

### EVID C4.2 Ceiling

4" Two-Way Coaxial Ceiling Loudspeaker System



#### **Key Features:**

- 4" coaxial two-way
- Waveguide coupled Ti tweeter
- Full bandwidth overload protection
- Front baffle wattage tap adjustment
- Integrated low loss matching transformer allows for either 70v/100v or 8-ohm operation
- Includes tile bridge and mounting ring for easy installation
- Integrated ported enclosure for extended bass response



#### **General Description:**

The Electro-Voice ® EVID C4.2 loudspeaker system is a complete two-way ceiling loudspeaker package. The package consists of a bezel assembly, grille, rear enclosure, 4-inch coax two-way loudspeaker and internal line-matching transformer. The loudspeaker features a waveguide coupled titanium coated dome tweeter. The EVID C4.2 loudspeaker utilizes a 2<sup>nd</sup> order crossover network at 3.3 kHz, with a comprehensive protection circuit to protect the network, woofer, and tweeter drivers from excessive power levels. The C4.2 utilizes a transformer that offers a selection of 1.88 (70-V only), 3.75, 7.5, 15 or 30 watts delivered to the loudspeaker system using either 70-V or 100-V lines, or 8 ohm bypass. Selection is via a convenient switch on the front baffle. The perforated grille is finished in semi-gloss white powder-coated enamel. The baffle and bezel are constructed from UL 94V-0 rated ABS. The rear enclosure is constructed from zinc-plated, heavy gauge steel. The rear enclosure, with fiberglass damping material, provides an optimum internal volume for extended low-frequency performance. A rear cover, with provisions for a junction box fitting, provides access to a 4-pin terminal block that allows direct connection to the speaker with 12 gauge wire and provides pass through to additional speakers. A tile bridge is included for safe suspension of the C4.2 ceiling systems in a drop ceiling that uses mineral wool, or other fiber-based ceiling tiles. The EVID line of ceiling speakers has been designed to work together as a complete system in a wide range of different ceiling constructions. They provide wide dispersion, high-efficiency, high-maximum output, ease of installation, and wide-range reproduction of music or voice.

#### **Technical Specifications:**

Freq. Range (-10 dB):65 Hz - 20 kHzCoverage (Conical):130°Power Handling:80 W Cont. / 320 W PeakSensitivity (SPL 1W/1m):86 dBMax Calculated SPL:110 dBImpedance:8 Ohms nominal (transformer bypass)Network:Network and transducers protected, 12 dB/oct 3.3 kHzLF Transducer:4 in. (100 mm) Polypropylene coneHF Transducer:75 in (19 mm) Ti Mylar laminateTransformer Taps:70V:1.88, 3.75, 7.5, 15 or 30W Bypass:80 hmsConnectors:Phoenix type removable, with screw terminals and "loop-thru", accepts 12 ga wireEnclosure Material:Baffle - UL 94V-O rated ABS Backcan - Zinc plated steelGrille:Perforated powder coated steel with safety tetherSupport Hardware:Tile bridge, backing plate support, cutout template, paint shieldDim (H x Dia.):6.9" x 7.1" (176mm x 181mm)Cutout Size:7.25" (184mm)Net Weight (each):6.0 lbs (2.7 kg)Shipping Weight (pair):14.0 lbs (6.4 kg)		
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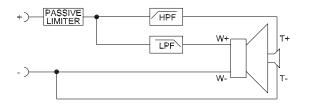
All Specifications based on Half Space Environment in ceiling

# **Ev** Electro-Voice<sup>®</sup>

#### Architects' & Engineers' Specifications:

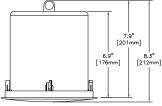
The EVID C4.2 loudspeaker system shall be comprised of a UL 94V-0 fire rated ABS baffle/bezel assembly, zinc plated steel rear enclosure, powder coated grille with safety tether, transformer with 8 ohm bypass and 4-inch polypropylene low frequency transducer with coaxially-mounted waveguide loaded 3/4-inch titanium coated dome tweeter. The loudspeaker shall meet the following criteria: power rating shall be 80 watts of EIA RS-426A pink noise (6 dB crest factor). Frequency response, uniform from 65 Hz to 20 Hz. Pressure sensitivity, 86 dB SPL at 1 meter (3.3 feet) on axis with one watt of pink noise (ref. 20µPa). Minimum impedance, 6.0 ohms. The loudspeaker shall be 181 mm (7.1 in.) in diameter and 176 mm (6.9 in.) deep. Weight shall be 2.7 kg. (6.0 lb) The coaxial ceiling loudspeaker shall be the Electro-Voice  $\circledast$  model EVID C4.2.

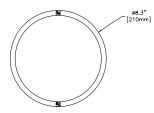
## **Block Diagram:**



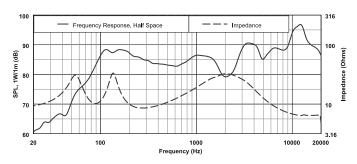
#### **Dimension Drawings:**

# 97,1\* [181mm]

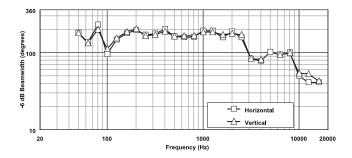




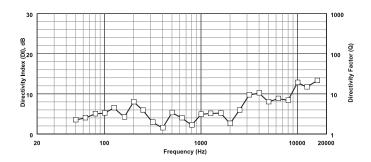
#### **Frequency Response:**



#### Beamwidth:



#### **Directivity:**



#### Performance Match:

- EVID C10.1 Subwoofer
- CPS-1 Power Amplifier
- CPS-2 Power Amplifier
- CPS-2T Power Amplifier
- MA-1206 Mixer Amplifier
- MA-1212 Mixer Amplifier

EVID C4.2 Part Number

• 301258-000

**Ev Electro 1/oice**°

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#### www.electrovoice.com

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