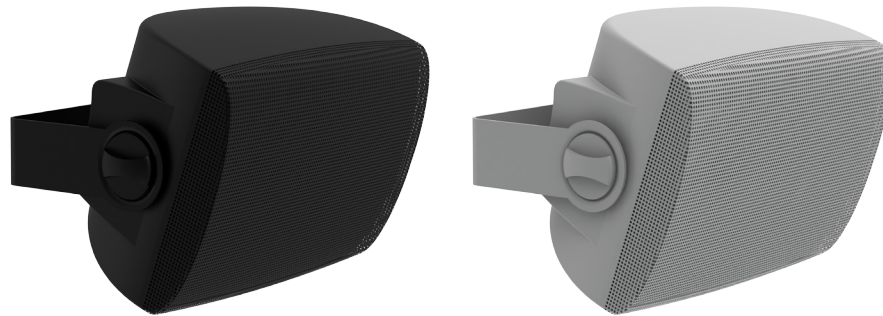


# CS-S6 6.5" Surface-mount Loudspeaker

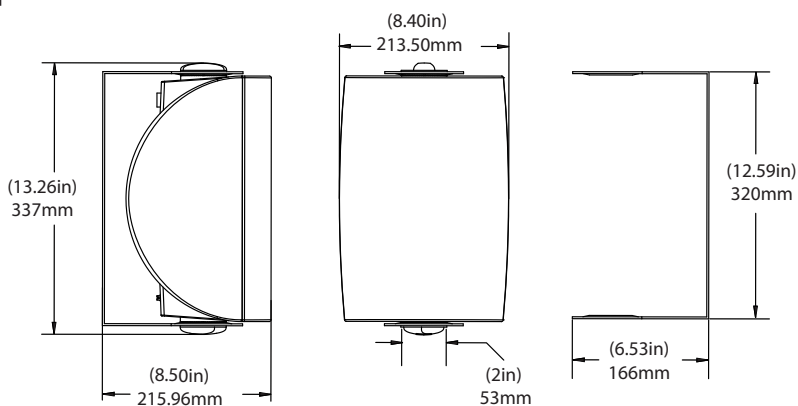


## General Description

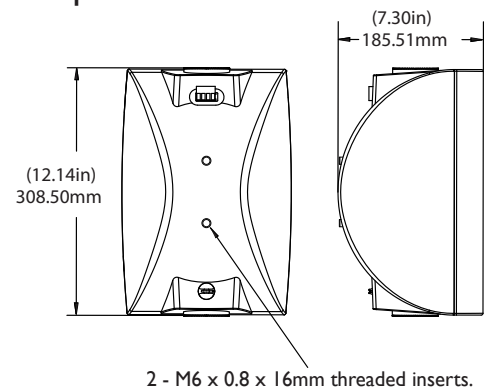
The Cloud CS-S6 is a 6.5 inch coaxial two way surface mount loudspeaker featuring exceptional intelligibility and musical performance. Suitable for internal or outdoor use, the CS-S6 conforms to IP rating IP55 (protection from limited dust ingress, and low pressure water jets from any direction) when fitted with the supplied port plug. Using premium drivers and electronics, the CS-S6 offers high sensitivity, smooth frequency response, and excellent off axis performance. The 6.5 inch woofer incorporates a large magnet structure, a polypropylene cone, and a butyl rubber surround for lasting, low distortion performance. The 1.0 inch (25.4 mm) tweeter is a silk soft dome with a phase plug to smoothly distribute the high frequency energy. The included 32 W transformer provides plenty of power for even high SPL applications. The 16 ohm impedance allows for easy low impedance daisy chaining.

- Front mounted tap switch
- Premium drivers and electronics for exceptional sound quality and intelligibility
- Integrated high power transformer with bypass
- 16 ohm impedance for low impedance daisy chaining
- Designed to mount vertically and horizontally
- Coaxial drivers for optimal off axis performance
- 4-pin Euroblock connectors
- Corrosion resistant Aluminum grille and U-bracket

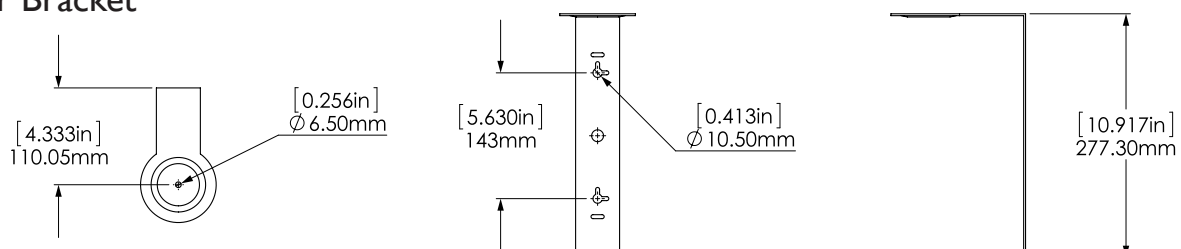
## Speaker Dimensions



## Speaker Enclosure



## Speaker Bracket



## Applications

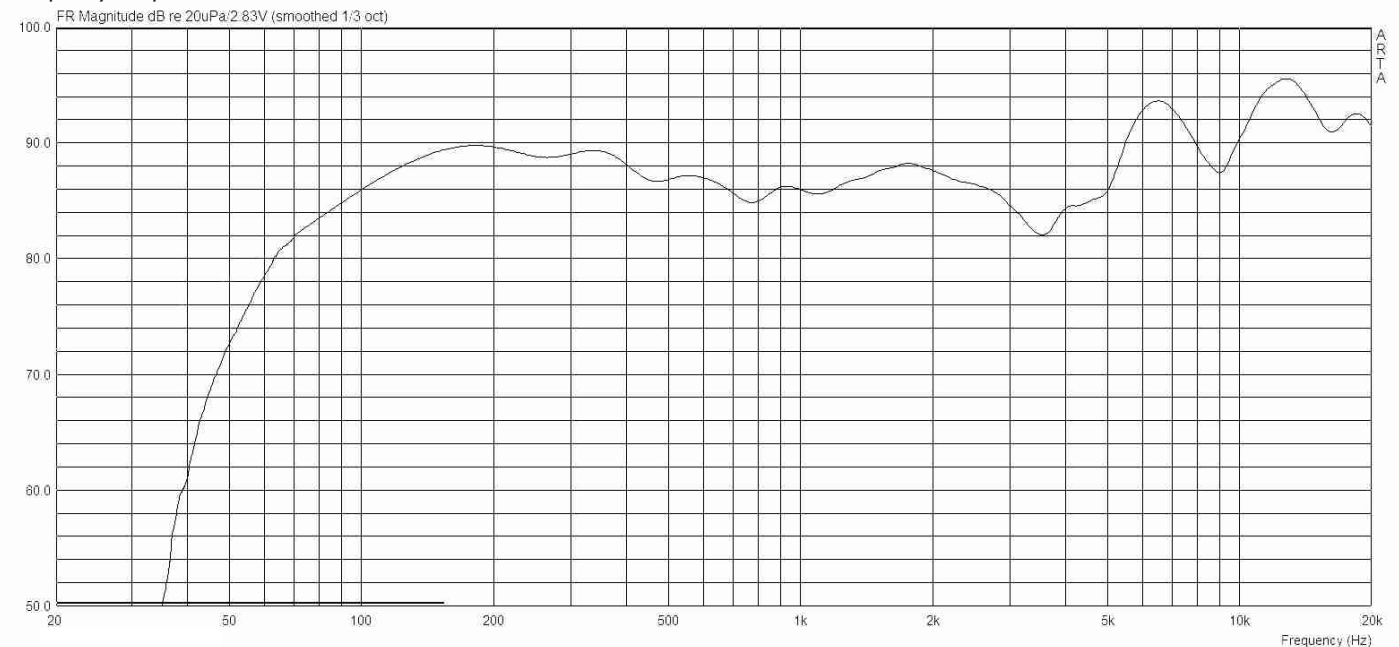
The CS-S6 was developed as a versatile background music and mid-SPL paging speaker. It offers superior acoustic performance, and premium design at an economic price point. It is ideally suited for use in restaurants, retail stores, airports, churches, board rooms, health care facilities, and hotels. The entire CS-S series shares the same acoustic signature, so installations with varying SPL requirements can seamlessly integrate multiple models from the line. The CS-S6 is a premium background and paging speaker that offers high end performance and design at an affordable price point.

## Tap Settings

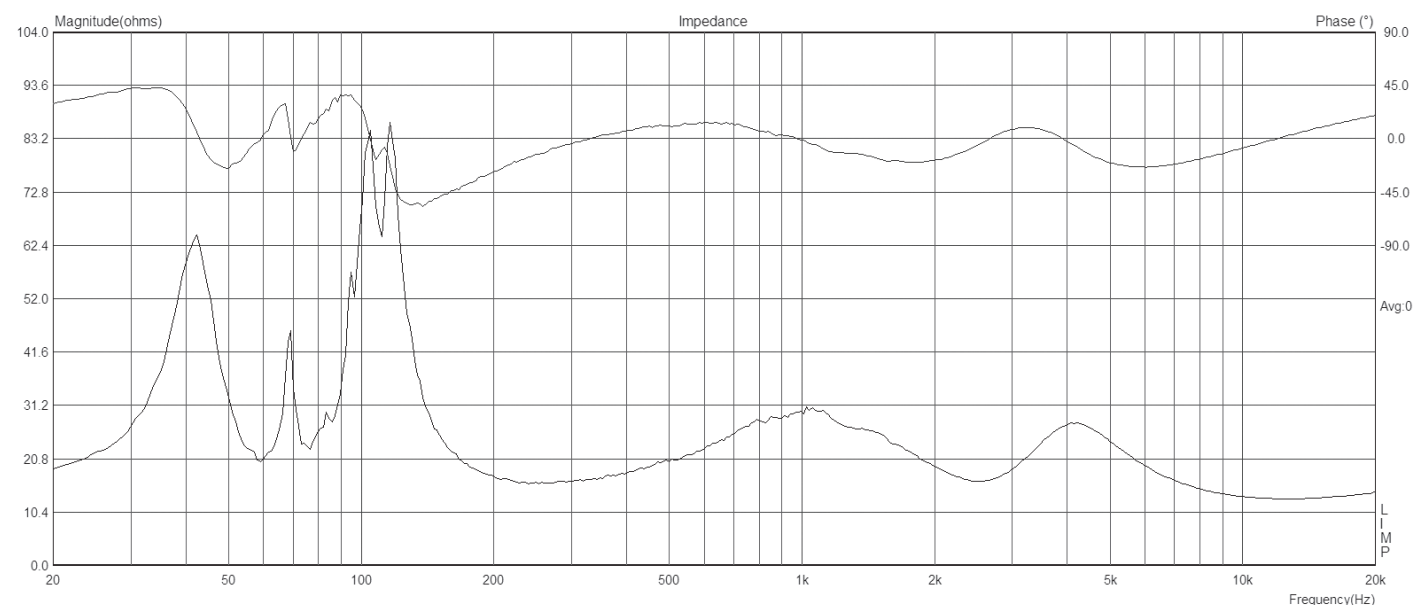
| Tap | Tap Settings |      |      |
|-----|--------------|------|------|
|     | 100 V        | 70 V | 25 V |
| 1   | 16 ohm       |      |      |
| 2   | X            | 32W  | 4W   |
| 3   | 32W          | 16W  | 2W   |
| 4   | 16W          | 8W   | 1W   |
| 5   | 8W           | 4W   | 0.5W |
| 6   | 4W           | 2W   | 0.3W |

## Graphs

### Frequency Response



### Impedance



## Technical Specifications

|                                        |                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------|
| Description                            | 6" 2-way surface-mount, U-bracket                                                        |
| Response (f3)                          | 90 Hz -20 kHz                                                                            |
| Response (f10)                         | 70 Hz -20 kHz                                                                            |
| Impedance                              | 16 ohm                                                                                   |
| Sensitivity (2.83 V/1 m)               | 88 dB                                                                                    |
| Sensitivity (1 W/1 m)                  | 91 dB                                                                                    |
| Power handling                         | 50 W                                                                                     |
| Maximum SPL                            | 108 dB                                                                                   |
| Average coverage angle (2 kHz -10 kHz) | 120°                                                                                     |
| Transformer taps (100 V)               | 32, 16, 8, 4, W                                                                          |
| Transformer taps (70 V)                | 32, 16, 8, 4, 2 W                                                                        |
| Transformer taps (25 V)                | 4, 2, 1, 0.5, 0.3 W                                                                      |
| Tweeter                                | 1 inch polypropylene with rubber surround                                                |
| Woofer                                 | 6.5 inch treated paper with rubber surround                                              |
| Acoustic description                   | Musical, with high intelligibility. Prioritize perceived bass response over sensitivity. |
| Input                                  | Euroblock                                                                                |
| Included accessories                   | U-bracket, male Euroblock, rubber port plug                                              |
| Optional accessories                   | n/a                                                                                      |
| Available colours                      | Black RAL9011, White RAL9003                                                             |
| Packaging                              | 1 per box                                                                                |
| Net weight/Gross weight                | 3.6 kg (7.9 lb) / 4.4 kg (9.7 lb)                                                        |
| Bracket mounting hole spacing          | 206.5 mm / 8.13 in                                                                       |
| Conformance                            | UL1480 / 2043 planned, RoHS, CE approved, IP55                                           |

## Architect's and Engineer's Specification

The loudspeaker shall consist of one ABS enclosure containing two transducers, a frequency dividing network, a transformer, and acoustic damping material. It shall be rated as an IP55 compliant loudspeaker when fitted with a supplied port plug. It shall incorporate an integrated mounting system including U-bracket. It shall include one removable aluminium grille affixed to the baffle. The grille shall include a removable logo tab.

The loudspeaker shall include one 101.6 mm (6.0 inch) low-frequency transducer in a ported enclosure. The low frequency voice coil diameter shall be 25.4 mm (1.0 inch). The low-frequency transducer shall have a polypropylene cone material with a rubber surround. The high-frequency transducer shall incorporate a silk dome.

The loudspeaker shall include a 20 watt transformer with taps at 32 W, 16 W, 8 W and 2 W. Said taps shall be selected via an included tap switch located on the front baffle, under the removable grille. The transformer shall accept 25 V, 70 V, or 100 V. The tap switch shall also include a transformer bypass position, allowing for direction connection to the 16 ohm low impedance circuit.

Nominal performance specifications shall be as follows: The loudspeaker shall have a usable frequency range extending from 70 Hz - 20 kHz (-10 dB). The nominal impedance shall be 16 ohms, and the maximum continuous RMS power handling shall be at least 32 W according to the EIA-426-B standard. Sensitivity measured at 2.83 V / 1 m shall be 88 dB. The maximum output at 1 m shall be 91 dB.

Installation for the speaker shall be with U-bracket and shall attach to the wall. The external wiring shall be via 4-position 5.08mm Euroblock connector; accepting up to 10 gauge wire. The maximum overall height shall be no more than 337 mm (13.26 inches) and the maximum depth shall be no more than 215.96 mm (8.5 inches). The unit is factory preset to the 32-watt setting in the 100 volt operating mode, with a tap switch located on the front baffle.

The system shall be the Cloud CS-S6 for both low- and high- impedance applications.