BC-2LD

BHM
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Audiometric Bone Conductor – the standard for audiometric diagnostic

Product Information

The BHM BC-2LD audiometric bone conductor is developed, fabricated and hand assembled by BHM in Austria. It is based on state-of-the-art bone conduction technology and specialist know-how from BHM, the leading company of bone conduction hearing aids. BC-2LD comes with a detachable cable that can be fixed. Ultrasonic welding of the housing parts ensures special robustness and protection against environmental influences such as moisture and sweat. A customized headband complying with the audiometry standard is available. In addition, BC-2LD is compatible with the existing metallic headband for Audiometry.

BHM knows the importance of these devices for customers, and therefore practice its best every day.

Features

- detachable cable
- 6.35 mm mono jack plug
- Suitable headband
- Meets the international Audiometry standard
- Biocompatible material
- ISO and ANSI compliant
- 3 year warranty
- Compatible with the existing metallic headband for Audiometry
- No external metal parts – best protection against electro static discharge
- A plastic headband with rotatable clip (60 degrees) is available too

Symbolic photo

Parts

BC-2LD Audiometric Bone Conductor
BC-2LD Headband
Article numbers: on request

Compliance Standards

- IEC 60645-1:2017 – Electroacoustics – Audiometric equipment
  Part 1: Equipment for pure-tone and speech audiometry
- ANSI/ASA S3.6-2010 – American National Standard Specification for Audiometers
- ISO 389-3:2016 – Acoustics – Reference zero for the calibration of audiometric equipment
  Part 3: Reference equivalent threshold force levels for pure tones and bone vibrators
- IEC 60318-6:2007 – Electroacoustics – Simulators of human head and ear
  Part 6: Mechanical coupler for the measurement of bone vibrators
- ANSI/ASA S3.13-1987 (R2012) – American National Standard
  Mechanical coupler for measurement of bone vibrators

Reliable performance
High-end technology
Outstanding quality

A quality product of BHM-Tech Produktionsgesellschaft mbH, Grafenschachen 242, 7423 Grafenschachen, Austria / www.bhm-tech.at

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Technical Data Sheet

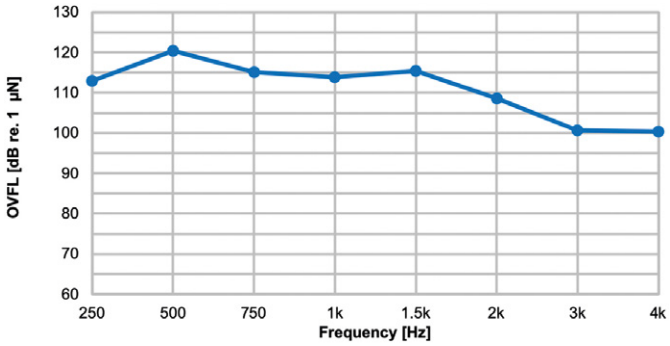
Electrical data

- Impedance: 10 Ohm @ 1 kHz
- Sensitivity: 114 dB re. 1 µN @ 1 V_{rms} and 1 kHz

Mechanical data

- Weight approx.: 20 g (without cable)
- Dimensions: Length: 33.5 mm
  Width: 18.6 mm
  Height: 18.8 mm
- Housing material: ABS polymer
- Connection: Detachable cable with mono jack plug

Output Vibratory Force Level @ 1 V_{rms}



Measuring conditions

- Artificial Mastoid Bruel & Kjaer 4930 with static force 5.4 N
- Compensation for the transmission through the Artificial Mastoid via post processing of all measurements
- THD measured at the levels required by the audiometry standard

Total Harmonic Distortion

Frequency [Hz]	250	500 - 750	1k	1.5k - 4k
Hearing Level [dB]	20	50	60	60
THD [%] typ.	2.5	<1.1	<1.1	<0.3
THD [%] max.	5.0	2.0	2.0	1.0

Audiometric Calibration

Frequency [Hz]	mV	dB re. 1 mV
250	460.1	53.3
500	71.1	37.0
750	47.3	33.5
1k	26.7	28.5
1.5k	13.3	22.5
2k	17.2	24.7
3k	28.4	29.1
4k	58.6	35.4

Required input voltage for BC-2LD (10 Ohm impedance) to provide force levels 40 dB HL ±3.0 dB above threshold (RETVFL) based on ISO and ANSI standards.

Warnings

- This class of equipment is allowed in domestic establishments when used under the jurisdiction of a health care professional.
- BC-2LD may only be used with certified audiometers.
- BC-2LD is intended for diagnostic and clinical use by audiologists and other trained health care professionals in testing the hearing of their patients.
- No parts may be eaten, burnt, or in any way used for purposes other than the applications defined above.
- Clean the device between patients, e.g. with a non-alcohol based antibacterial wipe, such as Audiowipes.
- This device is covered by the Directive 2012/19/EC on waste electrical and electronic equipment (WEEE). The device can be disposed of as normal electronic waste, according to local regulations.

CE RoHS compliant AUSTRIA

Changes may be done without any notice in order to improve product performance.

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