

# B71W

## Bone Transducers

#8506731 (10 ohm), #8506732 (50 ohm), #8506733 (32 ohm),

#8506734 (100 ohm), #8506735 (150 ohm), #85067326 (300 ohm)

The Gold  
Standard

of Audiometric Transducers

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### Features

- Reliable performance
- RoHS compatible
- Outstanding quality
- Biocompatible case
- ANSI and ISO compliant



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### RadioEar Bone Transducers

Since its introduction in the 1970s the RadioEar B71 has been the bone transducer of choice for audiometric testing. In response to RoHS directive 2011/65/EU, which took effect in July of 2014, RadioEar has developed the B71W bone transducer. This alternative device is identical in all aspects of the original B71 with regards to performance and materials except it does not contain lead. RadioEar has an extensive history of successfully serving the audiometric industry. We recognize the critical importance these devices have for our customers, and are sincerely dedicated to serving them.

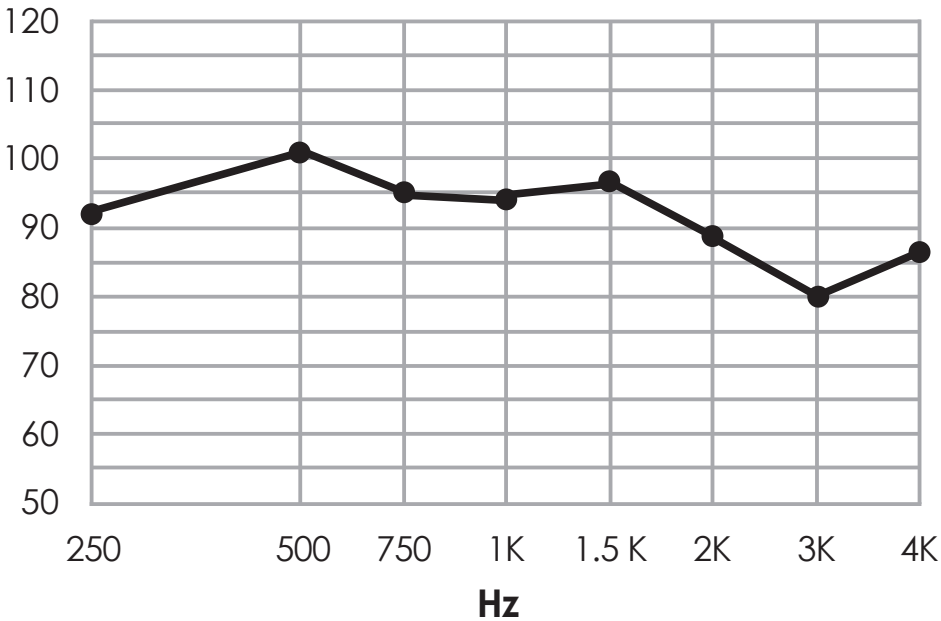
- Unsurpassed in consistent reliable performance
- Fabricated and hand assembled in the US
- Available in custom impedances up to 300 ohm
- Subject to change

B71W

# Technical Specifications

## Typical Response Curve

dB re 1.0µN



Input = 1.0mW@1KHz

## Standards

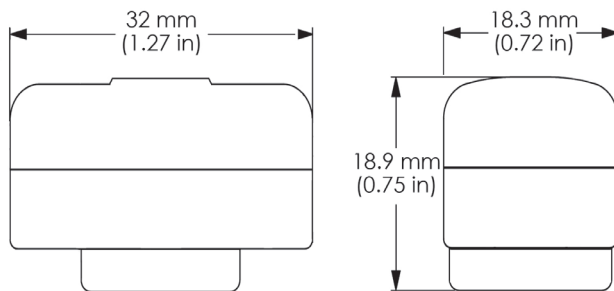
- ISO 389-3:1994(E) ANSI S3.6-2010, IEC 60645-1:2012 and IEC 60645-2:1993
- Common impedances: 10, 32, 50, 100, 300 ohms @ 1 kHz (custom impedances available)
- Frequency response: 250-4000 Hz
- Max Input Voltage: 20 dB re 1.0 mW
- Biocompatibility: no biological effects as per ISO 10993-1:2009
- Weight: 24 g (0.846 oz)
- Connector: receptacle for Type 31 plug

## Harmonic Distortion

Frequency Hz	250	500 & 750	1K - 4K
Hearing Level	20	50	50
T.H.D.% Typical	2.3	<1.1	<0.3
T.H.D.% Maximum	5.5	5.5	5.5

All measurements performed on Brüel & Kjær Type 4930 Artificial Mastoid with 5.4N static load.

Test results for individual, serialized, bone transducers are available.



Physical dimensions of the bone transducer B71W

## Audiometric Calibration

Frequency Hz	mV	dB re 1.0mV
250	515.9	54.3
500	69.0	36.8
750	43.9	32.9
1000	25.5	28.1
1500	10.1	20.1
2000	11.8	21.4
3000	31.5	30.0
4000	27.2	28.7

The data above gives the required input voltage as measured at the bone transducer terminals to provide force levels 40dB nHL ± 3.0dB above threshold (RETFL) based on ISO and ANSI standards for a typical B71, 10 ohm impedance.