



SPECIFICATIONS CP621

FEATURES

- High performance passive ceiling-mount system
- Concentric Phase Aligned Array(tm) solve coaxial design problems
- 6x 5.25-in woofers couple to act like a 21-in woofer
- 1-in exit HF on large format 60° (conical) horn
- 2x phase aligned 5.25-in woofers in horn-throat
- Optional 70 volt transformer available

DESCRIPTION

A 2-way/coaxial passive full range system for permanent installation in 24-in square ceiling grids. Includes 6x concentrically arrayed 5.25-in woofers plus 2x phase aligned 5.25-in woofers and 1-in exit compression driver on a 60° (conical) constant directivity horn in a vented enclosure. Available with optional installed 70 Volt transformer (CP621T).

APPLICATIONS

The CP621 uses Concentric Phase Aligned Array Technology to achieve even response over a large defined area. Excellent power handling lets it cover a larger area than traditional ceiling mounted loudspeakers with higher quality sound. Easy installation in 24-in or 600 mm ceiling grids. Six year warranty.

Applications include:

- Gymnasiums
- Convention Centers
- Transportation Centers
- Major Malls
- Major Retail Spaces

PERFORMANCE

Frequency Response (1 Watt @ 1m)		
±3 dB	75Hz to 18kHz	
-10 dB	60Hz	
Axial Sensitivity (dB SPL, 1 Watt @ 1m)		
101		
Impedance (Ohms)		
4		
Power Handling, AES Standard (Watts)		
Full Range	300	
Calculated Maximum Output (dB SPL @ 1m)		
Peak	131.8	
Long Term	125.8	
Nominal Coverage Angle, -6 dB Points (degrees)		
Horizontal	60	
Vertical	60	
Recommended High-Pass Frequency		
24 dB/Octave	65Hz	

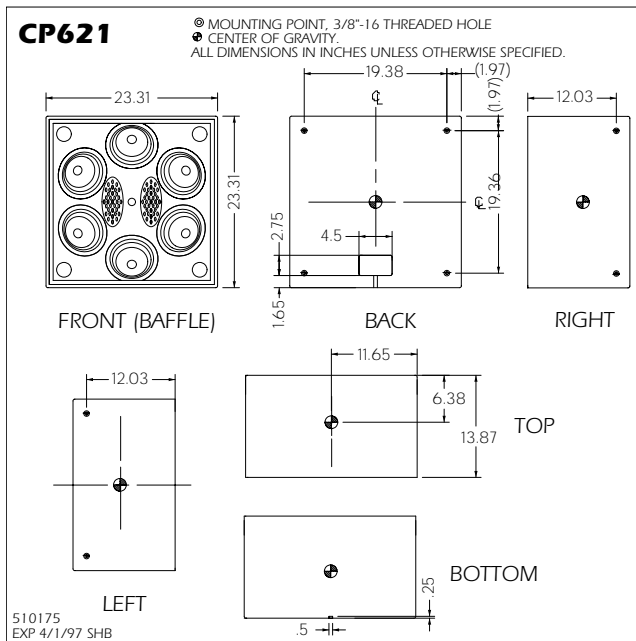


PHYSICAL

LF Subsystem	6x 5.25-in. concentrically arrayed cones, vented plus 2x 5.25-in phase aligned cones	
HF Subsystem	1x 1-in exit compression driver on constant directivity horn	
Configuration	Full range 2-way coaxial system	
Powering	Passive LF/HF crossover	
Cabinet Type (shape)	Rectangular	
Enclosure Materials	Baltic birch plywood	
Finish	Black catalyzed polyurethane	
Connectors	2-Terminal barrier strip	
Suspension Hardware	(8) 3/8"-16 threaded mounting points (2 each right and left side, 4 on top)	
Grille	Vinyl coated perforated steel	
Options	70 volt transformer version (CP621T)	
Dimensions	Inches	Millimeters
Height	23.8	605
Width	23.8	605
Depth	13.6	345
Weights	Pounds	Kilograms
Net Weight	75	34.1
Shipping Weight	79	35.9



DIMENSIONAL DRAWING



A & E SPECIFICATIONS

The 2-way full range ceiling mounted coaxial loudspeaker systems shall incorporate 6x 5.25-in concentrically arrayed LF transducers plus 2x 5.25-in phase aligned LF transducers and a 1-in exit compression driver HF transducer.

The LF drivers shall be mounted in a vented enclosure tuned for optimum low frequency response. The HF driver shall be loaded on an axis symmetrical constant directivity horn with a nominal coverage pattern of 60° (conical). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ± 3 dB from 75Hz to 18kHz measured on axis. The loudspeaker shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 131.8 SPL on axis at 1 meter. The loudspeaker shall handle 300 of amplifier power (AES Standard) and shall have a nominal impedance of 4 Ohms.

The loudspeaker enclosure shall be rectangular in shape and shall be designed to mount in a 24-in ceiling grid. It shall be constructed of 1/2-in thickness void-free cross-grain-laminated Baltic birch plywood. It shall be finished in black catalyzed polyurethane. Input connectors shall be 2-terminal barrier strip type. A total of eight 3/8"-16 threaded mounting points (2 each right and left side, 4 on back) shall be provided. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grille.

The 2-way full range ceiling mounted coaxial loudspeaker shall be the EAW model CP621.

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