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 a extensive history of successfully serving the audiometric industry. We recognize the critical importance these devices play for our customers, and are sincerely dedicated to serving them.

RadioEar B71W Features:

- Unsurpassed in consistent reliable performance.
- Fabricated and hand assembled in New Eagle, Pennsylvania.
- Available in custom impedances up to 300 ohm.
- Exceptional customer service and outstanding technical support.
- Individual, serial number specific, test results are available for audiometer calibration.
- Radioear’s three year limited warranty covers all manufacturing defects.
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.

**Technical Performance**

**B71W**

**Typical Response Curve**

![Typical Response Curve](image)

**Harmonic Distortion**

<table>
<thead>
<tr>
<th>Frequency Hz</th>
<th>250</th>
<th>500 &amp; 750</th>
<th>1K-4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hearing Level</td>
<td>20</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>T.H.D.% Typical</td>
<td>2.3</td>
<td>&lt;1.1</td>
<td>&lt;0.3</td>
</tr>
<tr>
<td>T.H.D.% Maximum</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

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

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