



Description

The new SSE enclosure series features high power ratings with custom components, a sleek look and a unique, snap-in metal grille. The SSE 26 is a two-way system featuring the highly acclaimed Peavey 14XT titanium compression driver with a Sound Guard IV tweeter protection network and two maximum-performance 6.5" woofers. It is rated at 300 Watts program and 600 Watts peak. This lightweight speaker system is ideal for smaller venues where space is at a premium. Connections include a 4-pin twist-lock connector or a paralleled two-position terminal block for additional cabinets. The SSE Series is available in black, white and natural finishes.

Features

- Two-way sound reinforcement enclosure
- Designed for permanent installations
- Two premium 6.5" woofers
- Peavey 14XT™ titanium compression driver
- Sound Guard™ IV tweeter protection network
- Mounting point for VersaMount™ 35 bracket
- Available in three finishes: black, white or natural
- 300 Watts program/600 Watts peak power handling
- 100 Hz to 17 kHz
- 94 dB at 1W/1m
- 8 Ohms

Frequency response, 1 meter on-axis, swept-sine in anechoic environment:
100 Hz to 17 kHz (±3 dB)

Usable low frequency limit (-10 dB point):
80 Hz to 21 kHz

Power handling:
Full Range:
300 W program
600 W peak

Sound pressure level, 1 Watt, 1 meter in anechoic environment:
Full Range:
94.0 dB SPL (2.83 V input)

Maximum sound pressure level (1 meter):
Full Range:
115.8 dB SPL continuous
121.8 dB SPL peak



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Radiation angle measured at -6 dB point of polar response:

500 Hz to 1.6 kHz:
Horiz. 135° +/- 50°
Vert. 75° +/- 35°
1.6 kHz to 5 kHz:
Horiz. 110° +/- 70°
Vert. 125° +/- 90°
5 kHz to 16 kHz:
Horiz. 80° +/- 20°
Vert. 80° +/- 20°

Directivity factor, Q (Mean):

7.70 +/- 4.99

Directivity index, Di (Mean):

7.69 dB +/- 3.49 dB

Transducer complement:

Low Frequency Section:
Two 6.5" premium Peavey woofers+

High frequency section:

Peavey 14XT™ titanium compression driver
on a 90° x 90° conical Horn

Box tuning frequency:

Low Frequency Section: 100 Hz

Harmonic distortion:

1% rated power
Second Harmonic:
100 Hz: 0.09%
1 kHz: 0.09%
Third Harmonic:
100 Hz: 1.19%
1 kHz: 0.14%
10% rated power
Second Harmonic:
100 Hz: 0.34%
1 kHz: 0.37%
Third Harmonic:
100 Hz: 1.67%
1 kHz: 0.22%

Crossover frequency (internal passive):

Low Frequency - High Frequency:
1.8 kHz

Impedance (Z):

Full Range:
Nominal: 8.0 Ω
Minimum: 9.1 Ω

Input connections:

One 4-pin twist-lock connector in parallel
with one two-position terminal strip

Enclosure materials & finish:

Trapezoidal, dado-joined 13 mm birch
finished with a textured acrylic
polyurethane, with a full-length metal grille
covered with acoustical-grade grille cloth.
Available in black, white or natural finishes.

Mounting provisions:

(1) Mounting bracket and associated
hardware for attaching to SSE 26. This
bracket will allow for horizontal mounting to
walls and ceilings.

Bolts are M6 x 1.0mm x 30mm length
(4) 1/4"-20 threaded mounting points on
back to accommodate use of VersaMount™
35 adjustable mounting bracket

Dimensions (H x W x D):

Front:
23.25" x 9.93" x 9.47"
591 mm x 252 mm x 240 mm
Rear:
23.25" x 5.23" x 9.47"
591 mm x 133 mm x 240 mm

Net weight:

28 lbs. (12.7 kg)

Frequency response

This measurement is useful in determining
how accurately a given unit reproduces an
input signal. The frequency response of the
SSE 26 is measured at a distance of 1 meter
using a 1 Watt (into the nominal impedance)
swept-sine input signal. As shown in figure
1, the selected drivers in the SSE 26
combine to give a smooth frequency
response from 100 Hz to 17 kHz.

Directivity

Beamwidth is derived from the -6 dB points
from the polar plots (see figure 3), which are
measured in a whole-space anechoic
environment. Q and Directivity Index are
plotted for the on-axis measurement
position. These are specifications provide a
reference to the coverage characteristics of
the unit and provide insight into proper
placement and installation in the chosen
environment. The blending of the
components of the SSE 26 exhibit a
desirable beamwidth and directivity (figures
3 & 4) suitable for sound reinforcement
applications.

Power handling

There are many different approaches to
power handling ratings. Peavey rates this
loudspeaker system's power handling using
a full-range form of the AES Standard
2-1984. Using audio band 20 Hz to 20 kHz
pink noise with peaks of four times the RMS
level, this strenuous test signal assures the
user that every portion of this system can
withstand today's high technology music.
This rating is contingent upon having a
minimum of 3 dB available amplifier
headroom.

Harmonic distortion

Second and third harmonic distortions vs.
frequency are plotted in figures 5 & 6 for two
power levels. Ten percent (10%) of rated
input power and either one percent (1%) of
rated input power or 1 Watt, whichever is
greater. Distortion is read from the graph as
the difference between the fundamental
signal (frequency response) and the desired
harmonic. As an example, a distortion curve
that is down 40 dB from the fundamental is
equivalent to 1% distortion.

Mounting

Caution: Before attempting to mount this
speaker, consult a certified structural
engineer. The speaker may fall due to
improper installation, resulting in serious
injury and property damage. DO NOT
suspend or mount any other product or
device from this SSE 26 enclosure. The
maximum enclosure angle 45°. Use only
Grade 5 hardware or better. All associated
rigging is the responsibility of others.

Architectural & engineering specifications

The loudspeaker system shall have an
operating bandwidth of 100 Hz to 17 kHz.
The nominal output level shall be 94.0 dB
when measured at a distance of a meter with
an input of 1 Watt. The nominal impedance
shall be 8.0 ohms. The maximum program
power handling shall be 300 Watts, with a
peak power input of at least 600 Watts and a
minimum amplifier headroom of 3 dB. The
nominal radiation geometry shall be 115
degrees in the horizontal plane and 110
degrees in the vertical plane. The outside
dimensions shall be 23.25 inches high by
9.93 inches wide by 9.47 inches deep. The
weight shall be 28 lbs. The loudspeaker
system shall be a model SSE 26.

Amplitude Response (1W 1m On-Axis)

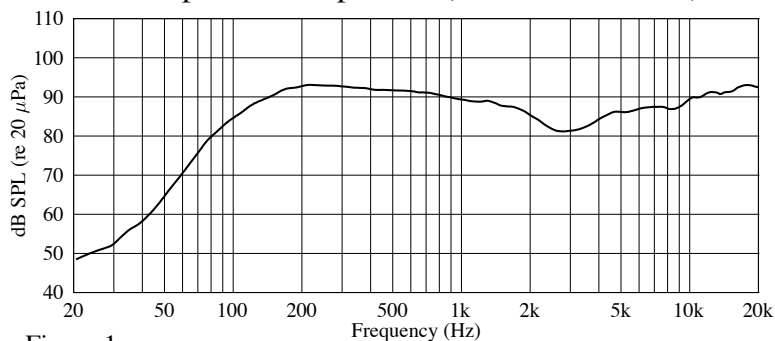


Figure 1

Impedance

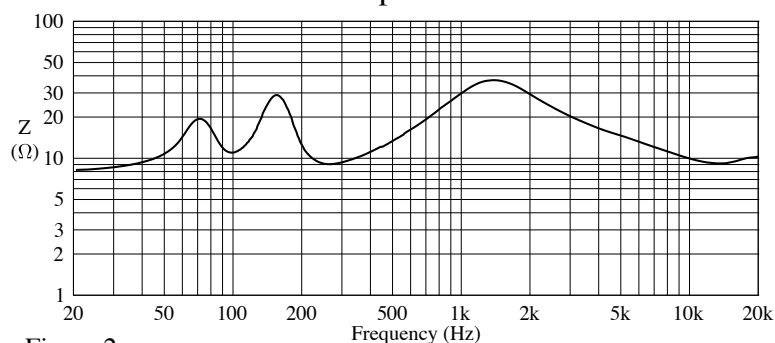


Figure 2

Beamwidth

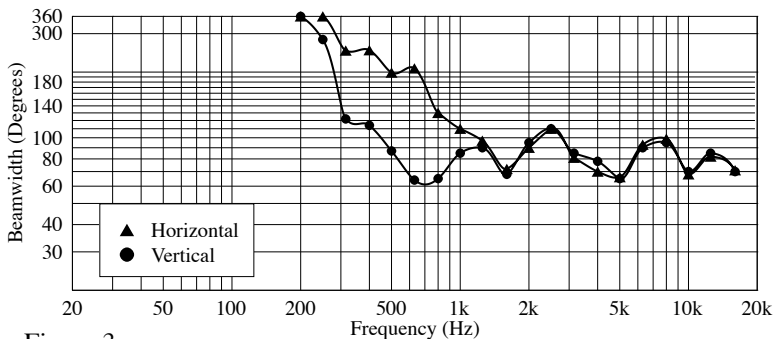


Figure 3

Q & Directivity Index

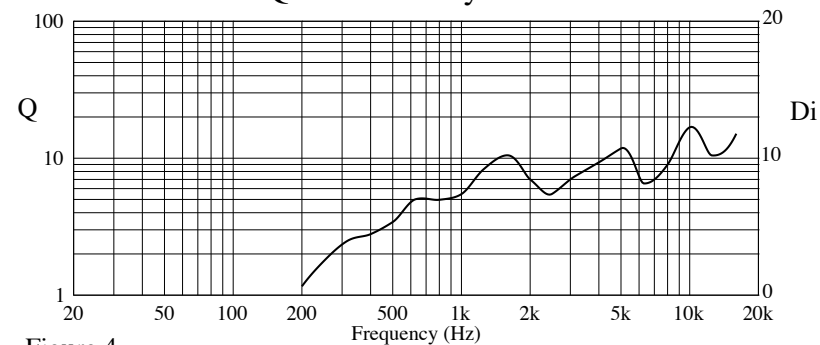


Figure 4

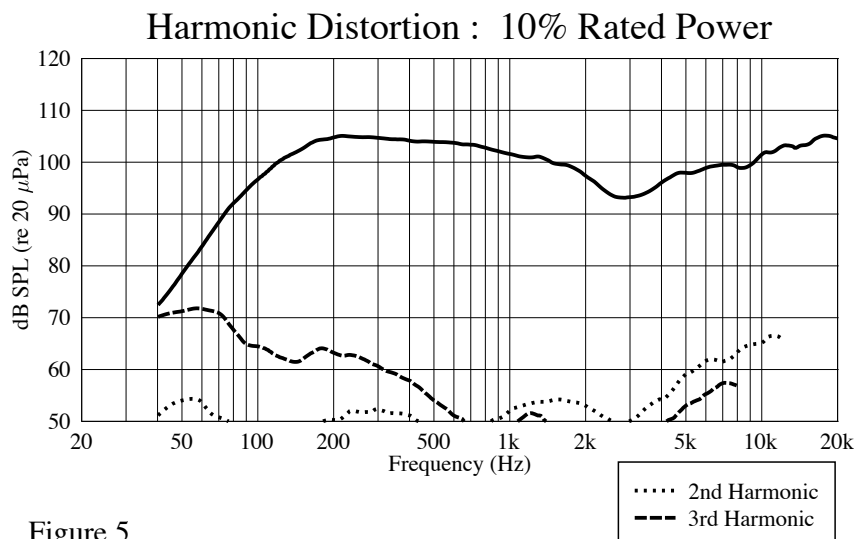


Figure 5

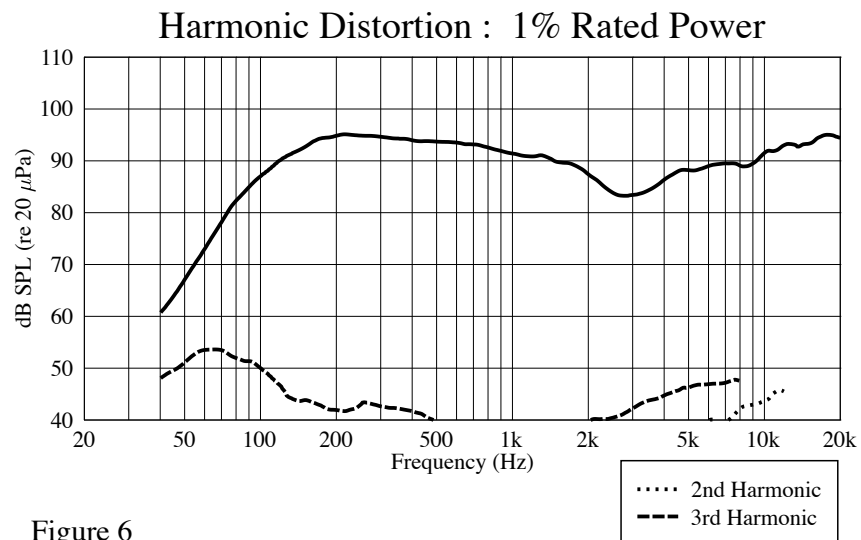
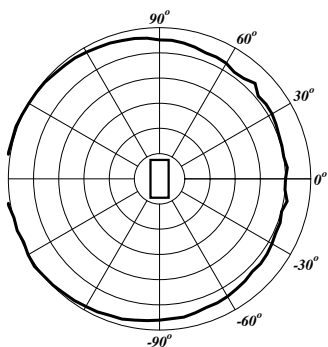
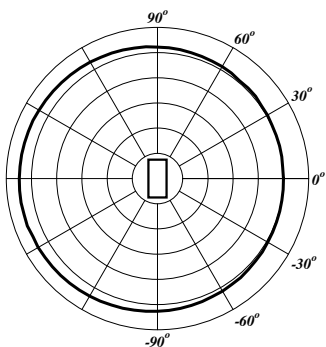


Figure 6

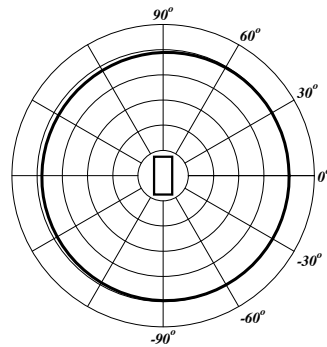
Vertical Polar Patterns 6 dB per Division



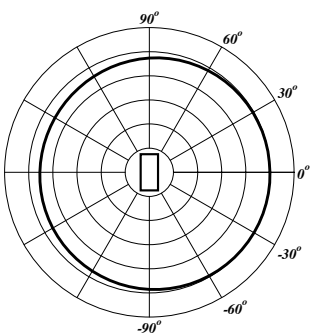
50 Hz



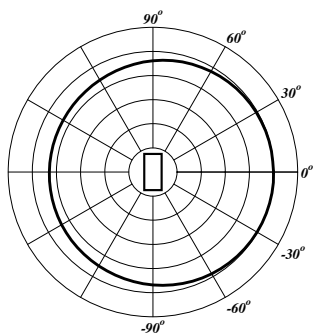
63 Hz



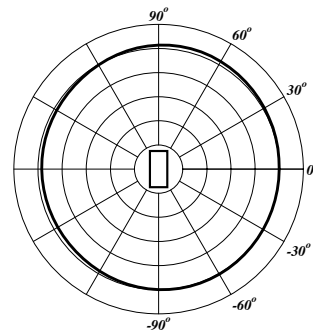
80 Hz



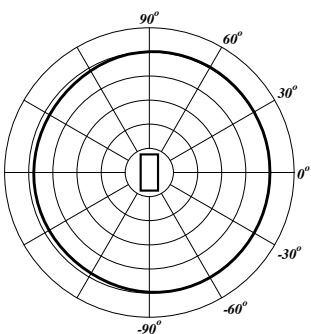
100 Hz



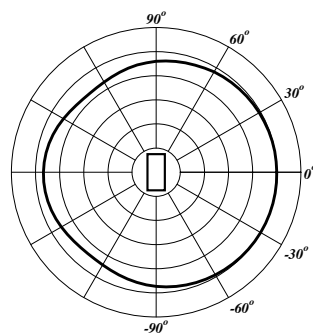
125 Hz



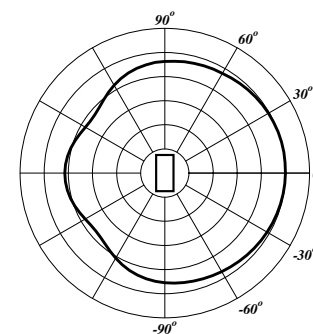
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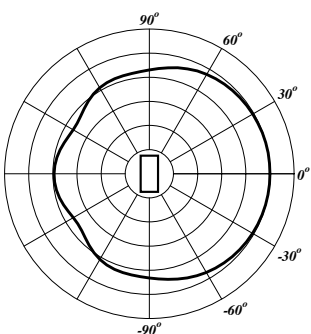
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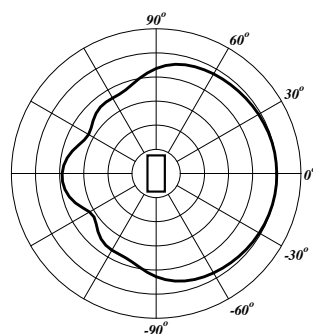
250 Hz



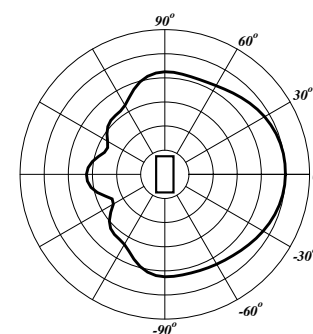
315 Hz



400 Hz



500 Hz

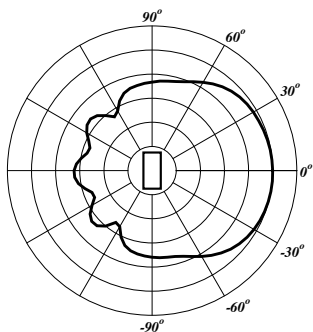


630 Hz

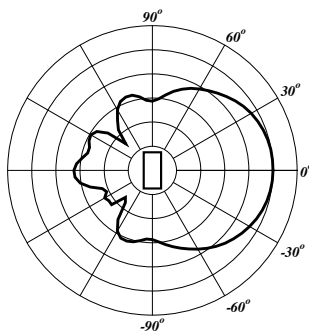


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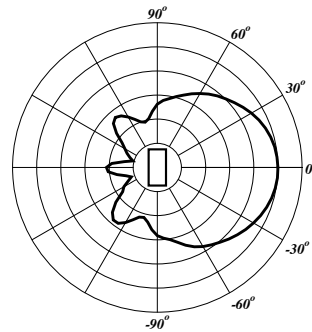
Vertical Polar Patterns 6 dB per Division



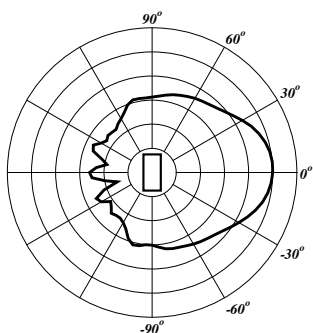
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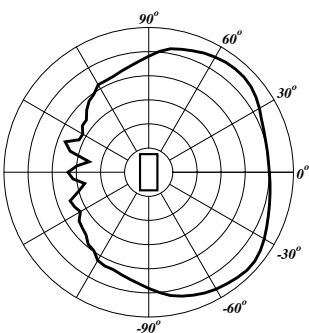
1 kHz



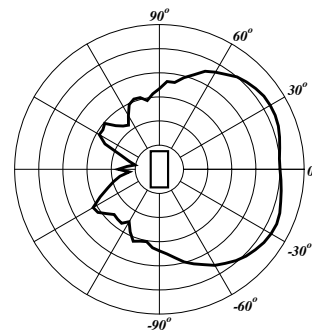
1.25 kHz



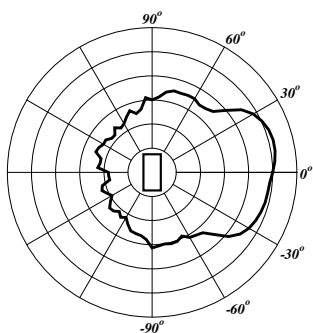
1.6 kHz



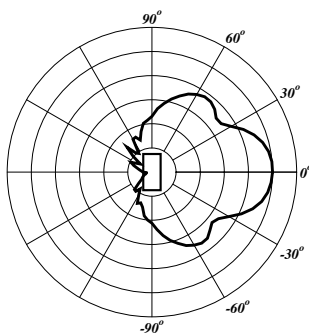
2 kHz



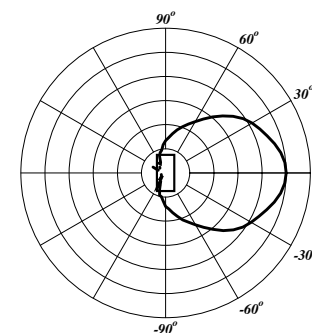
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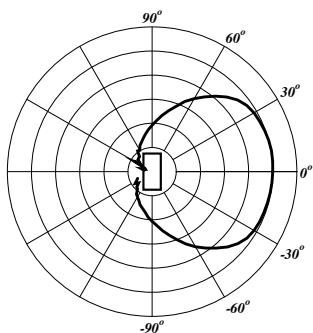
3.15 kHz



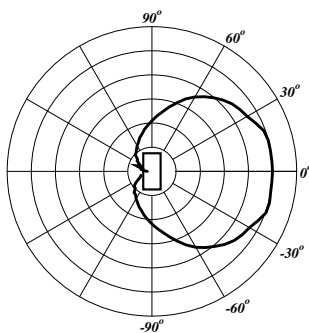
4 kHz



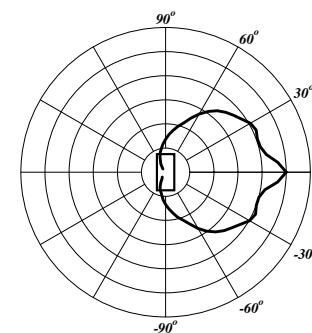
5 kHz



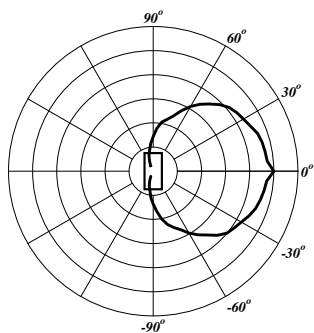
6.3 kHz



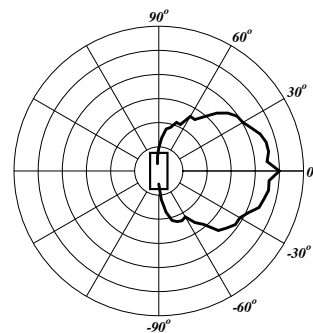
8 kHz



10 kHz

Vertical Polar Patterns 6 dB per Division

12.5 kHz

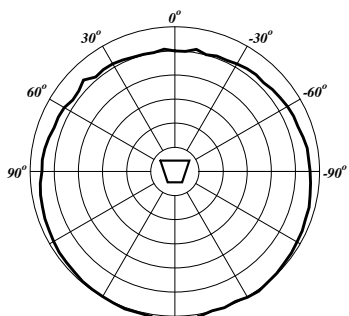


16 kHz

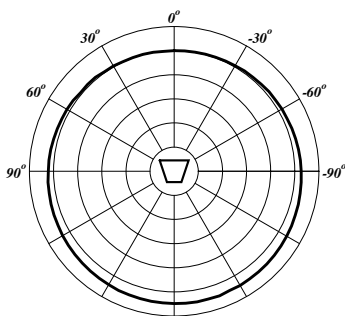


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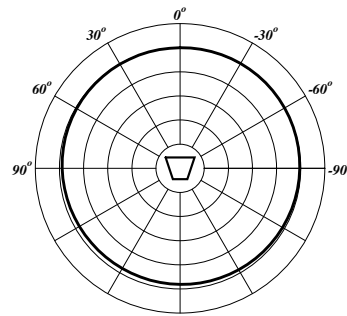
Horizontal Polar Patterns 6 dB per Division



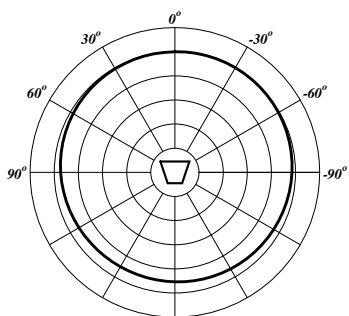
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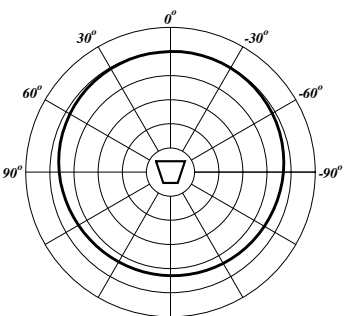
63 Hz



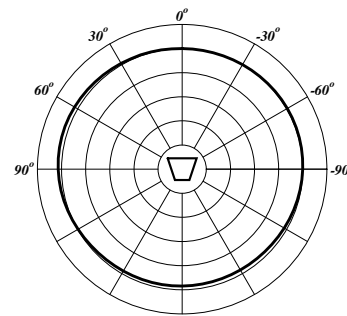
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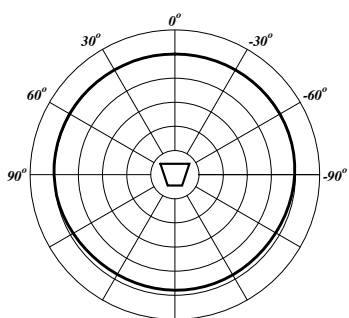
100 Hz



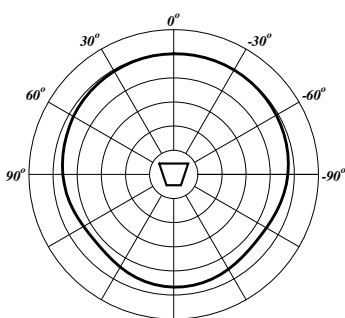
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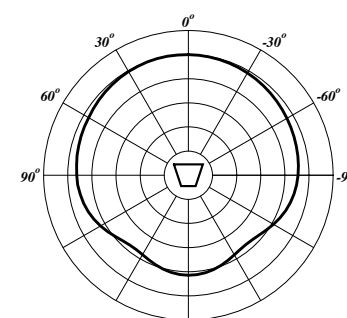
160 Hz



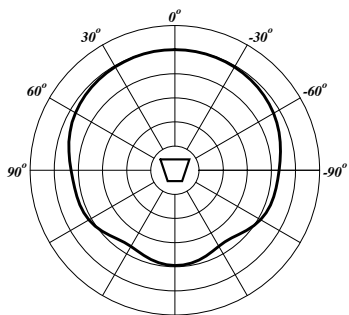
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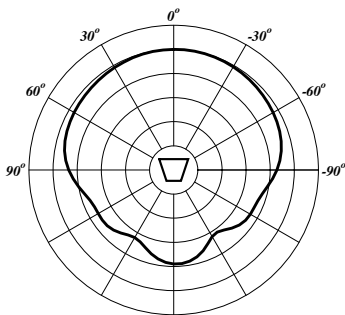
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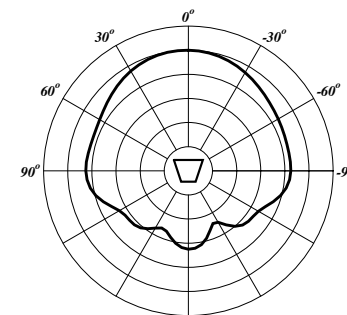
315 Hz



400 Hz

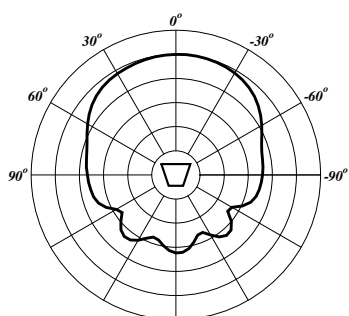


500 Hz

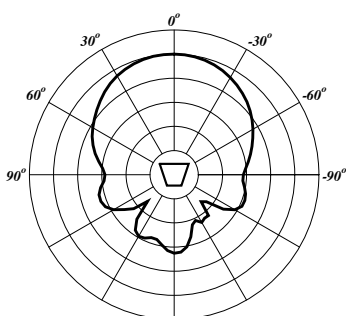


630 Hz

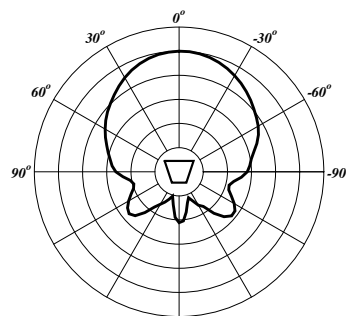
Horizontal Polar Patterns 6 dB per Division



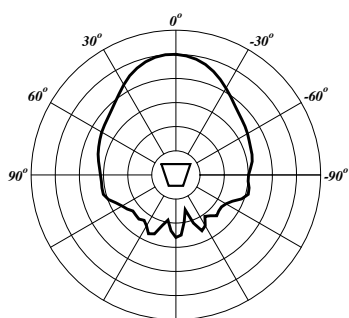
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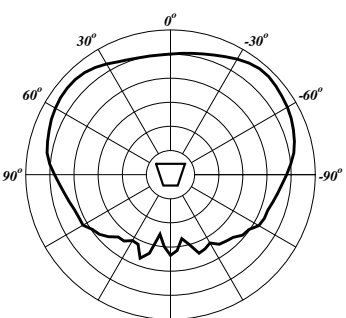
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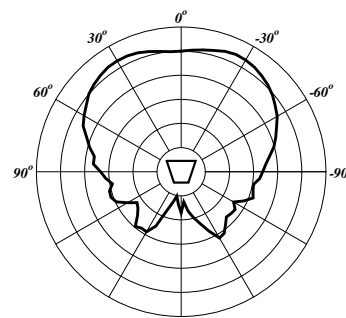
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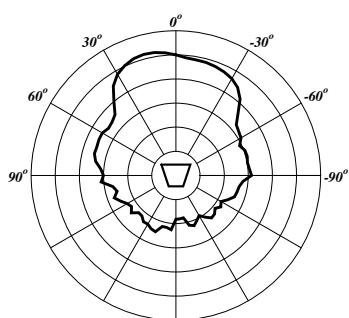
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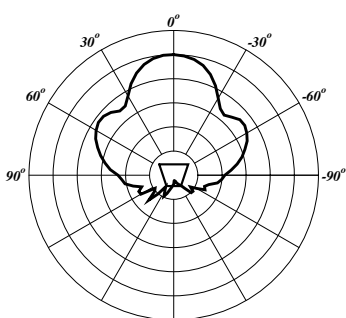
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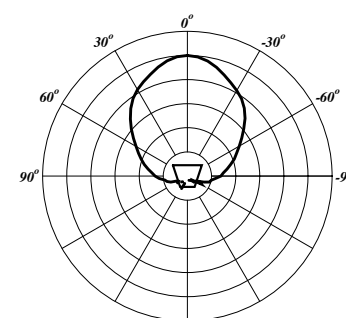
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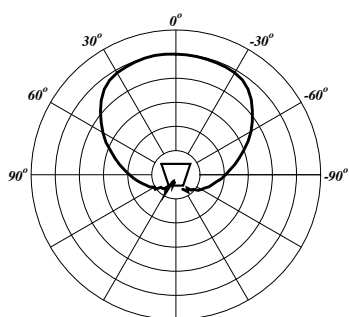
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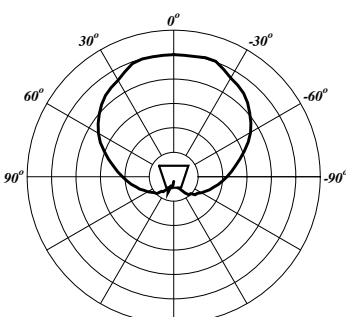
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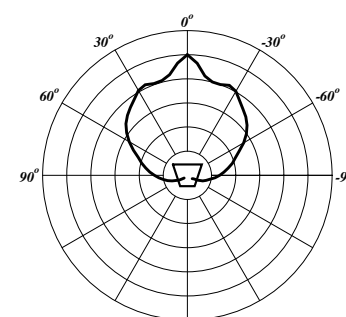
5 kHz



6.3 kHz



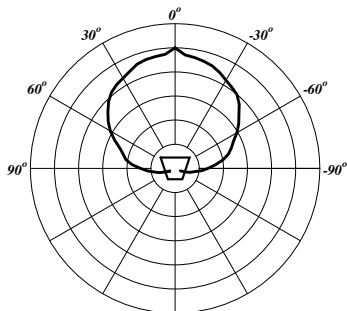
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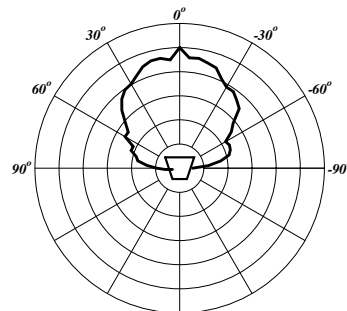
10 kHz



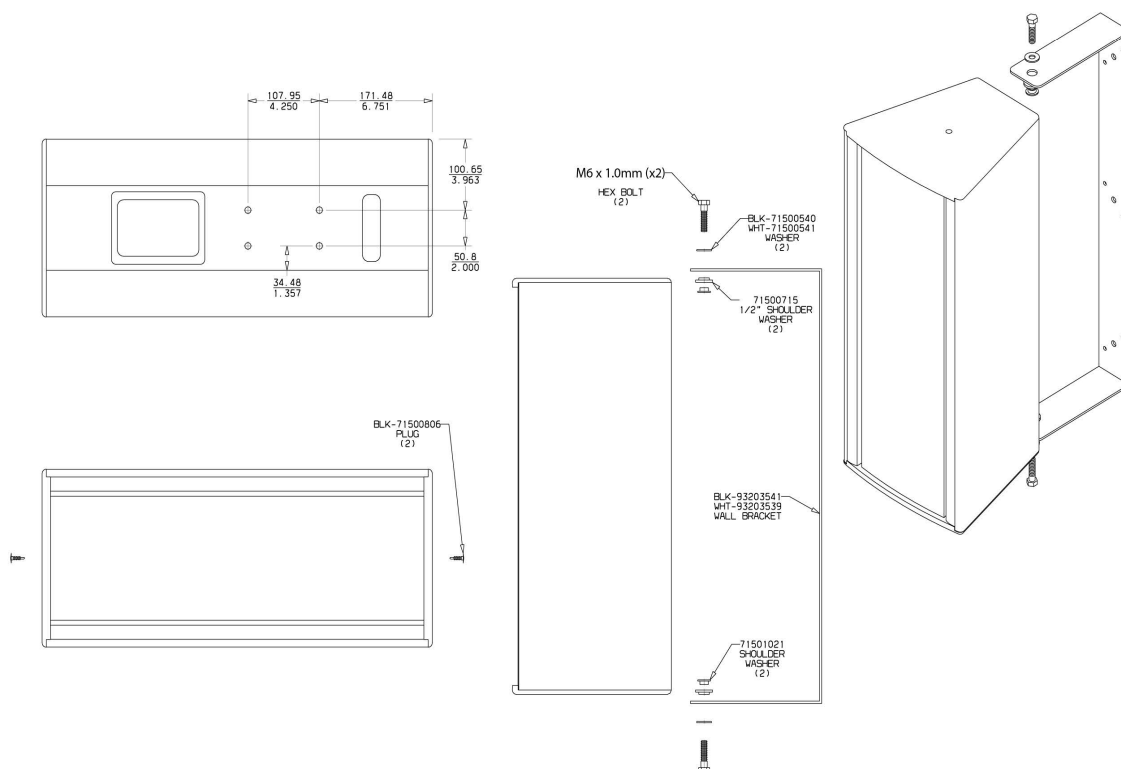
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12.5 kHz



16 kHz



Input Plate



Flying/Rigging Information

Caution: Before attempting to suspend this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Do not suspend or mount any other product or device from this enclosure! Maximum enclosure angle 30°. Use only the correct mating hardware. All associated rigging is the responsibility of others. DO NOT OVER TORQUE HARDWARE. ALWAYS USE SAFETY CHAIN. INSPECT RIGGING ANNUALLY.

Hardware for Flying/Rigging

Bracket bolts should be metric thread grade 8.8 or better. Eyebolts and bracket bolts must conform to certain minimum strength criteria for safety reasons. Unspecified eyebolts found at local hardware stores are not strong enough to maintain safety for overhead flying or rigging. Use only forged steel shoulder machinery eyebolts designed for rigging use. Eyebolts should comply to one of the following standards: DIN 580, ASTM A489, or the German BGV-C1 specification. This Peavey loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in this User's Manual and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state and federal suspension ordinances.



www.peavey.com

Warranty registration and information for U.S. customers available online at
www.peavey.com/warranty
or use the QR tag below



Features and specifications subject to change without notice.

Peavey Electronics Corporation 5022 Hartley Peavey Drive Meridian, MS 39305 (601) 483-5365 FAX (601) 486-1278



Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/36, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005