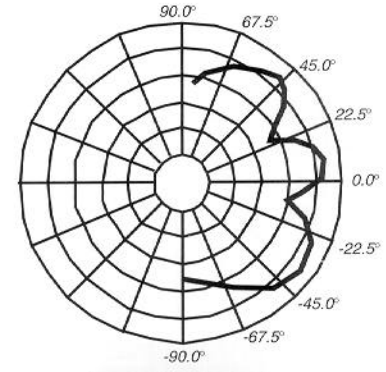
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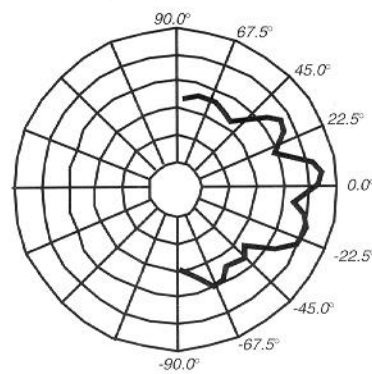
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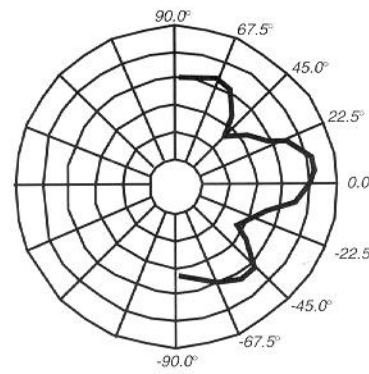
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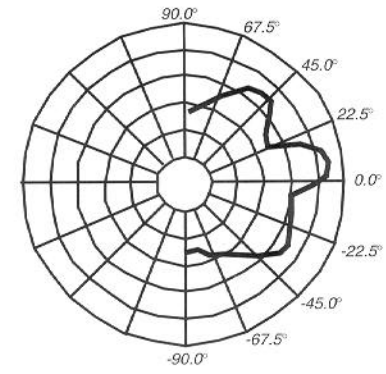
1.25 kHz



1.6 kHz



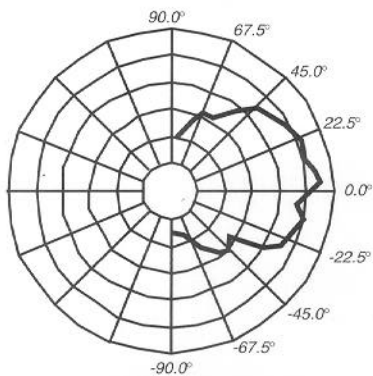
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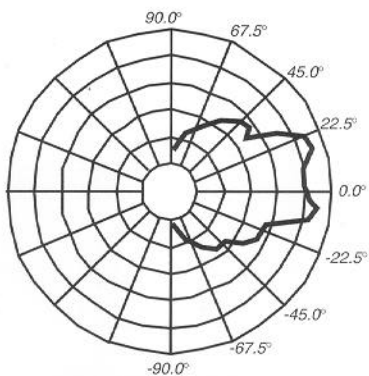
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VERTICAL POLAR PATTERNS

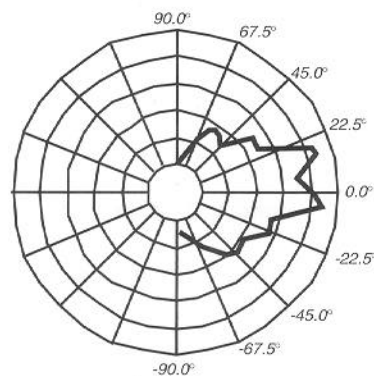
6 dB per division



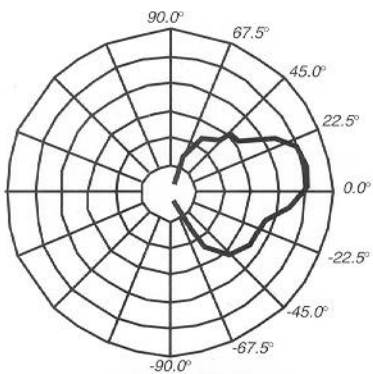
3.1 kHz



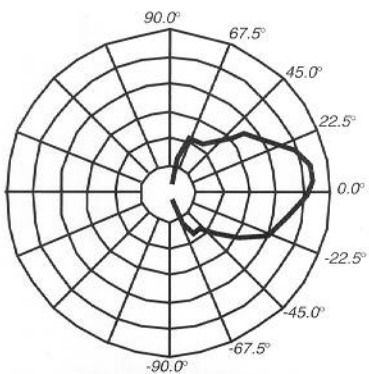
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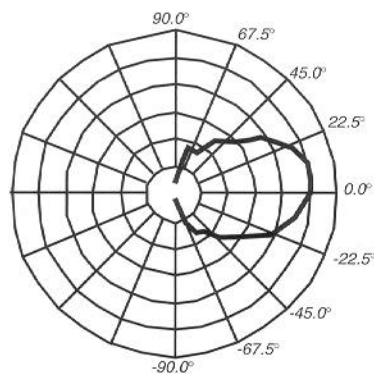
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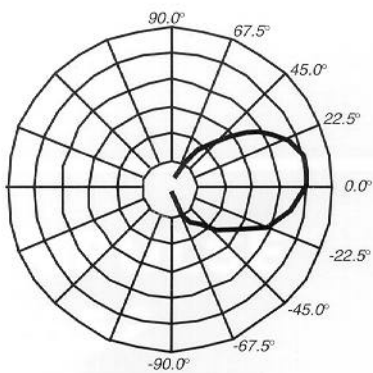
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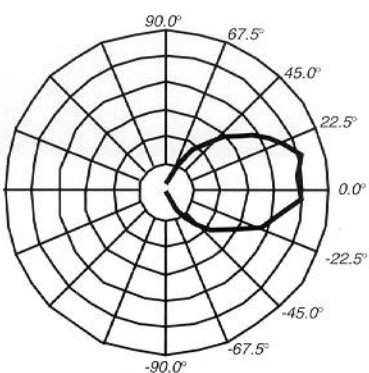
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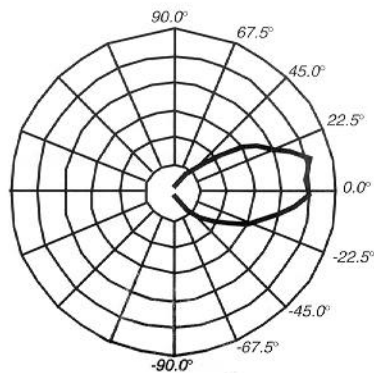
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12.6 kHz



15.8 kHz



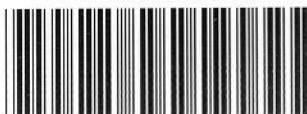
20 kHz



Features and specifications subject to change without notice.



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