

Install Speakers

ATHENS TCS52C-T-WH

2 Way 5" Full Range Ceiling Loudspeaker
with Line Transformer for Installation
Applications (White)

- Compact 2 way full range ceiling loudspeaker for installation applications
- 60 Watts continuous, 240 Watts peak power
- High excursion 5" low frequency driver with high temperature voice coil
- 1" ferrofluid cooled neodymium high frequency driver
- Multiple transformer taps for 70 V and 100 V line systems or 16 Ohm direct input
- Low distortion waveguide provides 110° coverage
- Mount ring and ceiling tile rails included
- UL94 V-0 rated ABS front with plated steel fire can enclosure
- Semi matt white finish fits unobtrusively in any environment
- Powder coated perforated steel mesh grille with dust protection
- Phoenix* connector with steel cover and strain relief accepts fire rated cable
- 3-Year Warranty Program**
- Designed and engineered in England



The 240-Watt TCS52C-T-WH is a high performance 2 way 5" full range ceiling speaker system ideally suited to installed speech and music sound reinforcement applications. Engineered as a 2-way system not requiring any external equalization or filtering, the TCS52C-T-WH can be driven by low impedance or 70 V and 100 V line amplifiers. The TCS52C-T-WH achieves optimal performance when used with a low frequency high pass filter or with TURBOSOUND loudspeaker management systems.



The plated steel fire can enclosure features a powerful, high excursion 5" low frequency driver with a high temperature voice coil, and a 1" ferrofluid cooled neodymium high frequency driver mounted on a 110° low distortion waveguide for optimised dispersion. The TCS52C-T-WH provides fast, accurate transient response and superb top end clarity, ensuring virtually distortion-free operation – even in your most demanding distributed sound applications.

Finished in semi matt white, the TCS52C-T-WH can alternately be painted to meet the specific aesthetics of the venue. The UL94 V-0 rated ABS front with plated steel fire can enclosure comes with a dedicated mount ring and ceiling tile rails for ease of installation. Multiple transformer taps are provided for 70 V and 100 V line systems or 16 Ohm direct input. Connections are provided via industry standard Phoenix* blocks for input and link connections to additional enclosures.

*All third-party trademarks, including, but not limited to Phoenix are trademarks or registered trademarks of their respective owners. Their use neither constitutes a claim of the trademark nor affiliation of the trademark owners with MUSIC Group. Product names are mentioned solely as a reference for TCS52C-T-WH compatibility, effects and/or components.

**Warranty details can be found at www.music-group.com

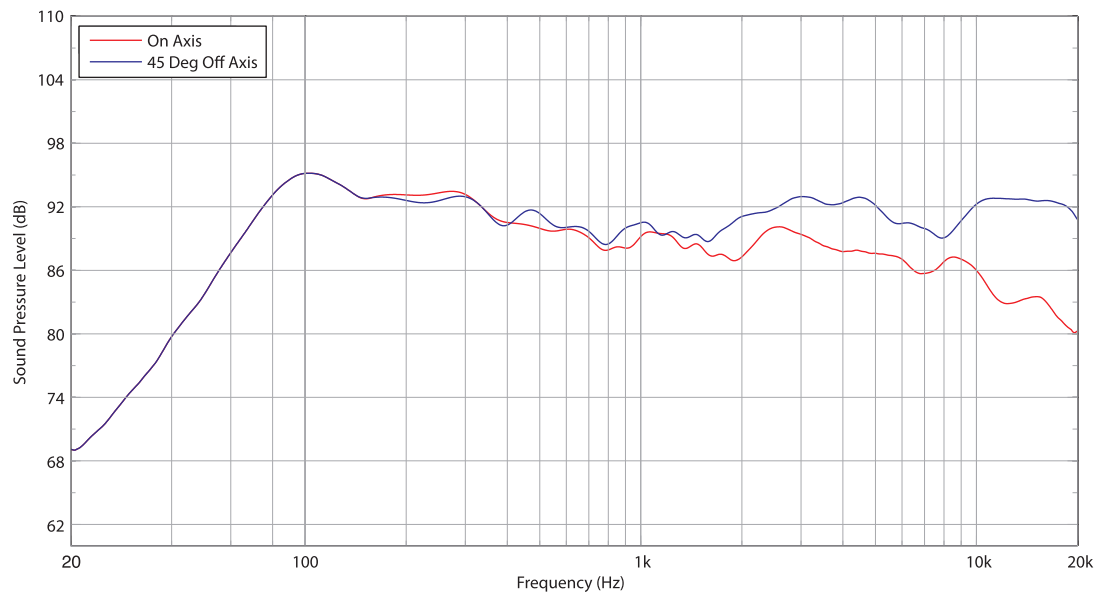
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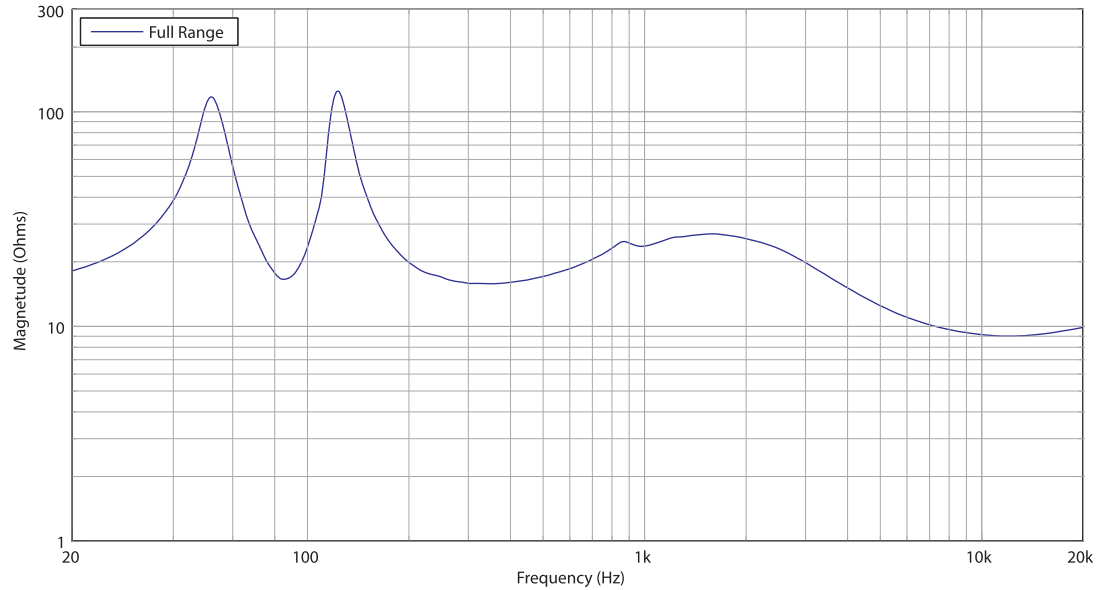
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Frequency Response Sensitivity 1 W / 1 m



Impedance

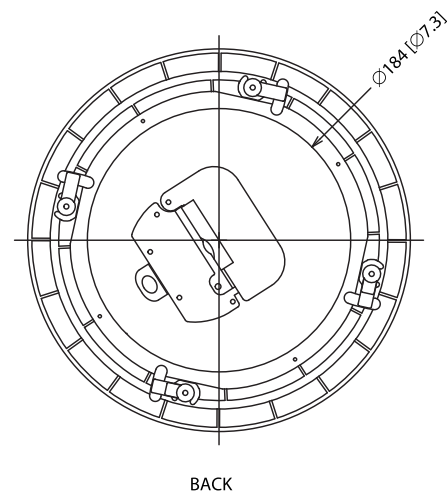
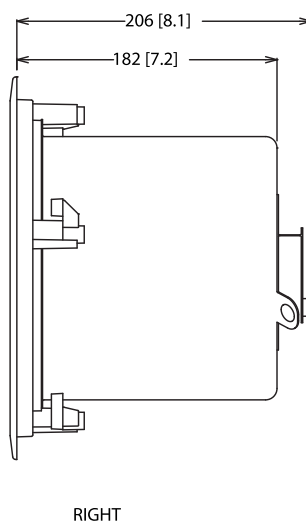
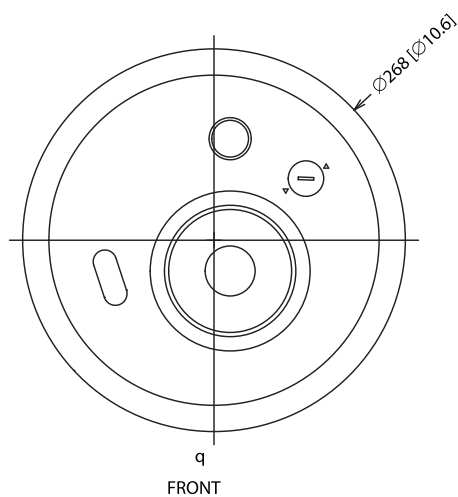
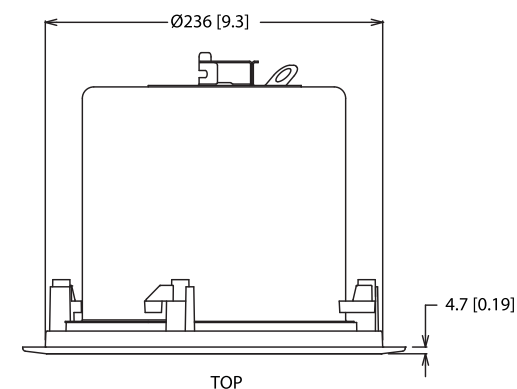


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Dimensions



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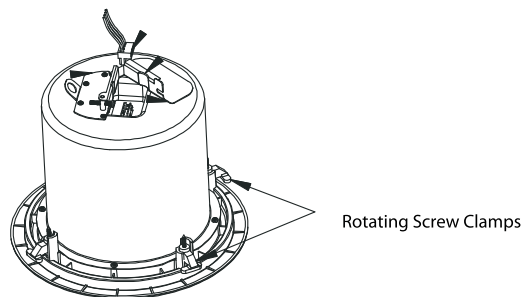
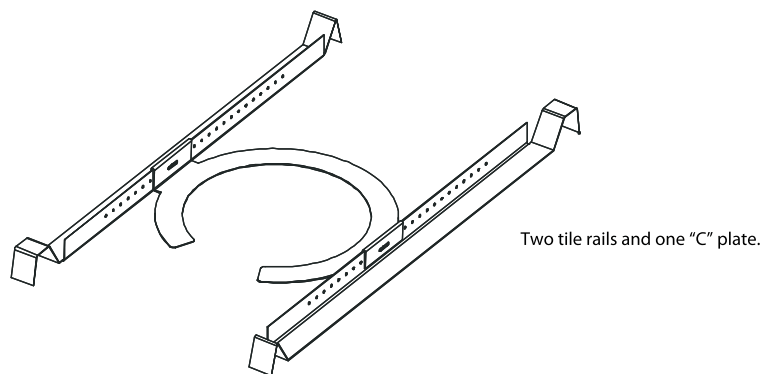
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Mounting and Rigging

The ceiling speaker is supplied with two tile rails and a "C" plate for mounting to ceiling tiles. The tile rail ends fit over the ceiling T grid, and the "C" plate clips over the rails and is screwed in place. The provision of multiple fixing holes in the tile rails allows the speaker to be positioned away from the centre of the tile if desired. Rotating screw clamps on the speaker catch onto the "C" plate and secure the speaker to the tile.

Each speaker has a safety mounting tab to attach to a separate support point.



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Technical Specifications

System

Frequency Response	90 Hz – 20 kHz ± 3 dB 75 Hz – 20 kHz -10 dB
Nominal Dispersion	110° conical @ -6 dB point
Power Handling (IEC)	
Passive	60 W continuous, 240 W peak
100 V line	60, 30, 15 W continuous
70 V line	60, 30, 15, 7.5 W continuous
Sensitivity	92 dB (1 W @ 1 m)
Maximum SPL	
Passive	110 dB continuous, 116 dB peak
100 V line	116, 113, 110 dB peak
70 V line	116, 113, 110, 107 dB peak
Impedance	
Passive	16 Ohms
Crossover Type	Passive
Components	1 x 5" (127 mm) LF driver 1 x 1" (25 mm) HF driver

Enclosure

Connectors	1 x Phoenix
Wiring	Input 1+ / 1-, link 2+ / 2-
Dimensions (diameter, depth)	268 x 188 mm (10.6 x 7.4")
Hole cut-out diameter	240 mm (9.4")
Minimum mount depth	210 mm (8.3")
Net Weight	3.4 kg (7.5 lbs)
Construction	UL-V0 ABS, steel fire can
Finish	White, paintable
Grille	Powder-coated perforated steel
Flying Hardware	Rotating screw clamps

Accessories

C-Ring and tile bridge – included

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Architecture & Engineering Specifications

The speaker shall be of the passive two-way ceiling-installed type, consisting of one 5" (127 mm) LF driver, and one 1" (25 mm) HF driver. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within ± 3 dB from 90 Hz to 20 kHz and within -10 dB from 75 Hz to 20 kHz. Nominal dispersion shall be 110 degrees, @ 6 dB points. Nominal impedance (passive) shall be 16 Ohms. Power handling (passive) shall be 60 Watts continuous, 240 Watts peak. Power handling (100 Volt line): Selectable taps for 60, 30, and 15 Watts continuous. Power handling (70 Volt line): Selectable taps for 60, 30, 15, and 7.5 Watts continuous. Sensitivity, measured on axis, mean averaged over stated bandwidth, shall be 92 dB, 1 Watt @ 1 metre. Maximum SPL (peak), measured at 1 metre with music program at stated amplifier input, shall be: Passive: 116 dB; 100 Volt line: 116, 113, and 110 dB; 70 Volt line: 116, 113, 110, and 107 dB. Dimensions: 268 mm diameter x 188 mm deep (10.6 x 7.4"). Net weight: 3.4 kg (7.5 lbs). The loudspeaker system shall be the TURBOSOUND TCS52C-T-WH. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verifies that the above combined performance / size specifications are equaled or exceeded.

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For service, support or more information contact the TURBOSOUND location nearest you:

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