

LCZ-UM06-IN Compact ceiling speaker, 6W, metal



The LCZ-UM06-IN is a general purpose, 6 W, compact ceiling loudspeaker, suitable for speech as well as music reproduction, preferred in places where there is a space constraint.

System overview

The ceiling loudspeaker is compact in design, integrated with a metal grille and baffle, finished with an attractive signal-white color.

The loudspeaker has good sensitivity and a wide frequency range, which makes it suitable for speech and music reproduction. It has an in-built line matching transformer, which supports a 100 V line output from the amplifier. The transformer has 3-tappings - full power, half power and quarter power, which helps the user to select the desired output levels based on their customized requirements.

The loudspeaker is equipped with spring mounting mechanism, which helps in quick installation of the speaker on the ceiling.

Installation/configuration notes

The ceiling loudspeaker unit has a diameter of 105 mm. A cutout of 84 mm diameter needs to be carved out in the ceiling for installation.

The loudspeaker can be installed by pulling up the mounting clamps and inserting the loudspeaker into the cutout in the ceiling.

- ▶ Available in 6 W power output
- ▶ Excellent for speech and music reproduction
- ▶ Compact design, suitable for small places
- ▶ Available in attractive signal-white color
- ▶ Quick installation through integrated spring mount mechanism

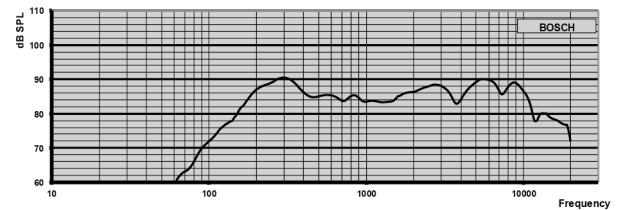


Fig. 1: Frequency response 1/3rd octave smoothing

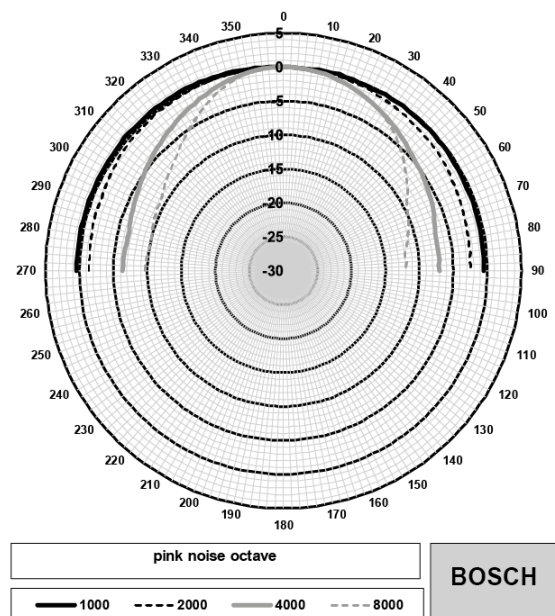


Fig. 2: Polar diagram of LCZ-UM06-IN (high frequency part), normalized at 0-degrees axis.

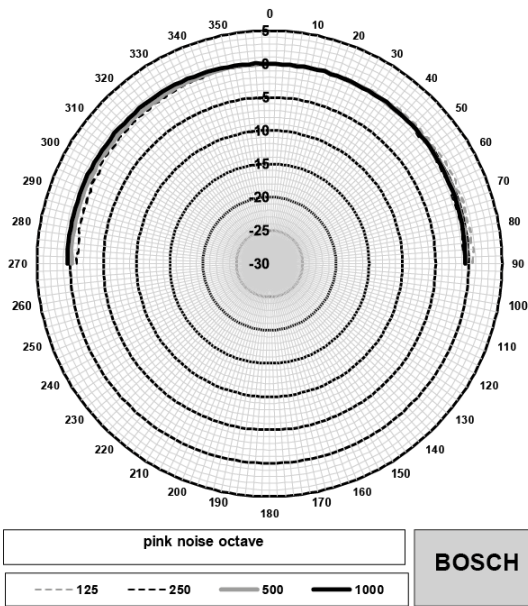


Fig. 3: Polar diagram of LCZ-UM06-IN (low frequency part), normalized at 0-degrees axis.

Octave band sensitivity LCZ-UM06-IN

	Octave SPL 1 W/1 m	Total octave SPL 1 W/1 m	Total octave SPL Pmax/1 m
125 Hz	77.6	-	-
250 Hz	88.8	-	-
500 Hz	85.8	-	-
1000 Hz	84.4	-	-
2000 Hz	86.7	-	-
4000 Hz	87.3	-	-
8000 Hz	88.1	-	-
A-weighted	-	83.7	85.0
Lin-weighted	-	90.9	92.4

Octave band opening angles LCZ-UM06-IN

	Horizontal	Vertical	
125 Hz	180	180	
250 Hz	180	180	
500 Hz	180	180	
1000 Hz	180	180	

2000 Hz	180	180	
4000 Hz	132	132	
8000 Hz	86	86	

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

Parts included

Quantity	Component
1	Compact ceiling loudspeaker unit
1	Installation manual

Technical specifications

Electrical

Rated power	6 W
Input Voltage	100 V
SPL (at 6 W/1 W, 1 kHz)	92/85 dB
Effective frequency range (-10 dB)	100 Hz to 20 kHz
Opening angle at 1kHz/4kHz (-6 dB)	180°/130°
Rated Voltage	100 V
Rated impedance	1667 Ohm
Connector	4-pole screw connector

Mechanical

Dimensions (DxH)	105 mm x 90 mm
Cutout diameter	84 mm
Weight	580 g
Color	Signal-white (RAL 9003)

Environmental

Operating temperature	-5 °C to +55 °C
Storage Temperature	-40 °C to +70 °C
Relative humidity	95%

Ordering information

LCZ-UM06-IN Compact ceiling speaker, 6W, metal
 Compact ceiling speaker, 6W, metal
 Order number **LCZ-UM06-IN | F.01U.363.540**

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