BC-2LD

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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 S3.6-2018 – 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

Version 1.4 - 2022/09

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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

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

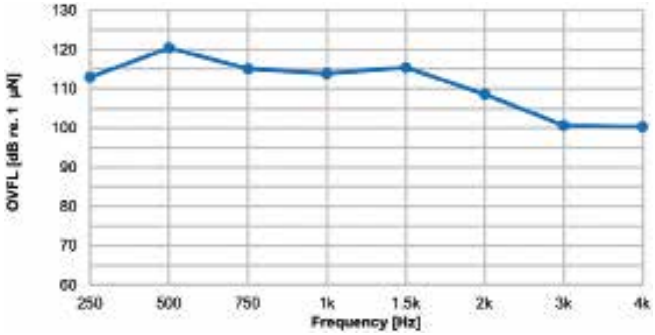
Total Harmonic Distortion

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

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 with a disinfectant wipe for hearing systems, earmolds or spectacles. Afterwards wipe dry with a clean and soft cloth.
- 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.

Output Vibratory Force Level @ 1 V_{rms}



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.

CE RoHS compliant QUALITY MANUFACTURED IN AUSTRIA

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

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