

LT 9702[®] WR

high-output mid/high loudspeaker



Key Features

- **90° x 70°** coverage for short-throw applications in auditoriums, worship facilities, performing arts centers, stadiums and arenas
- **Mid/high-frequency** loudspeaker designed for use in arrays with separate LF augmentation (Bose[®] MB12 or MB24 bass arrays) or voice-only applications
- **Bose V2 midrange manifold** sums output of 2 x 4.5" (114 mm) extended-range cone drivers for lower breakup distortion and improved

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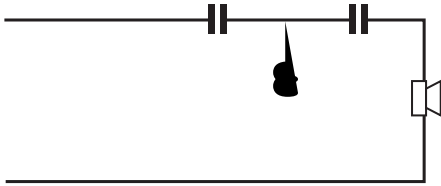
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Wiring Diagram

Passive



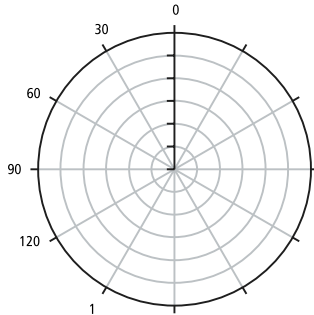
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Horizontal Plots



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Architects' and Engineers' Specifications

The 2-way, mid/high-frequency loudspeaker shall contain a 7" (178 mm) diaphragm compression driver and two (2) midrange manifolds, each summing two (2) 4.5" (114 mm) cone drivers in a heat-sink/acoustic summation assembly. The transducers will exit into a large-format waveguide with 90° x 70° nominal beamwidth and effective pattern control to approximately 250 Hz (horizontal) and 500 Hz (vertical). An internal filter network with crossover of 1.5 kHz shall allow passive or bi-amp operation.

On-axis system frequency response shall be 220 Hz to 15 kHz (±3 dB) with recommended crossover and active equalization. The system sensitivity shall be 105 dB SPL with 1 watt input and be capable of producing peak output of 120 dB SPL on axis at 1 meter. In passive mode, the system shall handle 140 watts of amplifier power (IEC 28-5 pink noise, 3 dB crest factor, for 100 hours) and have a nominal input impedance of 8 ohms. In bi-amp mode, the mid-frequency section shall handle 140 watts of amplifier power and have a nominal input impedance of 8 ohms, while the high-frequency section shall handle 75 watts of amplifier power and have a nominal input impedance of 8 ohms.

The trapezoidal enclosure shall be constructed of void-free, exterior-grade Baltic birch plywood with extensive internal bracing. The enclosure interior shall be treated with wood sealer and the exterior finished with a two-part spray polyurethane coating (Chemthane 7000 or equivalent) to resist weather elements and scuffing. The enclosure shall be covered by a 16-gauge perforated stainless steel grille with powder-coated finish and backed with an open-cell foam. The loudspeaker shall survive water incursion consistent with the IEC 529 IP55 rating. The enclosure shall have sixteen (16) stainless steel threaded inserts (4 each top, bottom, sides) that accept standard S.E. 1/8"-18 rigging hardware. Inputs shall be two (2) L4 Neutrik® Speakon® connectors. Loudspeaker dimensions shall be 44.5" x 22.5" x 17.8" (879 mm x 572 mm x 451 mm). Net weight shall be 90 lb (40.8 kg).

The 2-way, mid/high-frequency loudspeaker shall be the Bose® LT 9702® WR loudspeaker.