Professional Series

Key Features:

- Consistent 120° broadband pattern control for exceptional coverage.
- Coaxial design featuring:
  - 25 mm (1 in) compression driver.
- Extraordinary clarity for speech and vocals with extended frequency response for music.
- 150 Watts Power Handling.
- Advanced high-slope crossover network for constant coverage and smooth, natural midrange.
- Integrated back can with contemporary grille.

Applications:

The JBL Professional Control 226C/T is a premium in-ceiling professional loudspeaker designed for applications requiring superior quality sound in ceiling-mount applications. Delivering exceptional next-generation performance in a medium format coaxial point source design, the Control 226C/T incorporates breakthrough performance features such as best-in-class pattern control to provide a consistent sound throughout the listening area. Especially wide coverage allows fewer speakers to cover the space, reducing both the material and labor cost for the installation.

The Control 226C/T features a 165 mm (6.5 in) Kevlar-reinforced low frequency driver coupled with a 25 mm (1 in) exit titanium compression driver for outstanding reliability and performance. The system is complete with a pre-attached back can and is designed for years of maintenance free use.

Easy to install, the Control 226C/T features JBL Professional’s proven C-Ring with Tile Rail suspension system. Installation can be accomplished from beneath the ceiling structure for instances when access above the ceiling tile is not possible. Additionally, the removable multi-pin locking connector, with secure screw-down terminals, allows for pre-wiring the input wires for easy clip-on convenience during installation.

A top quality, low saturation 68 Watt multi-tap transformer comes pre-attached on the Control 226C/T enabling the system to be used on 70V or 100V distributed speaker lines. The system can be used in either 8 ohm (low impedance) or transformer mode by selecting the desired function via the baffle mounted impedance switch.

The clean, contemporary look of the Control 226C/T’s grille is designed to suit a variety of settings, offering a simple, elegant appearance that fits into a wide variety of décors.

Preliminary Specifications:

<table>
<thead>
<tr>
<th>System</th>
<th>Frequency Range (-10 dB): 47 Hz - 19 kHz</th>
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<tbody>
<tr>
<td></td>
<td>Frequency Response (+3 dB): 74 Hz - 17 kHz</td>
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<td>Coverage Pattern: 120° conical, broadband</td>
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<td></td>
<td>Directivity Factor (Q): 6 (1 kHz - 16 kHz)</td>
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<td>Directivity Index (DI): 7.9 dB (1 kHz - 16 kHz)</td>
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<td>Long-Term System: 150 W (600 W peak), 2 hrs</td>
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<td>Power Rating, IEC3: 100 W (400 W peak), 100 hrs</td>
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<td></td>
<td>Sensitivity (2.83V @ 1 m): 95 dB measured half-space</td>
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<td></td>
<td>Maximum SPL: 112 dB continuous average (118 dB peak)</td>
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<td></td>
<td>Crossover Network: 2.2 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 3rd order low-pass to LF</td>
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<td>Nominal Impedance (bypass mode): 8 ohms</td>
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<td>Transformer Taps: 70V: 68W, 34W, 17W, 8.5W</td>
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**Sensitivity (2.83V @ 1 m):**

- 95 dB measured half-space
- 95 dB computed for competitive comparison

**Transformer Taps:**

- 70V: 68W, 34W, 17W, 8.5W
- 100V: 68W, 34W, 17W

**Coverage Pattern2:**

- 120° conical, broadband

**Directivity Factor (Q):**

- 6 (1 kHz - 16 kHz)

**Directivity Index (DI):**

- 7.9 dB (1 kHz - 16 kHz)

**Long-Term System:**

- 150 W (600 W peak), 2 hrs

**Power Rating, IEC3:**

- 100 W (400 W peak), 100 hrs

**Sensitivity (2.83V @ 1 m):**

- 95 dB measured half-space

**Maximum SPL:**

- 112 dB continuous average (118 dB peak)

**Crossover Network:**

- 2.2 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 3rd order low-pass to LF

**Nominal Impedance (bypass mode):**

- 8 ohms

**Transformer Taps:**

- 70V: 68W, 34W, 17W, 8.5W
- 100V: 68W, 34W, 17W

**Transducers:**

- Low Frequency Driver: 165 mm (6.5 in) Kevlar reinforced cone
- High Frequency Driver: 25 mm (1 in) exit compression driver

**Enclosure:**

- Input Connectors: Two removable locking 2-pin connector with screw-down terminals. Max wire 12 AWG (2.5 mm)
- Tap Settings: 8 ohms
- Transformer Taps: 70V: 68W, 34W, 17W, 8.5W
- 100V: 68W, 34W, 17W

**Safety Agency Rating:**

- Suitable for use in air handling spaces per UL1480, UL2043, NFPA90 & NFPA 70. S7232/UL Listed, Signaling Speaker. Transformer UL registered per UL1976.

- In accordance with IEC60849/EN68049.

**Dimensions (Diameter x Depth):**

- Ø 330 mm (13 in) round baffle x depth from back of baffle of 246 mm (9.7 in)

**Cutout Size:**

- Ø 307 mm (12.1 in)

**Net Weight:**

- 9.1 kg (20.0 lb)

**Shipping Weight (in pairs):**

- 25.9 kg (56.5 lb)

**Optional Accessories:**

- MTC-19NC New Construction Bracket
- MTC-19MR Mud Ring Construction Bracket

In half space (in ceiling)

- Average 1 kHz to 16 kHz

**IEC standard, half bandwidth pink noise with 6 dB crest factor.**

**Measured in full space with 6 dB added for half-space calculation. Method used by some European manufacturers, listed for comparison purposes.

**Calculated based on power rating and measured half-space sensitivity, exclusive of power compression.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.
Control® 226C/T 6.5" Coaxial Ceiling Loudspeaker

Beamwidth:

Frequency Response:
Half-space (2π, mounted in ceiling) in 0.5 cu ft Backbox

Directivity Index:

Horizontal Off-Axis Frequency Response:
All measurements obtained without signal processing.
Graphs are from unaltered measurement data.

Dimensions:

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