

- EXCELLENT SPEECH AND MUSIC REPRODUCTION •
- BI-DIRECTIONAL AND CABINET MODELS •
- FINISHED IN OFF-WHITE OR GREY •
- MDF CONSTRUCTION •
- STURDY BRACKET MOUNTING •
- SIMPLE 'QUICK-PLUG' POWER SETTING •
- CABINET TYPES AVAILABLE WITH VOLUME CONTROL •
- COMPLY WITH INTERNATIONAL INSTALLATION AND SAFETY REGULATIONS •

Philips loudspeakers offer a combination of quality, performance and innovation in public address. They are the result of over half a century's experience in professional audio, and meet virtually all sound reinforcement system requirements.

Cabinet loudspeakers

The LBC 3041/x2 and LBC 3045/x2 are 6 W cabinet loudspeakers for speech and music reproduction in general purpose applications. The robust, solid MDF (Medium Density Fiber board) enclosures are covered with a durable, easy-to-clean vinyl in a choice of grey or off-white. The fronts are covered with fine woven cloth in dark grey (grey cabinets) or light grey (off-white cabinets), and feature attractive chamfered edges.

Built-in volume control

The LBC 3041/x2 cabinet loudspeakers are also available with a built-in volume controls for local level adjustment.

Bi-directional cabinets

For mounting on walls or ceilings in long corridors, for example, the LBC 3045/x2 wedge-shaped bi-directional 6 W cabinet loudspeakers are available.

Mounting

All cabinets are supplied with a steel mounting bracket that fits into a slot at the top of the cabinet back. A slot is also provided at the bottom of the cabinet for a second bracket (not supplied). A drilling template is supplied.

Simple power setting

Connections are made using a 4-pole 'quick-plug' connector (supplied) inserted in a recessed socket in the cabinet back. This connector has provision for power tapping on the 100V matching transformer in the cabinet. It allows selection of nominal full-power, half-power or quarter-power radiation (i.e. in 3 dB steps).

Quality assurance

All Philips loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Philips has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to



LBC 3041/02

LBC 3045/52

LBC 3041/x2, LBC 3045/x2

CABINET LOUDSPEAKERS

demonstrate that they can withstand two times their rated power for short durations. This ensures extra reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and much less chance of failure or performance deterioration.

Safety aspects

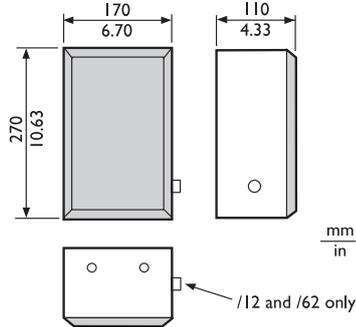
In common with all Philips products, care is taken to meet high safety standards. These cabinet loudspeakers comply with the relevant safety and installation regulations of EN 60065.

SPECIFICATIONS

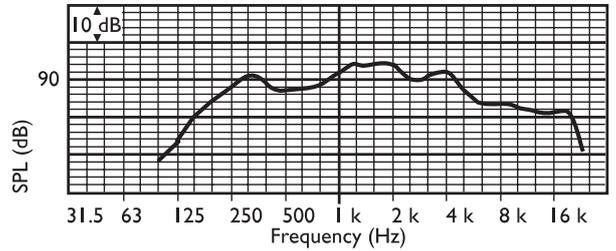
LBC 3041/x2, LBC 3045/x2

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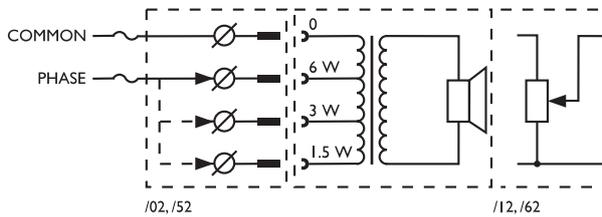
LBC 3041/02, /12, /52 and /62



Dimensions (in mm/in)



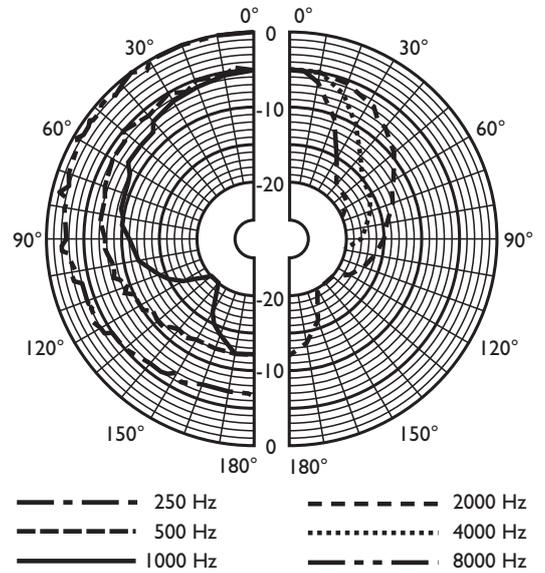
Frequency response



Circuit diagram

LBC 3041/x2

Octave band (Hz)	125	250	500	1 k	2 k	4 k	8 k
SPL 1.1	78	88	86	90	92	90	84
SPL max.	86	96	94	98	100	98	92
Q factor	2	1.8	1.9	3.3	5.8	13	23
Efficiency	0.04	0.45	0.27	0.38	0.35	0.1	0.01
Hor. angle	360	280	260	180	110	60	50
Vert. angle	360	280	260	180	110	60	50



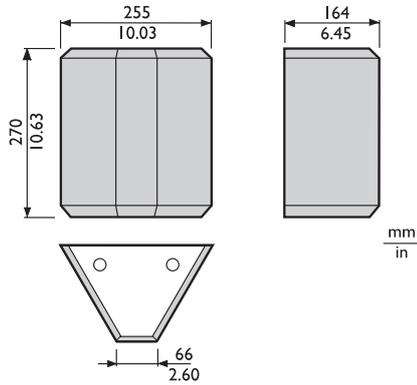
Polar diagram (measured with pink noise)

SPECIFICATIONS

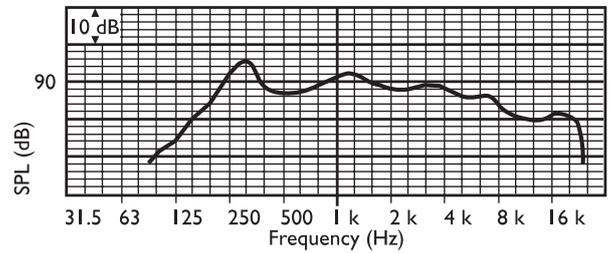
LBC 3041/x2, LBC 3045/x2

CABINET LOUDSPEAKERS

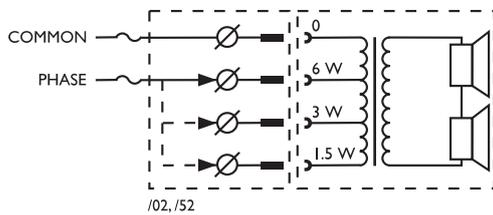
LBC 3045/02 and /52



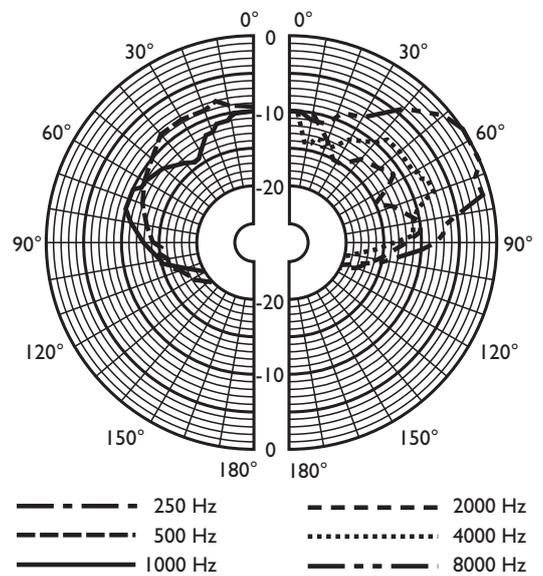
Dimensions (in mm/in)



Frequency response



Circuit diagram



Polar diagram (measured with pink noise)

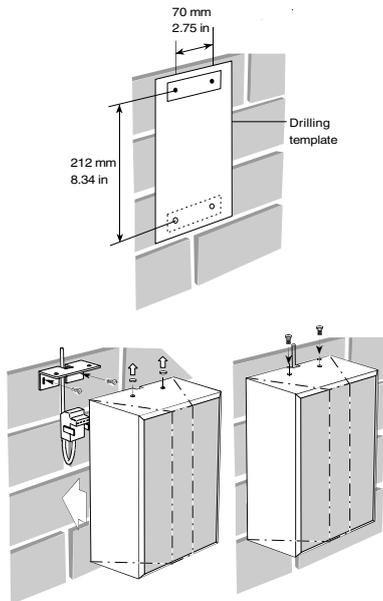
Type number overview

- LBC 3041/02 6 W cabinet (grey)
- LBC 3041/12 6 W cabinet with volume control (grey)
- LBC 3041/52 6 W cabinet (off-white)
- LBC 3041/62 6 W cabinet with volume control (off-white)
- LBC 3045/02 6 W bi-directional cabinet (grey)
- LBC 3045/52 6 W bi-directional cabinet (off-white)

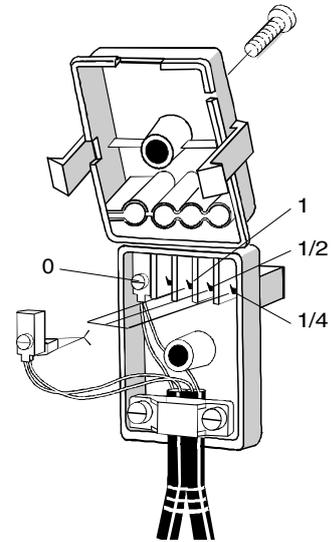
SPECIFICATIONS

LBC 3041/x2, LBC 3045/x2

CABINET LOUDSPEAKERS



Wall mounting



Power tapping with (loop-through wiring) 'quick-plug' connector

TECHNICAL PERFORMANCE DATA ACC. TO IEC 268-5

	LBC 3041/x2	LBC 3045/x2
Max. power	9 W	9 W
Rated power (PHC)	6 W (6 - 3 - 1.5 W)	6 W (6 - 3 - 1.5 W)
Sound pressure level at rated power / I W (at 1 kHz, 1 m)	98 dB/90 dB (SPL)	97 dB/89 dB (SPL)
Effective frequency range (-10 dB)	150 Hz to 20 kHz	150 Hz to 18 kHz
Opening angle (at 1 kHz/4 kHz, -6 dB)	180°/60°	210°/60°
Rated voltage	100 V	100 V
Rated impedance	1667 Ω	1667 Ω
Speaker size	5"	5"
Magnet weight	2.8 oz	2.8 oz
Ambient temperature range	-25 to +55 °C	-25 to +55 °C
Safety	acc. to EN 60065	acc. to EN 60065
Connection	100 V 'quick-plug' connector	100 V 'quick-plug' connector
Dimensions (H x W x D)	270 x 170 x 110 mm (10.6 x 6.7 x 4.4 in)	270 x 255 x 164 mm (10.6 x 10.0 x 6.4 in)
Colour		
(Cabinet/front)	matches RAL 7037/7043 (I02 and I12)	matches RAL 7037/7043 (I02)
(Cabinet/front)	matches RAL 9010/7044 (I52 and I62)	matches RAL 9010/7044 (I52)
Weight	2.5 kg (5.5 lb)	3 kg (6.6 lb)



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