

## C SERIES

# C6

TWO-WAY, FULL-RANGE, 6.5-INCH  
CEILING MOUNT LOUDSPEAKER SYSTEM



## SPECIFICATIONS

|                                       |   |                                |       |                     |       |
|---------------------------------------|---|--------------------------------|-------|---------------------|-------|
| <b>Loudspeaker Type:</b>              | Two-way, full-range, coaxial ceiling loudspeaker, 8 ohm or 70V/100V operation   |                                |       |                     |       |
| <b>Operating Range:</b>               | 70 Hz - 13.5 kHz (-10 dB)   |                                |       |                     |       |
| <b>Frequency Response:</b>            | 115 Hz - 12.5 kHz (-3 dB)   |                                |       |                     |       |
| <b>Max Input Ratings (8 ohm):</b>     | 60W continuous, 150W program<br>21.9 volts RMS, 43.8 volts momentary peak   |                                |       |                     |       |
| <b>Transformer Taps - 70V:</b>        | 30W, 15W, 7.5W, 3.75W, and 8 ohm selectable   |                                |       |                     |       |
| <b>100V:</b>                          | 30W, 15W, 7.5W, and 8 ohm selectable  |                                |       |                     |       |
| <b>Distortion—</b>                    | <b>10% Full Power:</b>  | <b>2nd Harmonic</b>            |       | <b>3rd Harmonic</b> |       |
|                                       |   | 500 Hz                         | 0.33% | 0.55%               | 0.25% |
|                                       | 2 kHz   | 1.11%                          | 0.80% | 0.67%               | 0.23% |
|                                       | 8 kHz   | 2.49%                          | 0.21% | 0.30%               | 0.06% |
| <b>Sensitivity (1W/1m):</b>           | 91 dB SPL (125 Hz to 12.5 kHz 1/3 octave bands)   |                                |       |                     |       |
|                                       | 91 dB SPL (250 Hz to 4 kHz speech range)  |                                |       |                     |       |
| <b>Maximum Output - 8Ω:</b>           | 109 dB SPL / 115 dB SPL (peak)  |                                |       |                     |       |
|                                       | <b>70V:</b>   | 106 dB SPL / 112 dB SPL (peak) |       |                     |       |
|                                       | <b>100V:</b>  | 106 dB SPL / 112 dB SPL (peak) |       |                     |       |
| <b>Nominal Impedance:</b>             | 8 ohms  |                                |       |                     |       |
| <b>Minimum Impedance:</b>             | 7 ohms @ 10 kHz   |                                |       |                     |       |
| <b>Nominal Coverage:</b>              | 120° conical (1 kHz to 6 kHz ±65°)  |                                |       |                     |       |
|                                       | 120° conical (500 Hz to 6 kHz ±65°)   |                                |       |                     |       |
| <b>Axial Q / DI:</b>                  | 4.9/6.9, 500 Hz to 6 kHz  |                                |       |                     |       |
| <b>Crossover Frequency:</b>           | 2 kHz   |                                |       |                     |       |
| <b>Recommended Signal Processing:</b> | 100 Hz, at 24 dB per octave high pass filter  |                                |       |                     |       |
| <b>Drivers:</b>                       | LF 1 x 6.5-inch cone  |                                |       |                     |       |
|                                       | HF 1 x ¾-inch exit compression driver   |                                |       |                     |       |
| <b>Driver Protection:</b>             | Self-resetting solid state circuit breaker  |                                |       |                     |       |
| <b>Input Connection:</b>              | 4-pole Euroblock connector with two pair of non-interrupt parallel connections  |                                |       |                     |       |
| <b>Controls:</b>                      | Front-face wattage / low impedance selector switch  |                                |       |                     |       |
| <b>Enclosure:</b>                     | Corrosion-resistant zinc plated steel   |                                |       |                     |       |
| <b>Finish:</b>                        | White or black  |                                |       |                     |       |
| <b>Mounting/Rigging Provisions:</b>   | 2 ABS mounting clamps with 1.75-inch grip range   |                                |       |                     |       |
| <b>Grille:</b>                        | Powder coated steel with safety line, white or black finish, paintable  |                                |       |                     |       |
| <b>Baffle:</b>                        | Reflex loaded UL 94V-0 rated ABS  |                                |       |                     |       |
| <b>Safety Features:</b>               | 2 x safety hang points  |                                |       |                     |       |
| <b>Safety Agency Ratings:</b>         | ETL listed to comply with UL1480, UL2043 and CSA60065. Suitable for use in air handling spaces per NFPA 70 and NFPA 90. |                                |       |                     |       |
| <b>Required Accessories:</b>          | Electronic high pass filter   |                                |       |                     |       |
| <b>Supplied Accessories:</b>          | Tile support bridge rails, grille, paint mask, cut-out template, flat screwdriver                                       |                                |       |                     |       |
| <b>Optional Accessories:</b>          | C6-CATR Can Adapter / Trim Ring (white)   |                                |       |                     |       |
|                                       | C6-CATR-B Can Adapter / Trim Ring (black)   |                                |       |                     |       |
|                                       | C6-NCB New Construction Bracket   |                                |       |                     |       |
| <b>Dimensions - Width:</b>            | 9.80 inches (248.9 mm) bezel diameter   |                                |       |                     |       |
| <b>Depth:</b>                         | 6.49 inches (164.8 mm) can depth  |                                |       |                     |       |
| <b>Cutout Diameter:</b>               | 8.86 inches (225 mm)  |                                |       |                     |       |
| <b>Weight:</b>                        | 7.1 lbs (3.2 kg)  |                                |       |                     |       |



## APPLICATIONS

- Convention centers, exhibit halls
- Corporate training rooms, ballrooms
- Athletic venues, sports facilities, health clubs
- Houses of worship
- Malls, airports
- Nightclubs, bars, restaurants

## FEATURES

- High intelligibility with exceptional uniform coverage
- Consistent, wide dispersion up to 16 kHz
- True coaxial loudspeakers with HF compression drivers
- Tru-Phase™ high-frequency waveguide
- Spring loaded Drop-Stop™ installation assistant tabs support the back can on the included rails simplify installation
- Uniquely designed tile bridge support rails prevent ceiling tile sagging
- External loop-through Euroblock connectors
- Rear cover with integrated cable clamp (strain relief) and optional conduit knockout
- Face-mounted adjustable tap position selector switch
- Selectable 8 ohm or 70V/100V operation

## DESCRIPTION

Available in standard black or white finishes, the C SERIES C6 provides high quality paging and musical performance. Uniform voicing throughout the C SERIES means that the C6 can be combined with other models of the Commercial Design product family without compromising consistency from zone to zone. Community's proprietary Tru-Phase™ waveguide produces a consistently wide conical polar response up to 16 kHz. The genuine coaxial design uses separate magnets for the LF and HF drivers for reduced distortion and industry-leading sensitivity, thereby permitting up to 3 dB greater output level while requiring up to half the amplification power of competing products. Exclusive Drop-Stop™ tabs allow single-handed placement to speed installation and reduce labor time. Drop-Stop's spring-loaded legs support the back can so that the installer no longer needs to hold the can against the tile while tightening the clamps. The front-face wattage selector switch enables quick adjustment of 70V/100V tap levels. A variety of installation accessories are available to accommodate different ceiling materials.

### NOTES:

1. Sensitivity: Half space pink noise measurement at 3.28ft (1.0 m) using an input of 2.83 V RMS.
2. Watts: All wattage figures are calculated using the rated nominal impedance.
3. Frequency response and sensitivity are half-space measurements.

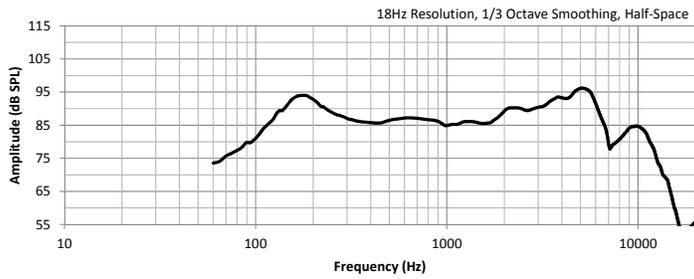
# C SERIES

# C6

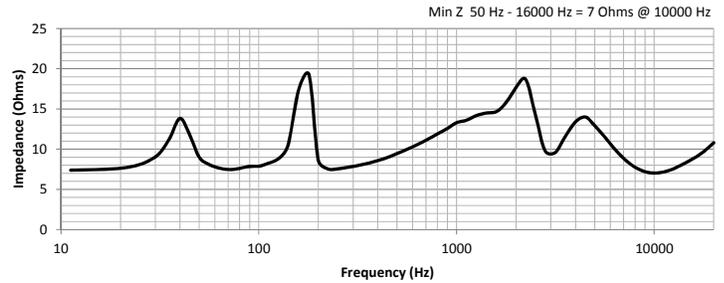
## TWO-WAY, FULL-RANGE, 6.5-INCH CEILING MOUNT LOUDSPEAKER SYSTEM



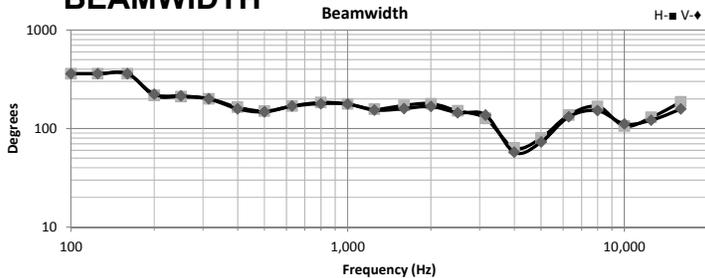
### FREQUENCY RESPONSE



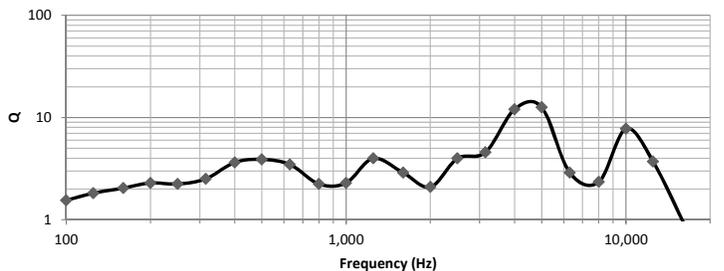
### IMPEDANCE



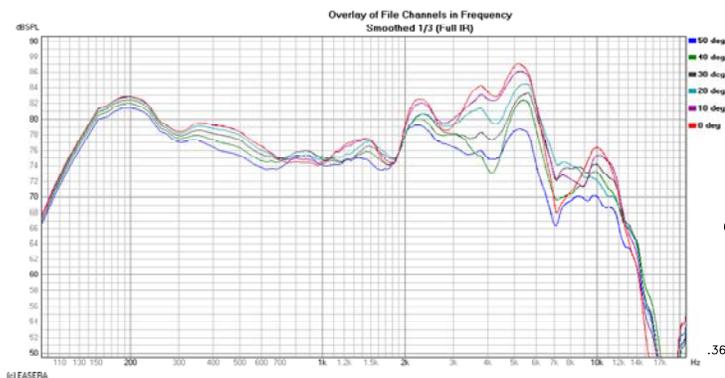
### BEAMWIDTH



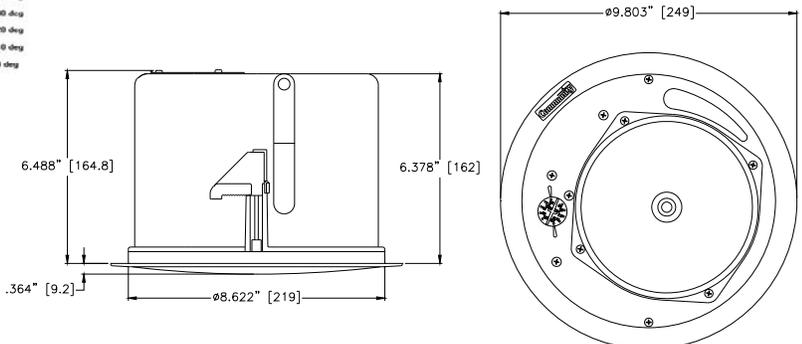
### AXIAL Q



### DISPERSION DEVIATION



### DIMENSIONS



## ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range ceiling mount system with a 6.5-inch low frequency transducer with a coaxially mounted 0.75-inch exit high frequency compression driver. The drivers shall be connected to an integral crossover with a crossover frequency of 2 kHz, with a self-resetting solid state circuit breaker for driver protection. The paintable loudspeaker baffle shall be constructed of UL 94V-0 rated ABS material and available in a white or black finish. The back can shall be constructed of corrosion-resistant zinc plated steel featuring spring loaded Drop-Stop™ installation assistant tabs. The back can shall include a recessed termination box with a removable locking connector with screw terminals for secure wire termination with "loop through" ability. Strain relief will be provided by a clamping mechanism for use with plenum rated cable or conduit. The system shall have an amplitude response of 70 Hz to 13.5 kHz (-10dB) and a low impedance (8 ohm) input capability of 22V RMS. The sensitivity at 1W/1m shall be 91 dB SPL (100 Hz to 12.5 kHz 1/3 octave bands). The loudspeaker system shall have a conical coverage pattern of 120° conical (500 Hz to 6 kHz ±65°). The nominal system impedance shall be 8 ohms (in low impedance setting). The system shall be equipped with a 30W high performance autoformer for use in 70.7V or 100V distributed audio systems, with 30W, 15W, 7.5W, and 3.75W taps available in 70.7V distributed systems (30W, 15W, 7.5W taps available in 100V distributed systems). An easily accessible front-face tap selector switch located on the front baffle, which is concealed by the supplied removable grille, shall be available for selecting autoformer and low impedance settings. Two tile rails and two spacer support bridge rails shall be included. The loudspeaker system shall have a bezel diameter of 9.80 inches (248.9 mm), a can depth of 6.49 inches (164.8 mm) and weigh 7.1 lbs (3.2 kg). There shall be available an optional Can Adapter/Trim Ring (available in both white and black) for retrofit installations of the loudspeaker system into an existing larger industry back can or into an existing but oversized ceiling hole up to 11 inches (279 mm) in diameter, and an optional New Construction Bracket for installing the loudspeaker system in new construction before drywall or plaster is put into place.

The system shall be ETL listed to comply with UL1480, UL2043 and CSA60065 and suitable for use in air handling spaces per NFPA70 and NFPA90. The loudspeaker system shall be the Community C SERIES C6 (or C6-B).

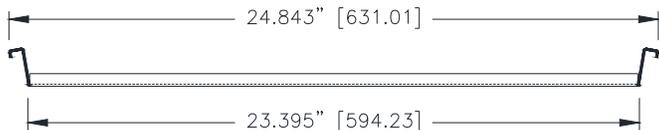
*Community strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.*

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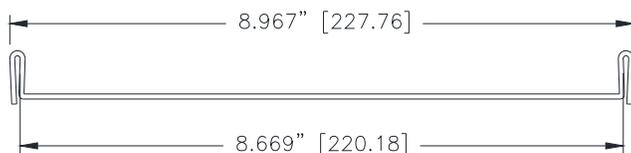
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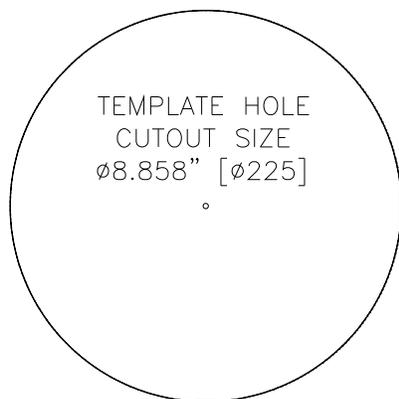
## INCLUDED ACCESSORIES



**TILE RAIL**

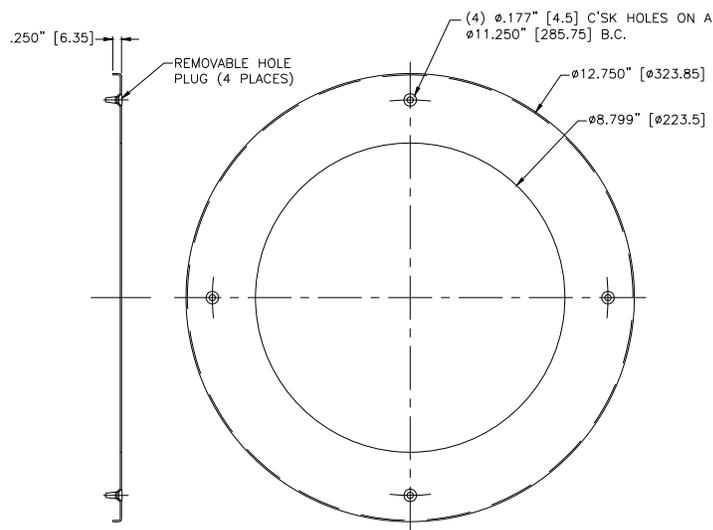


**TILE RAIL SPACER**

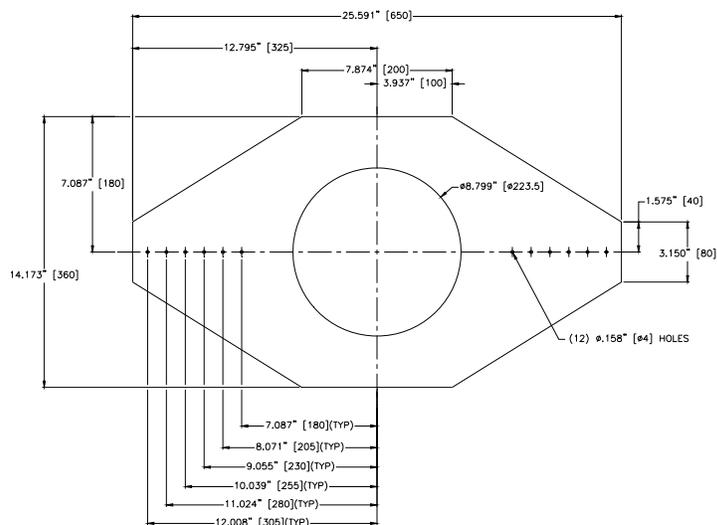


**HOLE CUT-OUT TEMPLATE**

## OPTIONAL ACCESSORIES



**CAN ADAPTER / TRIM RING**



**NEW CONSTRUCTION BRACKET**