

CPL⁺™ Series

CPL™ 6⁺ - 2-way Passive Speaker



PRELIMINARY



Description

The Crest Audio® CPL™ 6⁺ is a compact passive two-way loudspeaker designed for music playback, public address and live performance reinforcement applications where space is at a premium.

The CPL 6⁺ can be utilised for both permanent installations and portable live sound applications. Perfect for public address, monitoring and background audio reinforcement purposes typically required in houses of worship, clubs, bars/restaurants, retail outlets plus education and corporate meeting facilities or anywhere high quality discrete audio distribution is required.

The CPL 6⁺ is equipped with a premium 6.5 inch woofer having a 1.2 inch voice coil together with a 1 inch Neodymium compression driver known for its smooth frequency response and non-fatiguing mid range. Conical directivity pattern of the loudspeaker is measured at 90° providing a wide yet well distributed audio coverage with exceptional time alignment between resonating components. An internal advanced crossover network maintains time alignment, EQ and driver protection. Impedance of the loudspeaker is 16Ω allowing for easy daisy chaining. Connectivity is made via either looping 4-pin twist-lock or 4-pin Euroblock connectors.

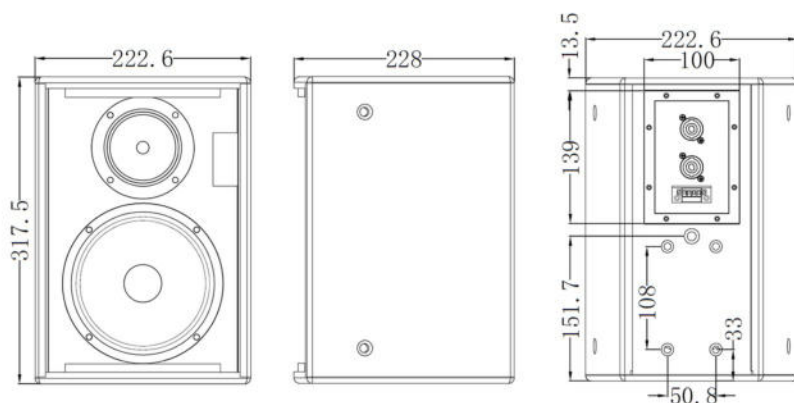
The CPL 6⁺ enclosure is built from prime-grade 12 mm plywood that offers sturdy mechanical and low resonant electro-acoustic characteristics together with a heavy-duty steel grille backed with acoustic foam to ensure maximum protection of the internal components.

Features

- **Compact passive two-way loudspeaker**
- **Premium 6.5" woofer, 1.2" voice coil**
- **1" Compression driver, 1" voice coil**
- **Continuous power handling: 75 Watts**
- **Nominal impedance: 16 Ohms**
- **Coverage pattern (HxV): 90° x 90° conical**
- **Connectors: 2 x 4-pin Twist-Lock & 4-pin Euroblock**
- **2+1/2" Loop Through**
- **Advanced crossover network**
- **Tweeter protection**
- **12 mm Plywood construction**
- **Textured polyurea paint**
- **9 x M8 suspension points
(2 top, 2 bottom, 2 each side, 1 rear)**
- **4 x M6 suspension points for Versamount 35**
- **Available in Black and White**

Configuration:	2-way Passive Speaker	Pole Mount:	Optional with special adapter
Power Continuous (Watts):	75	U-Bracket:	Optional
Power Peak (Watts):	300	Enclosure Design:	Trapezoidal
Sensitivity (1W/1m):	93 dB	Enclosure Material:	Plywood (12 mm)
Max SPL Peak:	118 dB	Black Finish:	Textured Polyurea Paint
LF Driver:	1 x Crest Audio GYKW-0630A-1 - 6.5" (165 mm)	RAL #:	TBA
Woofer Voice Coil:	1.2" (30 mm)	White Finish:	Textured Polyurea Paint
HF Driver:	1 x Crest Audio CPL69081 - 1" (25.4 mm)	RAL #:	TBA
HF Driver Voice Coil:	1" (25 mm)	Tweeter Protection:	Yes
Nominal Coverage (HxV):	90° x 90° Conical	Rubber Feet:	Yes (not mounted)
Frequency Range (-10 dB):	63 Hz - 18 kHz	Handles:	No
Frequency Response (±3 dB):	TBA Hz - TBA kHz	Loop Thru (2+/2-):	Yes
Nominal Impedance:	16 Ohms	Logo Position on Grille:	Bottom Center
Input Connectors 1:	2 x 4-pin Twist-Lock (NL4 Style)	Logo Size:	25 x 25 mm
Input Connectors 2:	1 x 4-pin Euroblock	Grille Foam Backing:	Yes (acoustically transparent)
Suspension Points:	9 x M8	Grille Mesh Size (mm):	3 x 12
Suspension Points Location:	2 x Top, 2 x Bottom, 2 x Left, 2 x Right, 1 x Rear	Monitor Tilt Angle:	No
Suspension Points Rear:	4 x M6 (for optional Versamount 35)	Net Weight:	14.29 lbs (6.48 kg)
Mounting Points for U-Bracket:	Yes (2 x M8 - Top & Bottom)	Dimensions (HWD):	12.52 x 8.78 x 8.98 in (318 x 223 x 228 mm)

Dimensions



Accessories



Architect's & Engineer's Specifications

The compact loudspeaker shall consist of a 6.5 inch (165 mm) low frequency transducer with 1.2 inch (30 mm) voice coil and a 1 inch (25 mm) compression driver with a frequency dividing network installed within the enclosure.

Performance specifications of a typical production unit shall be: Measured sensitivity SPL at 1 m (3.3ft) with 2.83V input, shall be 93 dB-SPL. Usable frequency response shall extend from 63 Hz to 18 kHz (10 dB below rated sensitivity, in half-space, with no external equalization). Nominal impedance shall be 8 ohms. Rated power capacity shall be at least 75 Watts continuous power and 300 Watts peak power, defined as 3 dB above a test signal of filtered random noise.

The system shall be protected against damage from occasional over-powering limiting the power to the network and transducers. The compression driver shall be capable of even coverage at a nominal 90° horizontal through 90° conical distributed pattern.

The enclosure shall be constructed from prime-grade 12 mm plywood. The grille shall be of heavy-duty steel backed with acoustically transparent foam. The external wiring shall be via either two 4-pin Twist-Lock or one 4-pin Euroblock connectors. The loudspeaker shall be no more than 12.52 inches (318 mm) high by 8.78 inches (223 mm) wide by 8.98 inches (228 mm) deep weighing no more than 14.29 pounds (6.48 kg). The finish shall be a paintable lightly textured black or white.

The compact loudspeaker shall be the Crest Audio CPL™ 6⁺.