

CPL™ T Series

2-way Ceiling Speakers



CPL 4T | CPL 6T | CPL 8T

PRELIMINARY



Description

Designed to provide high performance wide distributed audio coverage in an elegant discrete package with a low recessed profile, the Crest Audio® CPL™ T series of ceiling mounted enclosure appeal to both systems designers and architects.

A five (5) step Tap selectable switch, at the speaker face and behind the front grill, allows for easy adjustment before and after installation, for both 70V or 100V Hi-Z distributed speaker lines and up to 90W selectable (model dependent). For Lo-Z speaker connectivity an 8Ω transformer bypass setting is included for maximum versatility.

The enclosure is constructed of high-impact injection moulded plastic. The front grill is magnetically attached and can be painted to suite any interior finish.

Further more the CPL T series of ceiling speakers are housed in a steel fire rated backcan including a 4-pin screw terminal to allow for easy daisy-chain wiring terminations.

Features

- 4" woofer (CPL 4T), 6.5" woofer (CPL 6T) and 8" woofer (CPL 8T)
- 1" Soft dome tweeter with Titanium membrane
- Continuous power handling:
 - 40 Watts (CPL 4T)
 - 50 Watts (CPL 6T)
 - 90 Watts (CPL 8T)
- Nominal impedance: 8 Ohms
- Connectors: 4-pin screw terminal
- Loop Through
- Advanced crossover network
- Combined 70/100V and low impedance operation
- Five (5) transformer taps for each 70V and 100V
- Tweeter can be aimed towards listening area
- Magnetic front grille
- Steel backcan
- Available in White

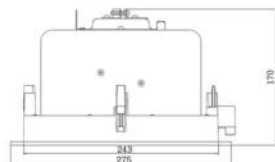
CPL™ T Series - Ceiling Speakers

Specifications

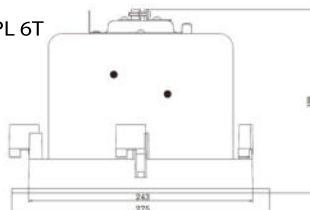
	CPL 4T	CPL 6T	CPL 8T
Frequency Response (-10 dB):	90 Hz - 18 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz
Program Power Rating @ 8 Ohms:	40 Watts	50 Watts	90 Watts
Nominal Impedance:	8Ω	8Ω	8Ω
Coverage (HxV):	90° x 90°	90° x 90°	90° x 90°
Nominal Sensitivity (1W @ 1m):	86 dB	88 dB	88 dB
SPL Peak:	105 dB	108 dB	111 dB
Transformer Taps @ 100V:	15W, 7.5W, 3.75W, 1.9W, 1W	30W, 15W, 7.5W, 3.75W, 1.9W	50W, 25W, 12.5W, 6.25W, 3.1W
Transformer Taps @ 70V:	7.5W, 3.75W, 1.9W, 1W, 0.5W	15W, 7.5W, 3.75W, 1.9W, 1W	25W, 12.5W, 6.25W, 3.1W, 1.5W
LF Transducer:	4" (102 mm)	6.5" (165 mm)	8" (203 mm)
LF Transducer Material:	PP Cone and Rubber Surround	PP Cone and Rubber Surround	PP Cone and Rubber Surround
HF Transducer:	1" (25 mm) Soft Dome Tweeter	1" (25 mm) Soft Dome Tweeter	1" (25 mm) Soft Dome Tweeter
HF Transducer Material:	Titanium Membrane	Titanium Membrane	Titanium Membrane
Crossover Frequency:	4 kHz	4 kHz	4 kHz
Recommended filter type and point:	24 dB/oct., Linkwitz-Riley @ 80 Hz	24 dB/oct., Linkwitz-Riley @ 80 Hz	24 dB/oct., Linkwitz-Riley @ 70 Hz
Outside Dimension (Diameter x Depth):	10.83" x 6.69" (275 mm x 170 mm)	10.83" x 7.84" (275 mm x 199 mm)	10.83" x 8.74" (275 mm x 222 mm)
Ceiling Cutout Diameter:	9.57" (243 mm)	9.57" (243 mm)	9.57" (243 mm)
Net Weight:	3.86 lbs (1.75 kg)	6.17 lbs (2.80 kg)	6.72 lbs (3.05 kg)
Backcan Material:	Steel	Steel	Steel
Housing Material:	ABS	ABS	ABS
Grille mounting:	Magnetic	Magnetic	Magnetic
Input Connectors:	Srew Terminal	Srew Terminal	Srew Terminal
Logo Rotatable:	Yes (360°)	Yes (360°)	Yes (360°)
Safety Ring:	Yes	Yes	Yes

Dimensions

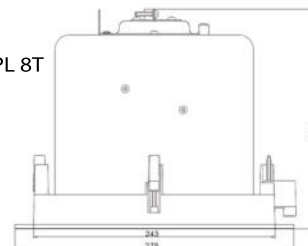
CPL 4T



CPL 6T



CPL 8T



Architect's & Engineer's Specifications

The ceiling speaker series shall include three models of two-way flush-mounting speakers with backcans suitable for a wide range of applications.

The speakers shall be equipped with a 4 inch (102 mm), a 6.5 inch (165 mm) or an 8 inch (203 mm) woofer, all combined with a 1 inch (25 mm) soft dome tweeter with titanium membrane. All units of this series accept low impedance signals as well as 70 / 100 V constant voltage lines via the internal transformers with taps from 0.5W to 50W depending on the model.

Performance specifications of a typical production unit shall be: Measured sensitivity SPL at 1 m (3.3ft) with 2.83V input, shall be 86 / 88 / 88 dB-SPL. Usable frequency response shall extend from 90 Hz to 18 kHz / 80 Hz to 20 kHz / 75 Hz to 20 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 40 / 50 / 90 Watts continuous power, defined as 3 dB above a test signal of filtered random noise.

The enclosure shall be constructed from ABS with a steel backcan. The grille shall be of heavy-duty steel. The external wiring shall be via 4-pin srew terminal connectors. The loudspeakers shall be no more than 10.83 inches (275 mm) front face diameter and 6.69 / 7.84 / 8.74 inches (170 / 199 / 222 mm) overall depth, and shall weigh no more than 3.86 / 6.17 / 6.72 pounds (1.75 / 2.80 / 3.05 kg). The finish shall be a painted white.

The ceiling speaker series shall be the Crest Audio CPL™ T series models; CPL 4T, CPL 6T, and CPL 8T or approved equivalent.

