



Full shell with battery size 13 and AudioZoom

## Ear simulator data

EN / IEC 60118 and IEC 60711

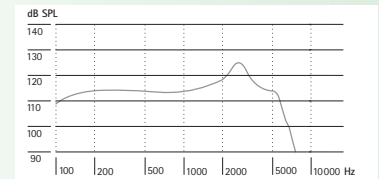
### Output sound pressure level

(Input 90 dB SPL)

|            |            |
|------------|------------|
| Maximum    | 1600 Hz    |
| 125 dB SPL | 116 dB SPL |

### Frequency response

— Max. gain  
(Input 90 dB SPL)



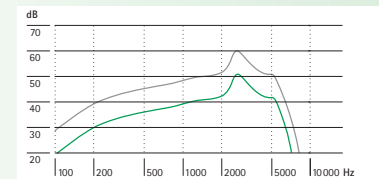
### Acoustic gain

(Input 50 dB SPL)

|         |         |       |
|---------|---------|-------|
| Maximum | 1600 Hz | RTG   |
| 60 dB   | 50 dB   | 41 dB |

### Frequency response

— Max. gain  
(Input 50 dB SPL)  
— Reference test gain  
(Input 60 dB SPL)



Frequency range (DIN 45605) 150–6500 Hz

|                           |        |        |         |
|---------------------------|--------|--------|---------|
| Total harmonic distortion | 500 Hz | 800 Hz | 1600 Hz |
|                           | 2,0%   | 1,5%   | 1,5%    |

|                 |           |         |
|-----------------|-----------|---------|
| Battery current | Quiescent | Working |
|                 | 1,0 mA    | 1,1 mA  |

Equivalent input noise level 19 dB SPL

Unless otherwise specified, all data obtained are measured with a 6 mm tubing in the dSC mode.

Measurements were taken in July 2005 and are subject to change without notice.

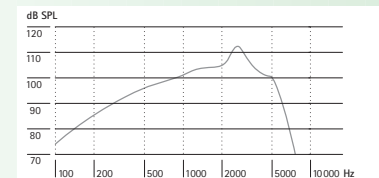
### Induction coil sensitivity

(Input 1 mA/m)

|           |           |
|-----------|-----------|
| Maximum   | 1600 Hz   |
| 93 dB SPL | 83 dB SPL |

### Frequency response

— Reference test gain  
(Input 31.6 mA/m)



### Dynamic data

|             |             |               |
|-------------|-------------|---------------|
| Compression | Attack time | Recovery time |
|             | 1 ms        | 10 ms         |

# eXtra™ 33 FS AZ

## 2 cm<sup>3</sup> coupler data

ANSI S3.22-1996

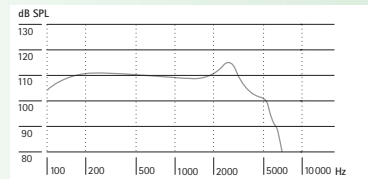
### Output sound pressure level

(Input 90 dB SPL)

|                         |            |
|-------------------------|------------|
| Maximum                 | HFA        |
| 115 dB SPL < 118 dB SPL | 111 dB SPL |

### Frequency response

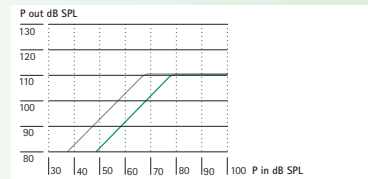
— Full-on-gain  
(Input 90 dB SPL)



## 2 cm<sup>3</sup> coupler data

### Input / Output characteristics at 2000 Hz

— Full-on-gain  
— Reference test gain



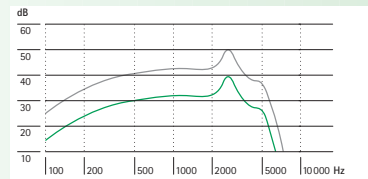
### Acoustic gain

(Input 50 dB SPL)

|         |       |       |
|---------|-------|-------|
| Maximum | HFA   | RTG   |
| 50 dB   | 44 dB | 34 dB |

### Frequency response

— Full-on-gain  
(Input 50 dB SPL)  
— Reference test gain  
(Input 60 dB SPL)



Frequency range < 100–6400 Hz

|                           |             |             |             |
|---------------------------|-------------|-------------|-------------|
| Total harmonic distortion | 500 Hz      | 800 Hz      | 1600 Hz     |
|                           | 1,5% < 4,5% | 1,0% < 4,0% | 1,0% < 4,0% |

|                 |           |                 |
|-----------------|-----------|-----------------|
| Battery current | Quiescent | Working         |
|                 | 1,0 mA    | 1,1 mA < 1,3 mA |

Equivalent input noise level 19 dB SPL < 22 dB SPL

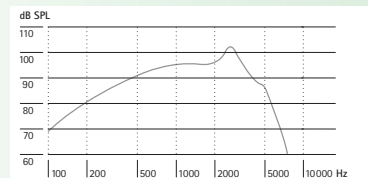
### Induction coil sensitivity

(Input 31.6 mA/m)

|             |       |
|-------------|-------|
| HFA – SPLIV | TLS   |
| 97 dB SPL   | +3 dB |

### Frequency response

— Reference test gain  
(Input 31.6 mA/m)



### Dynamic data

|             |             |               |
|-------------|-------------|---------------|
| Compression | Attack time | Recovery time |
|             | 1 ms        | 10 ms         |