

DESCRIPTION

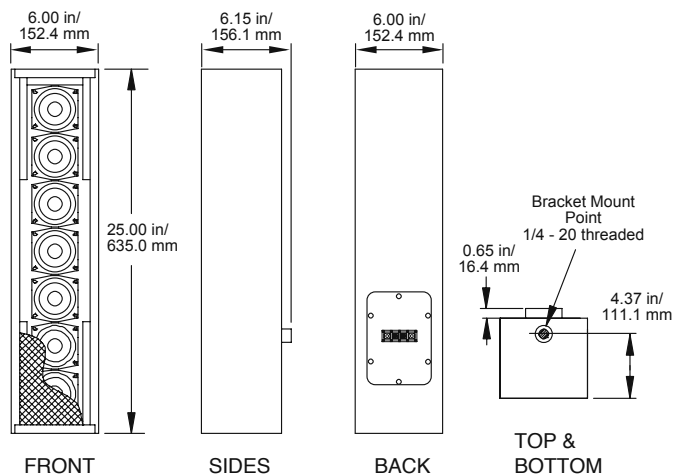
The CLA37 is an economical solution for exceptional fidelity in speech reinforcement and background music applications. It is especially suited for small to mid-sized spaces with excessive reverberation or problematic sound reflections. The drivers and system voicing are designed to maximize vocal range clarity and speech intelligibility without compromising the broadband frequency response required for pleasing music reproduction.

The CLA37 uses sophisticated, frequency shading to progressively shorten its acoustic length with increasing frequency. The result is a well-behaved nominal vertical beamwidth of 30° to below 1 kHz that eliminates troublesome lobing. In the horizontal plane, the drivers act as direct radiators. A waveguide loads the three center drivers to maintain the nominal 120° beamwidth at high frequencies.

The included bracket allows setting the enclosure's vertical angle for both wall-mounting and suspension. An optional input panel is fitted with an integral transformer for 70 V or 100 V distributed applications. The cross-ply laminated birch enclosure is available in either black or white finish and the powder coated steel grille is foam-backed to hide the drivers from view. The entire loudspeaker is fully tested at the time of manufacture and is warranted to be free from defects in materials and workmanship for a period of five years from the date of purchase.



CLA37 DIMENSIONS



Features

- Frequency-shaded, full range, column loudspeaker
- Seven high quality 3 inch drivers
- 120° H x 30° V nominal HF beamwidth
- Passive crossover for economical, single amplifier operation
- Optional 70 V / 100 V multi-tap transformer (AC-TX 64)
- Includes mounting/suspension bracket

Applications

- Houses of Worship
- Museums
- Schools
- Distrubed Systems
- Transportation Terminals
- Theme Parks
- Meeting Rooms
- Retail



CLA37

FREQUENCY-SHADED COLUMN LOUDSPEAKER

SPECIFICATIONS

PRODUCT DATA

Model Name	CLA37
Part Number	Black: 0010182 White: 0011345
File creation date	7/02/2004

SPECIFICATION SHEET TABULAR DATA:

Descriptive Data		
Ways	Type	Mode
N/A	Full-Range	Single Amp

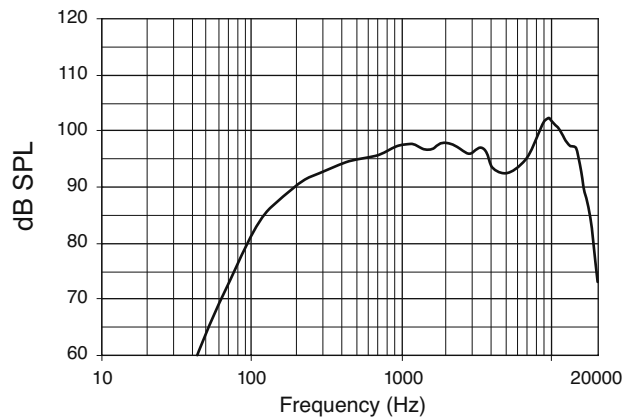
CONFIGURATION

Subsystem	Transducer	Loading
	LF	7x3 in cone — Sealed

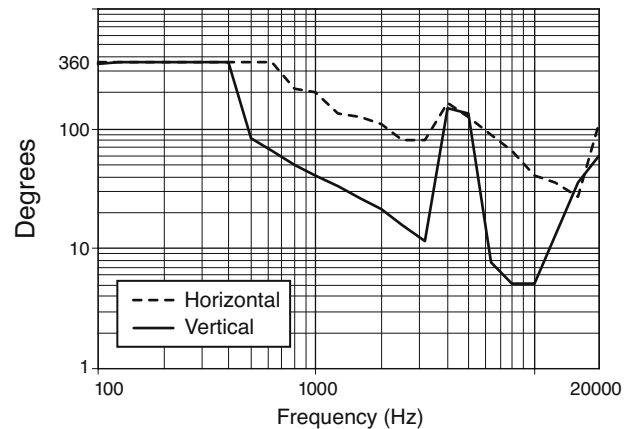
PERFORMANCE

Operating Range	140 Hz to 17500 Hz	
Nominal Beamwidth	Horizontal	120°
	Vertical	30°
Axial Sensitivity (whole space SPL)	96 dB	140 Hz to 17500 Hz
	Peak Sensitivity (whole space SPL)	102 dB
Input Impedance (ohms)	Nominal	Minimum
	8	6.3 @ 500 Hz
Recommended High-Pass Filter	High Pass => 125 Hz, 24 dB/octave Butterworth	
Power Handling	150 W	35 V @ 8 ohms
	Calculated Maximum SPL	Average
		118 dB

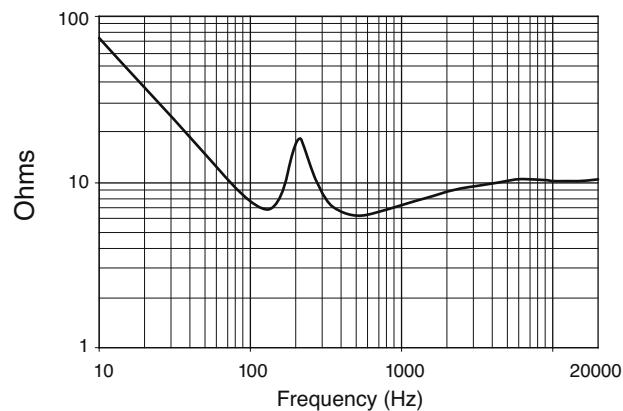
CLA37 FREQUENCY RESPONSE ON-AXIS



CLA37 BEAMWIDTH VS. FREQUENCY



CLA37 IMPEDANCE VS. FREQUENCY

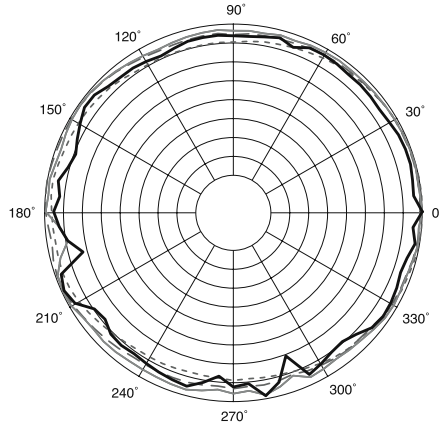




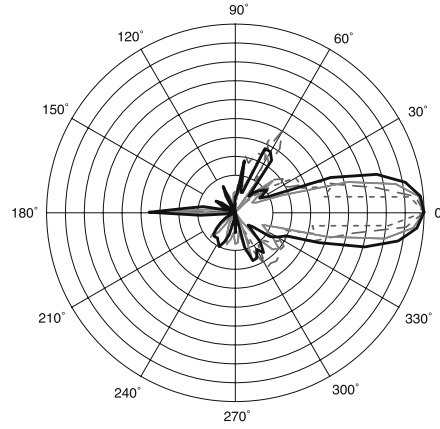
CLA37

FREQUENCY-SHADED COLUMN LOUDSPEAKER

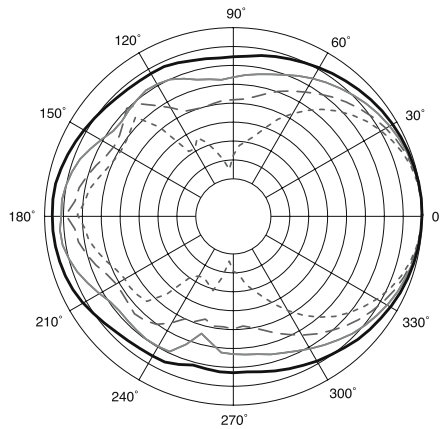
CLA37 VERTICAL POLARS



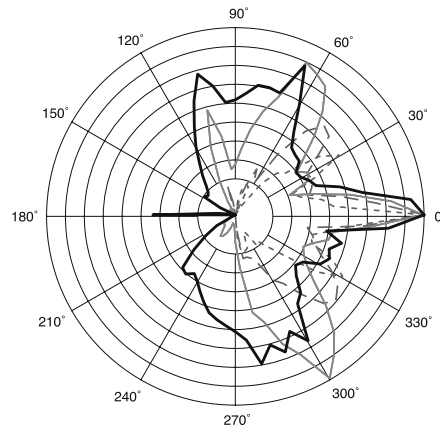
- 100 Hz
- 125 Hz
- - 160 Hz
- - - 200 Hz



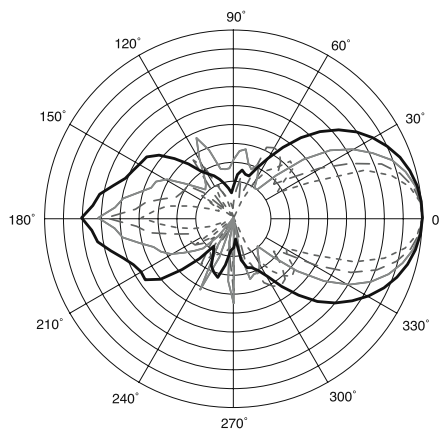
- 1600 Hz
- 2000 Hz
- - 2500 Hz
- - - 3150 Hz



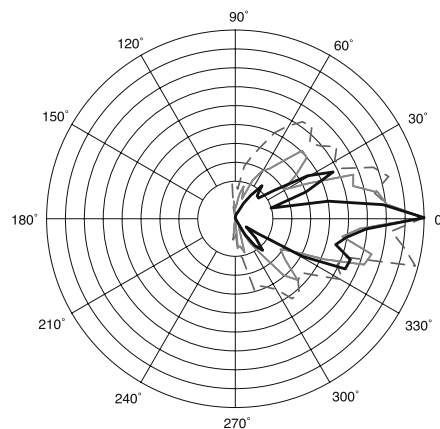
- 250 Hz
- 315 Hz
- - 400 Hz
- - - 500 Hz



- 4000 Hz
- 5000 Hz
- - 6300 Hz
- - - 8000 Hz



- 630 Hz
- 800 Hz
- - 1000 Hz
- - - 1250 Hz



- 10000 Hz
- 12500 Hz
- - 16000 Hz

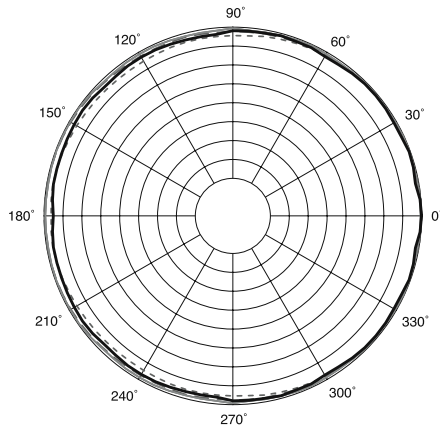
(Chart Scale = 3 dB / division)



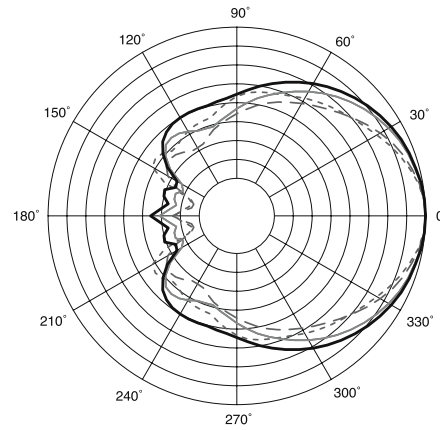
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FREQUENCY-SHADED COLUMN LOUDSPEAKER

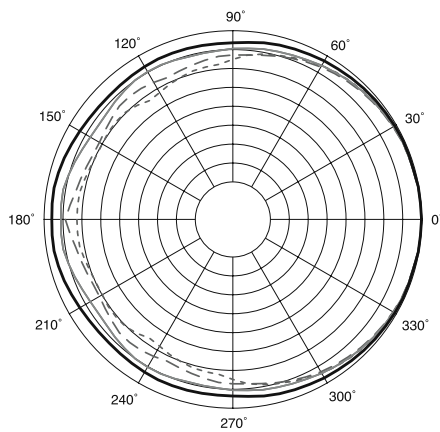
CLA37 HORIZONTAL POLARS



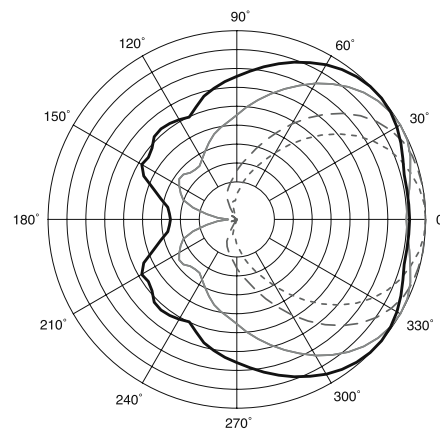
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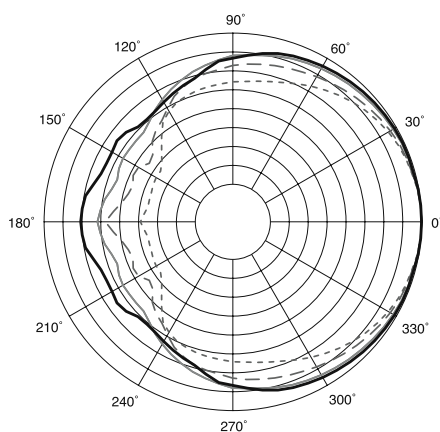
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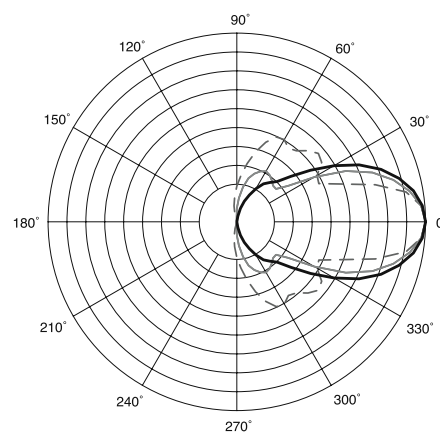
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