For Installations Requiring:
» Compact, full-range loudspeaker
» Even, omnidirectional coverage
» Clear voice announcements
» Seamless background music
» Fast distributed system install

**Specifications: Model 110B Loudspeaker**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Type</td>
<td>6-1/2&quot; (165 mm) full range</td>
</tr>
<tr>
<td>Impedance (nominal)</td>
<td>4 ohms</td>
</tr>
<tr>
<td>Sensitivity dB @ 2.83 V/1 m</td>
<td>96 dB</td>
</tr>
<tr>
<td>Sensitivity dB @ 1 W/1 m²</td>
<td>93 dB</td>
</tr>
<tr>
<td>Frequency Response (-3 dB)</td>
<td>220 Hz - 18 kHz</td>
</tr>
<tr>
<td>Frequency Response (-10 dB)</td>
<td>100 Hz - 20 kHz</td>
</tr>
<tr>
<td>Max. Continuous Peak Power</td>
<td>70 W</td>
</tr>
<tr>
<td>Max. Continuous Power RMS</td>
<td>35 W</td>
</tr>
<tr>
<td>Max. Power SPL @ 1 m³</td>
<td>108.5 dB</td>
</tr>
<tr>
<td>Coverage Angle (±6 dB @ 2 kHz)</td>
<td>165˚</td>
</tr>
<tr>
<td>Coverage Angle (±6 dB @ 10 kHz)</td>
<td>155˚</td>
</tr>
<tr>
<td>Coverage Angle (Avg. 500 Hz - 10 kHz)</td>
<td>170˚</td>
</tr>
<tr>
<td>Transformer</td>
<td>Optional 30 W</td>
</tr>
<tr>
<td>Transducer – Full Range</td>
<td>6-1/2&quot; (165 mm) treated pulp fiber</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>1” (25.4 mm)</td>
</tr>
<tr>
<td>Enclosure &amp; Reflector Material</td>
<td>Structural foam polystyrene with rust-resistant hardware</td>
</tr>
<tr>
<td>Inputs</td>
<td>Hard wire leads</td>
</tr>
<tr>
<td>Colors</td>
<td>White (paintable); custom colors available</td>
</tr>
<tr>
<td>Height</td>
<td>11-7/8&quot; (302 mm)</td>
</tr>
<tr>
<td>Diameter</td>
<td>Sphere: 10&quot; (254 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>8 lbs. (3.6 kg)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>11 lbs. (5 kg)</td>
</tr>
<tr>
<td>Packaging</td>
<td>One per box</td>
</tr>
<tr>
<td>Optional Accessories</td>
<td>30-Watt Line Matching Transformer (TX30), Hanging Kit (HK), 24&quot; Hanging Kit Extension (HNEXT), Mounting Bracket (MBS), Beam Clip (BC), Drop Ceiling Bracket (DCB), Small Screen (SS), Small Screen with Weather Filter (SWFS), Dust Filter (110SF)</td>
</tr>
</tbody>
</table>

**Regulatory – CE**
- Approved

**RoHS**
- Approved

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**Key Features**
» Hemispherical coverage pattern
» Accurate, full-range voice announcements
» Light weight enables many varied mounting possibilities
» Fully assembled and ready to mount
» Hanging or surface mount
» Standard white (paintable) and custom colors available
» Available with onboard amplification (Model 110B Power2)

**Description**

The Model 110B was designed to provide clear voice announcements, seamless background music and even, omnidirectional coverage. It is a compact, unobtrusive speaker that is just 10” in diameter and offers fast distributed system installation. Broad dispersion of all frequencies is achieved with a 6-1/2" full-range driver and proprietary dispersion technologies. The 110B offers a hemispherical coverage pattern and can evenly cover a large area with fewer speakers. It comes fully assembled and ready to mount using our hanging kit or mounting bracket.

Onboard amplification is offered with Model 110B Power2, making a separate amplifier unnecessary in applications where only a single wide-dispersion speaker is required for coverage.

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`1` Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance
`2` 1 W 1 m sensitivity determined using nominal impedance
`3` Frequency response measured in half or full space as dictated by speaker mounting configuration
`4` Max. continuous peak power is 3 dB above max. continuous power
`5` Continuous power rating, EIA-426-B test
`6` Max. output based on max. continuous power
110B
Compact Omnidirectional Loudspeaker for Seamless Background Music and Clear Voice Announcements

**GRAPHS AND PLOTS**

**Hemispherical Frequency Response**

**Impedance/Phase**

**Vertical Beamwidth (±6 dB)**

**Directivity Index (DI)**

**MODEL 110B POWER2 WITH ONBOARD AMPLIFICATION**

The Power2 adds onboard amplification to the compact Model 110B broad coverage speaker, making a separate amplifier unnecessary. Designed specifically for applications where only a single wide-dispersion speaker is required for coverage, the Power2 provides an easier and less expensive installation in such areas as small warehouses, open-ceiling classrooms or lecture halls with video projectors; board rooms; and small retail stores.

The amplifier has been designed to mount to the rear of the reflector. Two electronically balanced inputs with level controls are provided. The Power2 amplifier also includes a master output level control.

Visit www.soundsphere.com for system design guides, EASE™ data and detailed product information.
POLAR PLOTS (±6 dB)

MECHANICAL DRAWINGS

ACCESSORIES

Hanging Kit (HK)

Mounting Bracket (MBS)
For mounting speaker on a flat surface.

Beam Clip (BC)
Locates a 1/4" hole on a 1/8" to 1/4" beam flange using just a hammer.

Drop Ceiling Bracket (DCB)
Two twist clips and MBS are supplied. Clips twist onto t-bar stringers, and mounting bracket attaches with wing nuts.

Hanging Kit Extension (HKEXT)
24” extension for use with HK.

Line Matching Transformer (TX30)
The Model TX30 is a 30-Watt line matching transformer for the Model 110B with taps for 25-, 50-, 70- and 100-Volt constant voltage systems. The TX30 is designed for factory or field mounting in the 110B reflector. Connection to system wiring is via 10" color coded flying leads. Available taps – 25 Volt: 30, 15, 7.5, 3.8, 1.9, 1.0, 0.5 Watts; 50 Volt: 30, 15, 7.5, 3.8, 1.9 Watts; 70 Volt: 30, 15, 7.5, 3.8 Watts; 100 Volt: 30, 15, 7.5 Watts.

Small Screen (SS)
Protects speaker driver from foreign objects.

Small Screen with Weather Filter (SWFS)
Protection from foreign objects, plus a water protection barrier.
APPLICATIONS
Providing full-range music and voice in a compact, unobtrusive enclosure, the 110B loudspeaker is ideal for applications such as supermarkets, retail stores, factories, warehouses, courtrooms, classrooms/other educational facilities, stadium/arena concourses, gift shops, rest rooms, airports/transportation centers, office building reception areas, restaurants, casinos, shopping center common areas/food courts and anywhere background music and articulate voice announcements are required.

PATENTED SOUNDSPHERE TECHNOLOGIES
Soundsphere and MSE Audio Group constantly develop new technologies that enhance audio product performance. Soundsphere innovations are protected by multiple patents that explicitly cover Soundsphere’s dispersion and enclosure technologies. MSE Audio Group actively defends its patents in order to protect Soundsphere resellers and end users.

TECHNICAL DATA AND SPECIFICATION TOOLS
Technical Data
Soundsphere strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from Soundsphere or at www.soundsphere.com.

Technical data and downloads include:
EASE™ Data — 3-D polar plots
EASE™ Address — 2-D modeling for distributed systems
Technical Data Sheets — Technical information and architectural specs for system engineers

Soundsphere® loudspeakers are warranted against failure or malfunction due to defects in materials or workmanship for a period of five years from date of original purchase. Speaker electronics are warranted for three years. Defective units will be repaired or replaced at our option if delivered prepaid to our factory. Repaired or replaced units will be returned at our expense. Warranty does not cover appearance or damage caused by abuse, misuse, neglect, accident, or exceeding maximum rated power. Warranty does not cover labor costs involved in removing and/or reinstalling the defective unit, nor any liability due to accidents caused by improper installation. Warranty is extended to original purchaser and is not transferable.

ARCHITECTURAL SPECIFICATIONS
The loudspeaker driver shall consist of one 6.5-inch (165 mm) full-range driver made of treated pulp fiber.

Performance specifications of a typical production unit shall be as follows:
Useable frequency response shall extend from 100 Hz to 20 kHz (-10 dB). The vertical polar coverage shall be 170° ±6 dB. Measured sensitivity (1 Watt/1 meter) shall be at least 93 dB. The speaker shall have a rated impedance of 8 ohms and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 35 Watts continuous RMS and 70 Watts peak. The speaker shall be available at 4 ohms. The speaker shall have a rated impedance of 8 ohms and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 35 Watts continuous RMS and 70 Watts peak. The speaker shall be available at 4 ohms. The speaker shall have a rated impedance of 8 ohms and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 35 Watts continuous RMS and 70 Watts peak. The speaker shall be available at 4 ohms.

Independent Data Acquisition and Verification
All data for Soundsphere loudspeakers is independently collected from and verified by an industry-recognized independent testing facility. All data is collected and analysed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x, GLL and CLF.

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All specifications are subject to change without notice.