

LBD3902-L Cabinet loudspeaker 6W, white



- ▶ Good speech intelligibility and background music reproduction
- ▶ MDF construction

The LBD3902-L is a 6 W, general-purpose, cost effective loudspeaker for indoor use. Keyholes at the rear are provided for quick and easy wall mounting. The angled front baffle results in a better sound in the listening area.

Functions

The robust, solid MDF (Medium Density Fiber board) enclosures are covered with a durable, easy-to-clean white vinyl. The ABS fronts are covered with fine woven cloth in matching color.

The loudspeaker has been tested for operation at rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards.

Installation/configuration notes

Three keyholes in the rear panel provide easy and quick wall mounting. A convenient, easy-to-use, 4-pole push-in terminal block is on the rear panel for on-site wiring. This terminal block has provision for power tapping on the 100-volt, matching transformer in the cabinet. It allows selection of nominal full-power, half-power or quarter power radiation (in 3 dB steps).

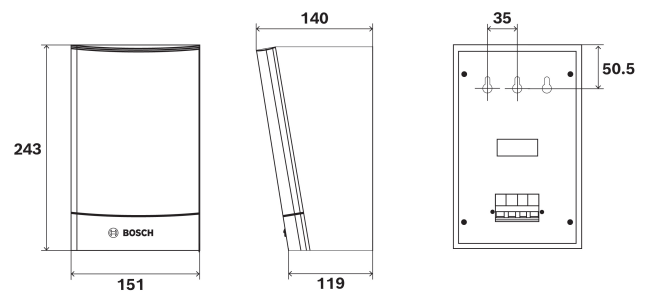


Fig. 1: Dimensions in mm

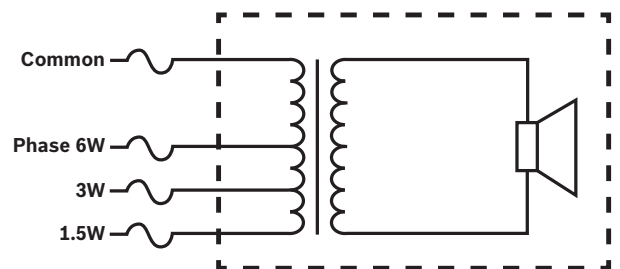


Fig. 2: Circuit diagram

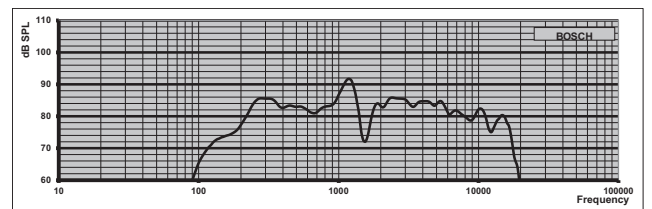


Fig. 3: Frequency response LBD3902-L

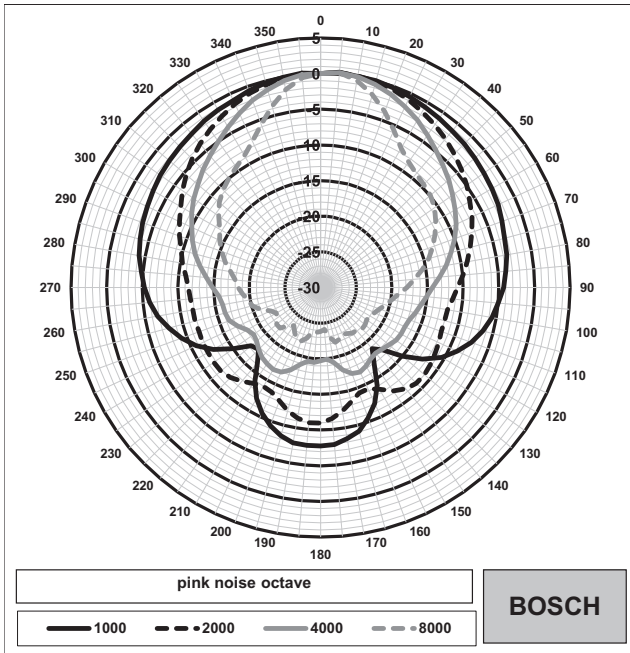


Fig. 4: Normalized polar plot LBD3902-L

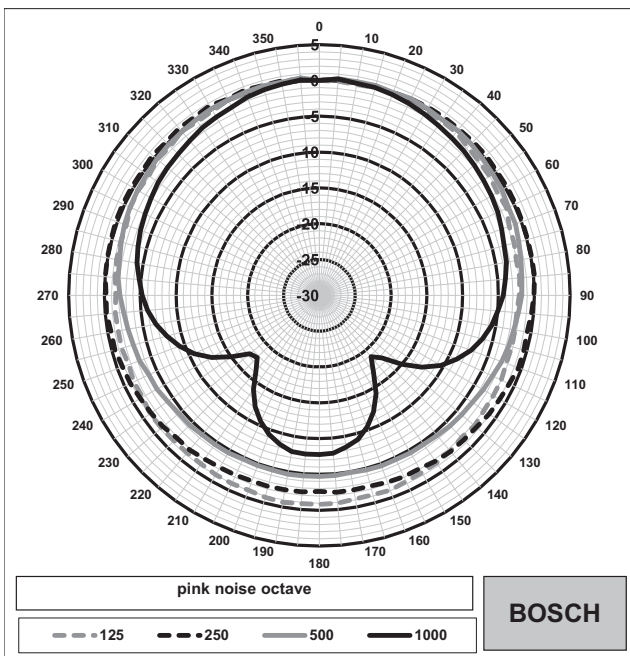


Fig. 5: Normalized polar plot LBD3902-L

Octave band sensitivity*

	Octave SPL 1W/1m	Total octave SPL 1W/1m	Total octave SPL Pmax/1m
125 Hz	71.5	-	-
250 Hz	83.9	-	-
500 Hz	82.8	-	-
1000 Hz	87.4	-	-

2000 Hz	84.0	-	-
4000 Hz	85.1	-	-
8000 Hz	82.2	-	-
A-weighted	-	81.9	89.5
Lin-weighted	-	82.5	90.1

(1/1)th octave band sensitivity

Octave band opening angles

	Horizontal	Vertical	
125 Hz	360	360	
250 Hz	360	360	
500 Hz	360	360	
1000 Hz	198	198	
2000 Hz	114	114	
4000 Hz	88	88	
8000 Hz	47	47	

Acoustical performance specified per octave LBD3902-L.* (all measurements are done with a pink noise signal; the values are in dB SPL).

Parts included

Quantity	Component
1	LBD3902-L Cabinet loudspeaker 6W, white

Technical specifications

Electrical

Rated power	6W (6 W / 3 W / 1.5 W)
Sound pressure level at 6 W / 1 W (1 kHz, 1 m)	89.5 dB / 81.9 dB (SPL)
Effective frequency range	150 Hz to 15 kHz
Opening angle horizontal at 1kHz / 4kHz (-6dB)	198° / 88°
Opening angle vertical at 1kHz / 4kHz (-6dB)	198° / 88°
Rated impedance	1667 ohm
Rated input voltage	100 V

Connector	4-pole push-in terminal
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Mechanical

Dimensions (H x W x D)	243 mm x 151 mm x 140 mm / 119 mm
Weight	1.3 kg
Color	White

Environmental

Operating temperature	-5 °C to +55 °C
Storage temperature	-40 °C to +70 °C

Ordering information

LBD3902-L Cabinet loudspeaker 6W, white

Cabinet loudspeaker 6 W, MDF enclosure, finished in white, with keyholes for wall mounting.

Order number **LBD3902-L | F.01U.294.069**

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