



#### 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 6 is a two-way system featuring the highly acclaimed Peavey 14T titanium compression driver with a Sound Guard IV tweeter protection network and a maximum-performance 6.5" woofer. It is rated at 150 Watts program and 300 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 or white finishes.

#### Features:

- Two-way sound reinforcement enclosure
- Designed for permanent installation
- Premium 6.5" woofer
- Peavey 14T™ titanium compression driver
- Sound Guard™ IV tweeter protection network
- Available in black or white finishes
- Mounting point for VersaMount™ 35 bracket
- 150 Watts program/300 Watts peak power handling
- 100 Hz to 17 kHz
- 90 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:  
150 W program  
300 W peak

Sound pressure level, 1 Watt, 1 meter in anechoic environment:

Full Range:  
90.0 dB SPL (2.83 V input)

Maximum sound pressure level (1 meter):

Full Range:  
108.8 dB SPL continuous  
114.8 dB SPL peak





## SANCTUARY SERIES™

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

500 Hz to 1.6 kHz:

Horiz. 145° +/- 55°

Vert. 165° +/- 100°

1.6 kHz to 5 kHz:

Horiz. 115° +/- 65°

Vert. 110° +/- 70°

5 kHz to 16 kHz:

Horiz. 95° +/- 15°

Vert. 95° +/- 15°

### Directivity factor, Q (Mean):

5.93 +/- 3.06

### Directivity index, Di (Mean):

7.03 dB +/- 2.65 dB

### Transducer complement:

Low Frequency Section:

one 6.5" premium Peavey woofer

High Frequency Section:

Peavey 14T™ titanium diaphragm compression driver on a 90° H x 90° V conical horn

### Box tuning frequency:

Low Frequency Section:

100 Hz

### Harmonic distortion:

1% rated power

Second Harmonic:

100 Hz: 0.54%

1 kHz: 0.25%

Third Harmonic:

100 Hz: 1.97%

1 kHz: 0.46%

10% rated power

Second Harmonic:

100 Hz: 0.98%

1 kHz: 0.66%

Third Harmonic:

100 Hz: 2.45%

1 kHz: 0.66%

### Crossover frequency (internal passive):

Low Frequency - High Frequency:

2.4 kHz

### Impedance (Z):

Full Range:

Nominal: 8.0 Ω

Minimum: 8.5 Ω

### Input connection:

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 or white finishes.

### Mounting provisions:

(1) Mounting bracket and associated hardware for attaching to SSE 6. This bracket will allow for horizontal mounting to walls and ceilings. Bolts are M6 x 1.0mm x 30mm length.

(4) M6 threaded mounting points on back to accommodate use of Versamount™ 35 adjustable mounting bracket.

### Dimensions (H x W x D):

Front:

16.41" x 9.95" x 9.47"

417 mm x 253 mm x 240 mm

Rear:

16.41" x 5.23" x 9.47"

417 mm x 133 mm x 240 mm

### Net weight:

21 lbs. (9.5 kg)

### Frequency response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SSE 6 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 6 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 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 6 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 6 enclosure. The maximum enclosure angle 45°. Use only Grade 8.8 Metric hardware or better. All rigging is the responsibility of others.

DO NOT OVER TORQUE HARDWARE. ALWAYS USE SAFETY CHAIN. INSPECT RIGGING ANNUALLY.

### Architectural & engineering specifications

The loudspeaker system shall have an operating bandwidth of 100 Hz to 17 kHz. The nominal output level shall be 90.0 dB when measured at a distance of 1 meter with an input of 1 Watt. The nominal impedance shall be 8.0 ohms. The maximum continuous power handling shall be 75 Watts, with maximum program power of 150 Watts, a peak power input of at least 300 Watts and a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 120 degrees in the horizontal plane and 130 degrees in the vertical plane. The outside dimensions shall be 16.41" high by 9.95" wide by 9.47" deep. The weight shall be 21 lbs. The loudspeaker system shall be a model SSE 6.

NOTE: Features and specifications subject to change without notice.

WARRANTY INFORMATION AVAILABLE ONLINE

Amplitude Response (1W 1m On-Axis)

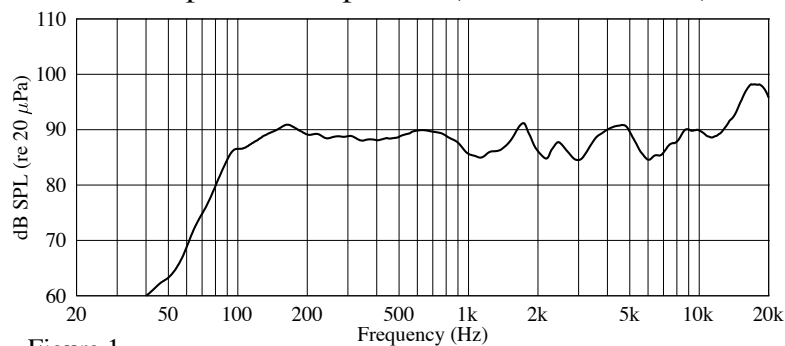


Figure 1

Impedance

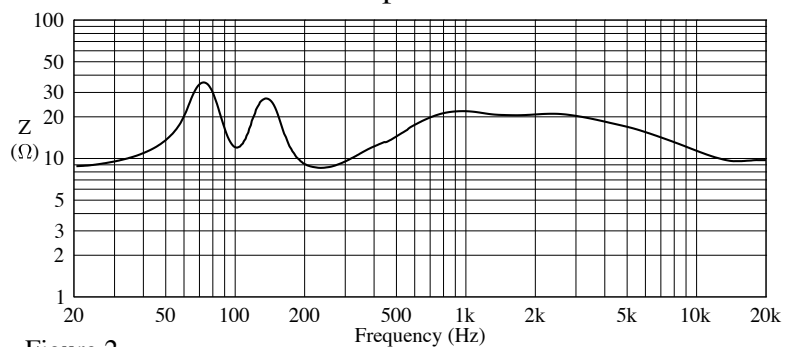


Figure 2

Beamwidth

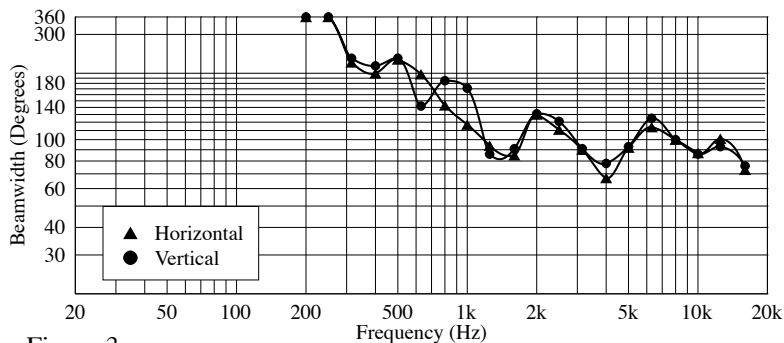


Figure 3

Q &amp; Directivity Index

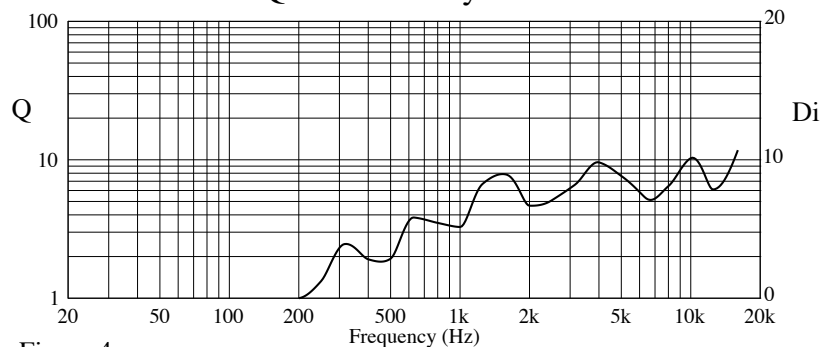


Figure 4

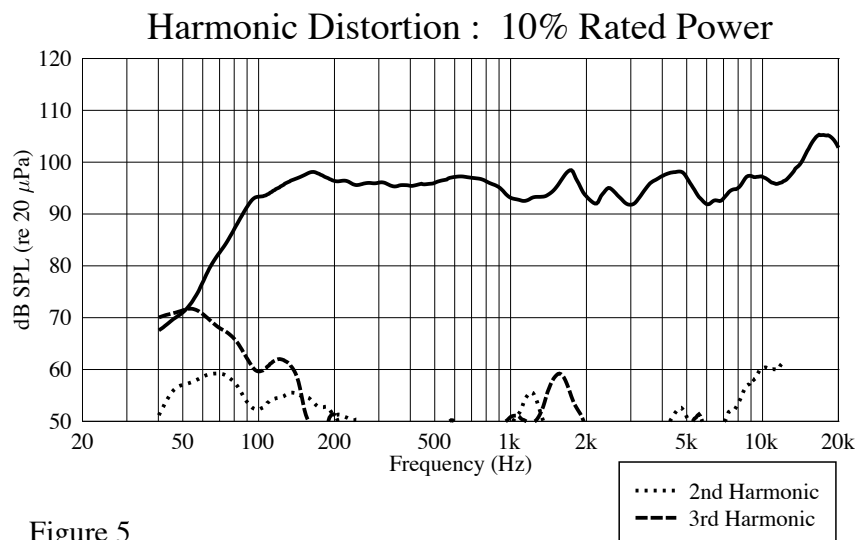


Figure 5

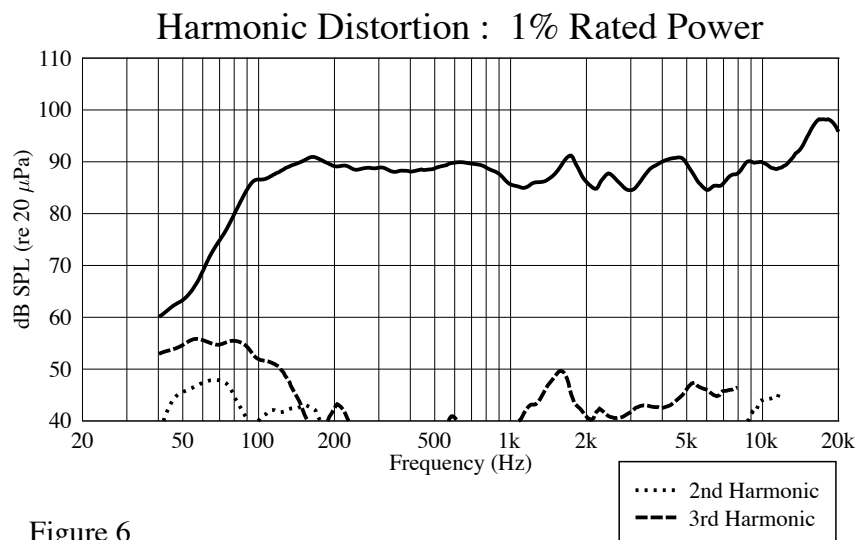
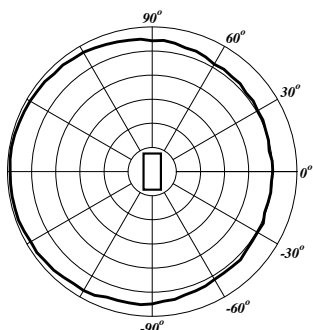
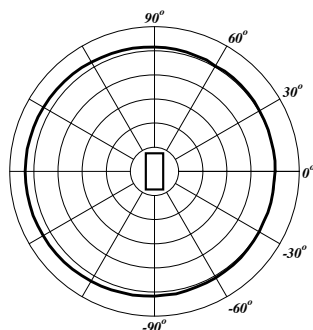


Figure 6

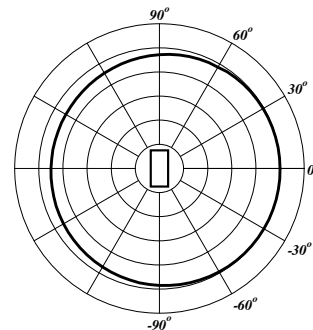
## Vertical Polar Patterns 6 dB per Division



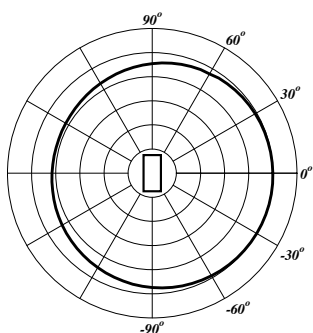
50 Hz



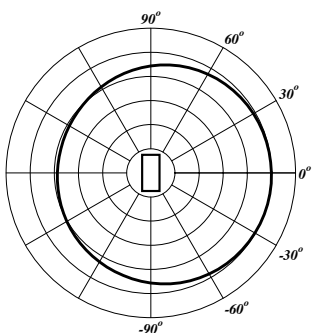
63 Hz



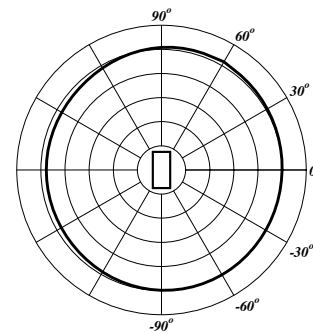
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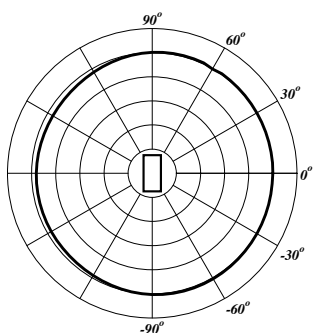
100 Hz



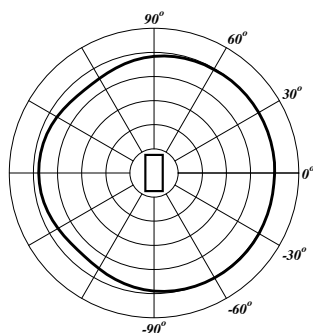
125 Hz



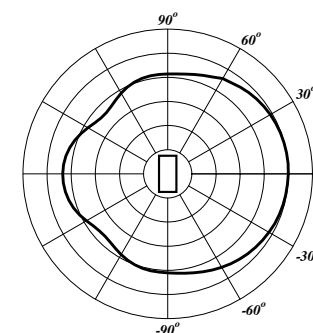
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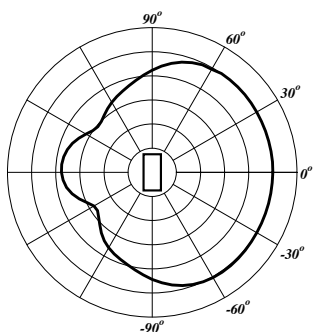
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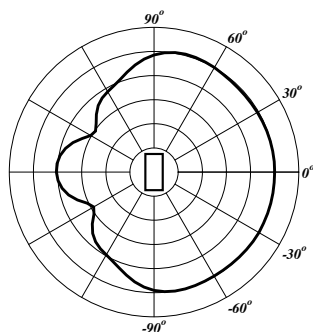
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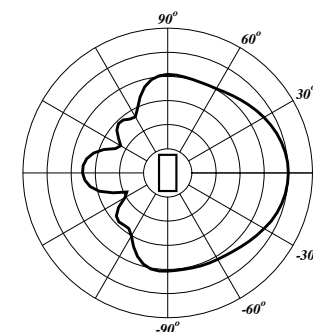
315 Hz



400 Hz



500 Hz

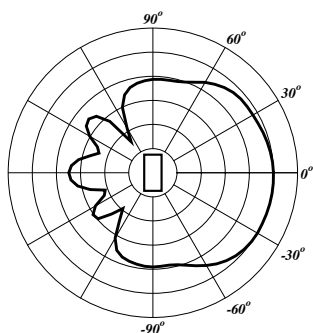


630 Hz

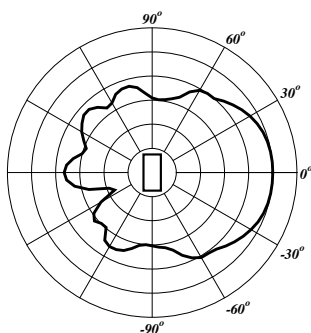


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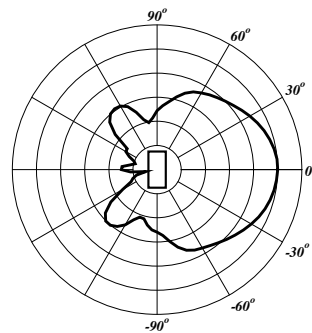
**Vertical Polar Patterns 6 dB per Division**



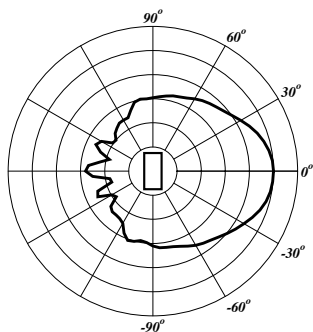
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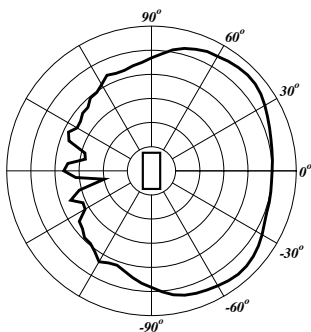
1 kHz



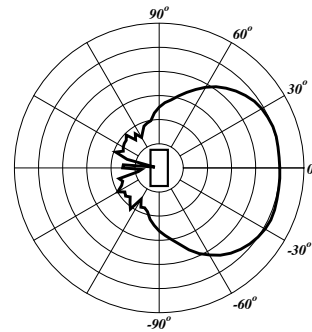
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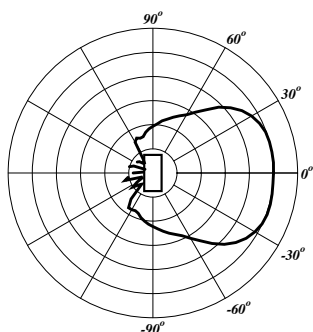
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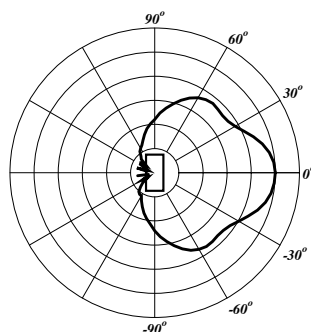
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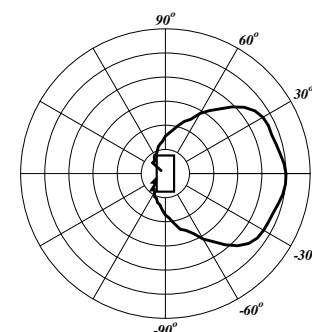
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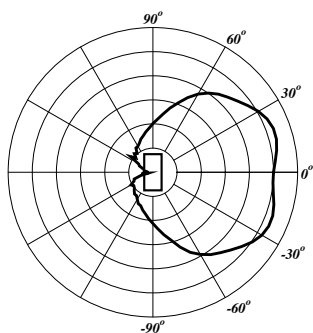
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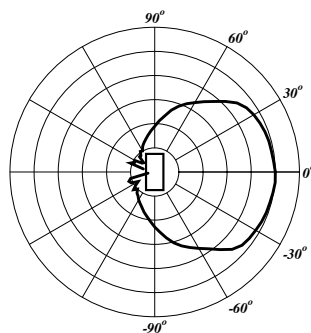
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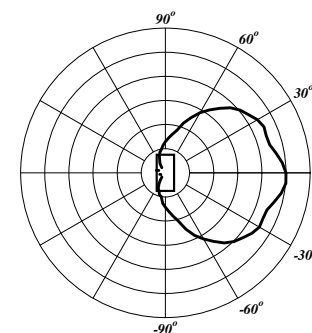
5 kHz



6.3 kHz

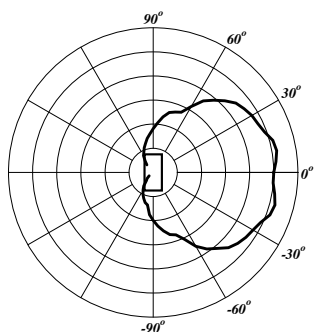


8 kHz

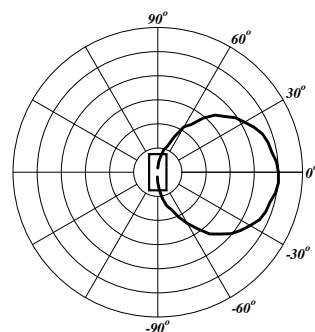


10 kHz

Vertical Polar Patterns 6 dB per Division



12.5 kHz

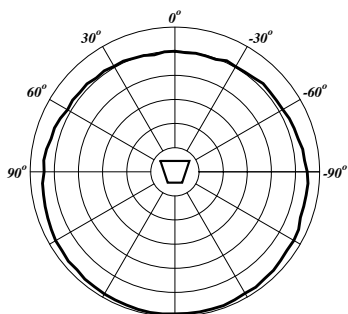


16 kHz

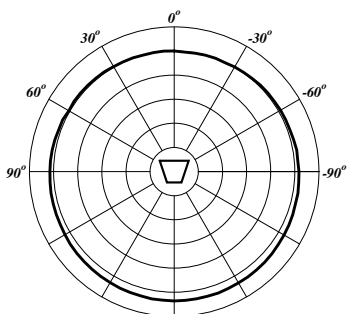


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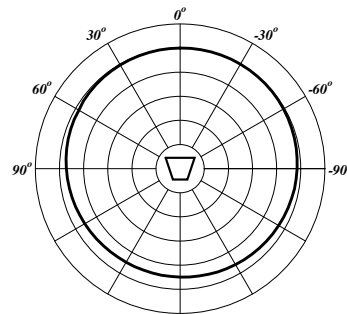
### Horizontal Polar Patterns 6 dB per Division



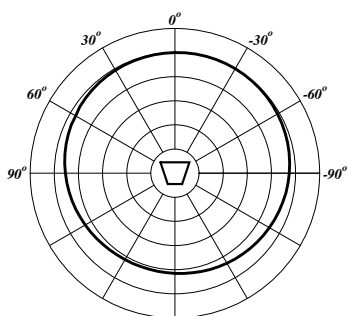
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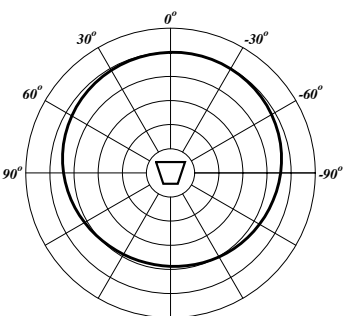
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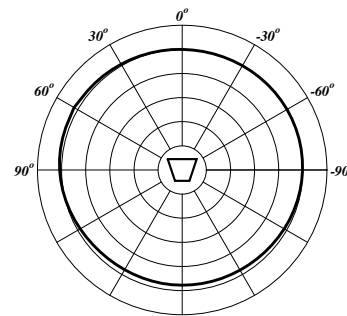
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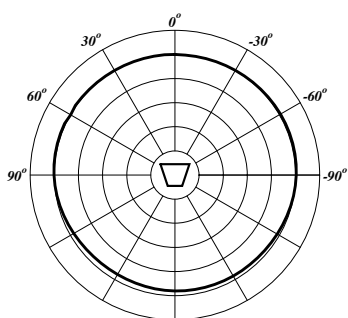
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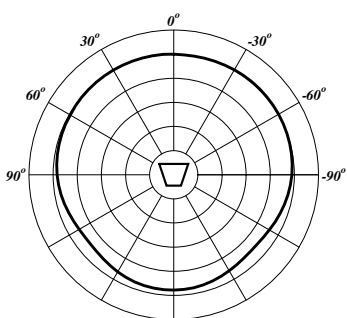
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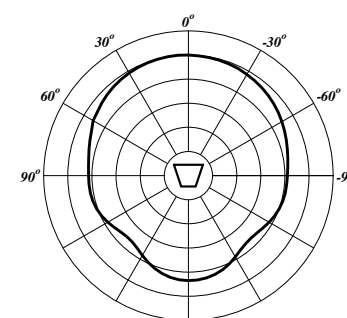
160 Hz



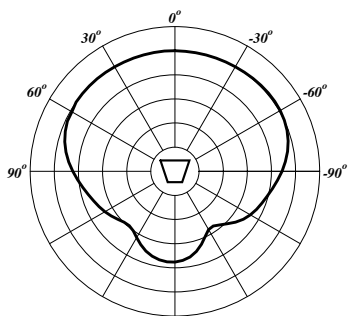
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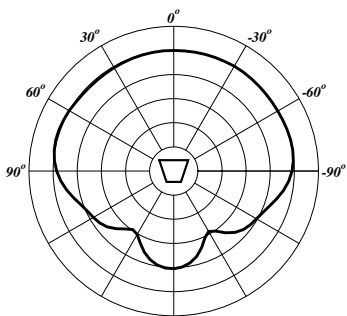
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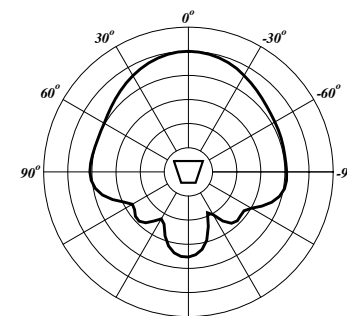
315 Hz



400 Hz

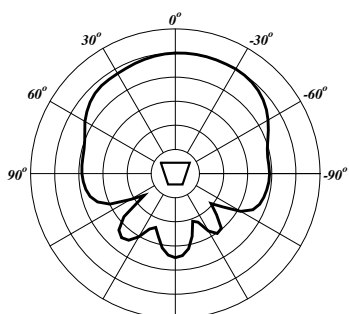


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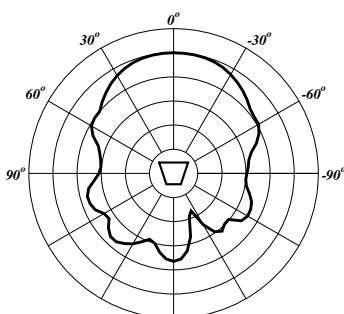


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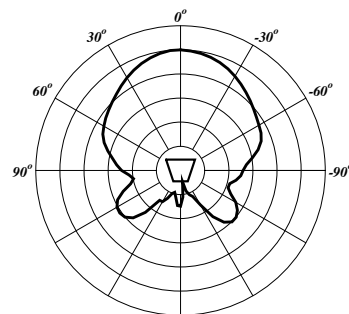
## Horizontal Polar Patterns 6 dB per Division



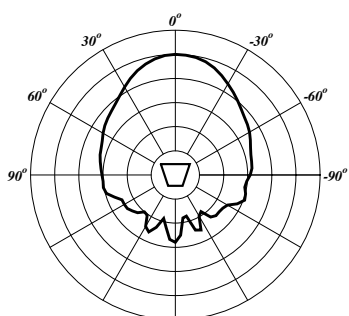
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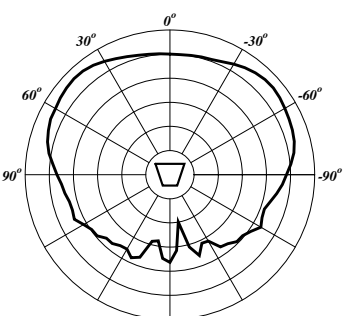
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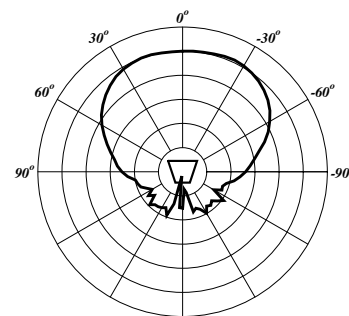
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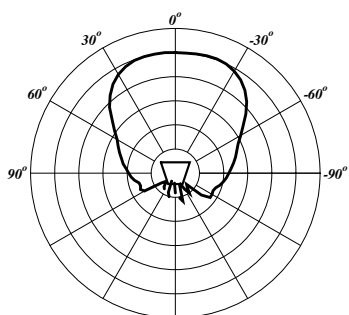
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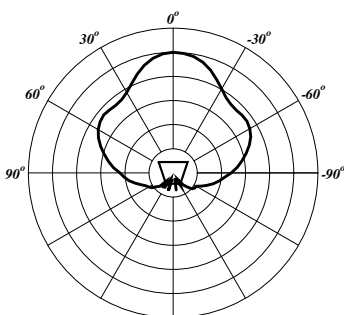
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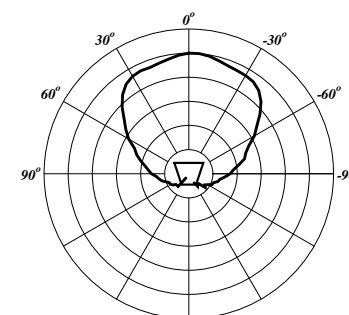
2.5 kHz



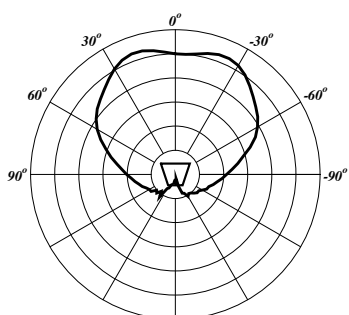
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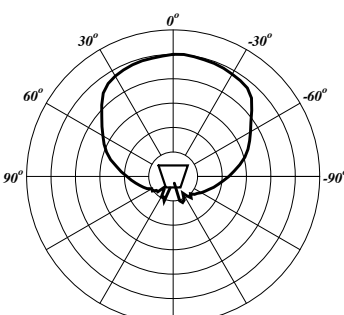
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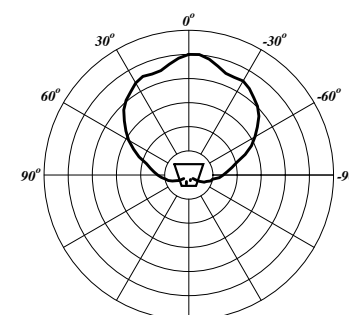
5 kHz



6.3 kHz



8 kHz

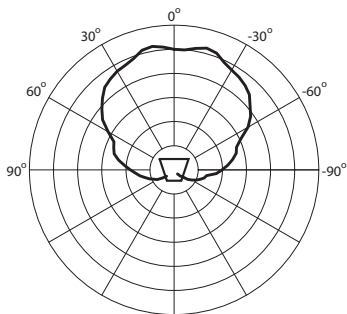


10 kHz

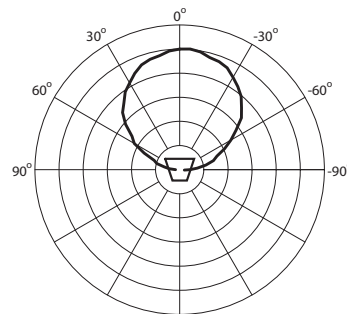


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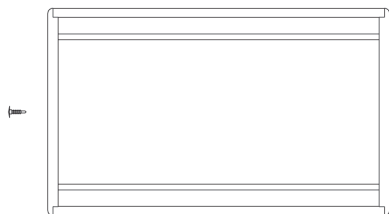
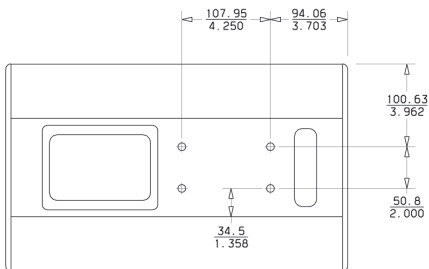
## Horizontal Polar Patterns 6 dB per Division



12.5 kHz



16 kHz



BLK-71500806  
PLUG  
(2)

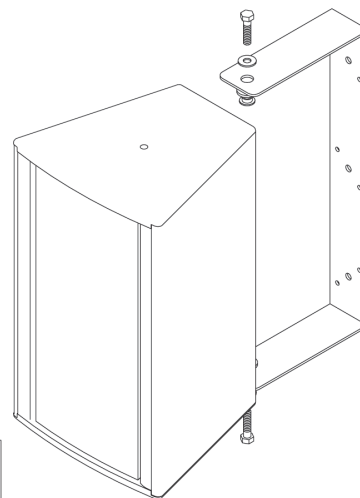
M6-1.0  
(x2)

BLK-71500540  
WHT-71500541  
WASHER  
(2)

71500715  
1/2" SHOULDER  
WASHER  
(2)

BLK-93203326  
WHT-93203327  
WALL BRACKET

71501021  
SHOULDER  
WASHER  
(2)



## 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](http://www.peavey.com)

Warranty registration and information for U.S. customers available online at  
[www.peavey.com/warranty](http://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