

LC3-UM06-IN Ceiling speaker, 6W, metal



The LC3-UM06-IN is a general purpose 6 W ceiling loudspeaker, suitable for speech as well as music reproduction, it has a light weight ABS body with a metallic grille, finished with an attractive signal-white color.

System overview

The ceiling speaker unit is integrated with a metallic grille and an ABS baffle, resulting in a light weight construction and is finished in 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 170 mm. A cutout of 139 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
- ▶ Lightweight construction
- ▶ Excellent for speech and music reproduction
- ▶ Available in attractive signal-white color

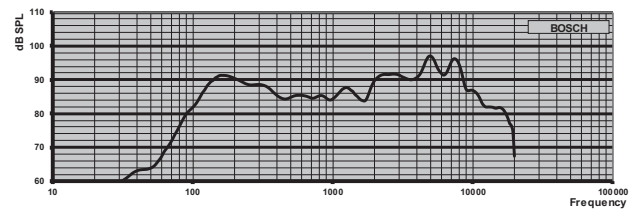


Fig. 1: Frequency response 1/3rd octave smoothing

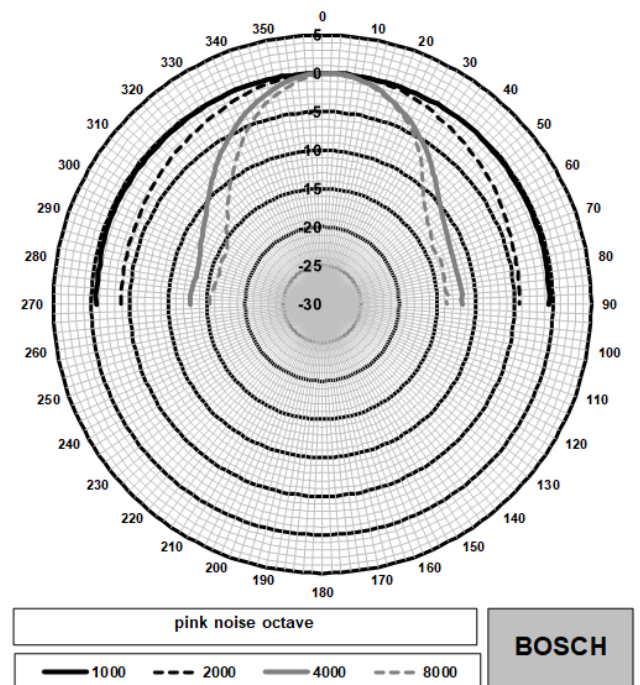


Fig. 2: Polar diagram of LC3-UM06-IN (high frequency part), normalized at 0-degree axis.

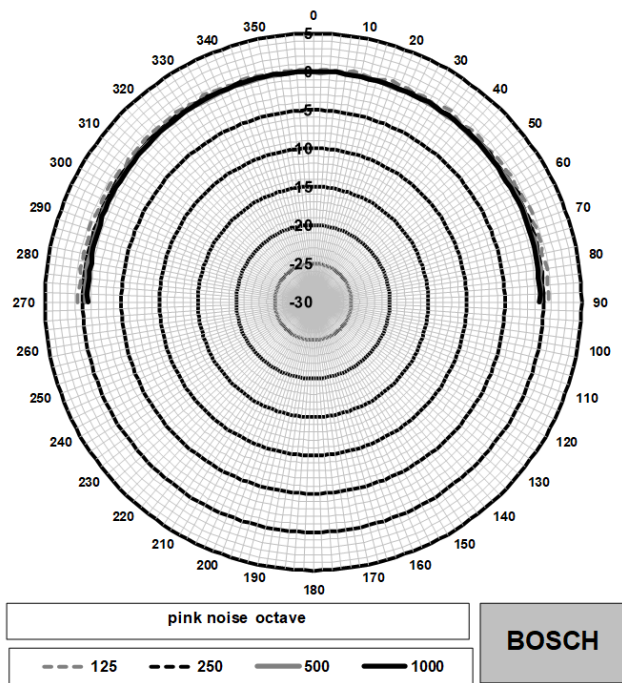


Fig. 3: Polar diagram of LC3-UM06-IN (low frequency part), normalized at 0-degrees axis.

Octave band sensitivity LC3-UM06-IN

	Octave SPL 1 W/1 m	Total octave SPL 1 W/1 m	Total octave SPL Pmax/1 m
125 Hz	88.2	-	-
250 Hz	88.2	-	-
500 Hz	85.0	-	-
1000 Hz	85.3	-	-
2000 Hz	88.5	-	-
4000 Hz	91.5	-	-
8000 Hz	90.0	-	-
A-weighted	-	87.8	88.6
Lin-weighted	-	94.9	95.8

Octave band opening angles LC3-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	67	67
8000 Hz	56	56

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	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)	75 Hz to 18 kHz
Opening angle at 1 kHz/4 kHz (-6 dB)	180°/65°
Rated impedance	1667 Ohm
Connector	4-pole screw connector

Mechanical

Dimensions (DxH)	170 mm x 70 mm
Cutout dimensions	139 mm
Weight	540 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

LC3-UM06-IN Ceiling speaker, 6W, metal

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Order number **LC3-UM06-IN | F.01U.374.692**

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