



Full shell with battery size 13

## Ear simulator data

EN / IEC 60118 and IEC 60711

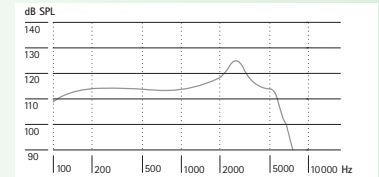
### Output sound pressure level

(Input 90 dB SPL)

Maximum	1600 Hz
125 dB SPL	116 dB SPL

### Frequency response

— Max. gain  
(Input 90 dB SPL)



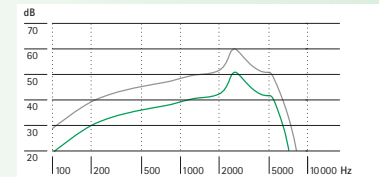
### Acoustic gain

(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.

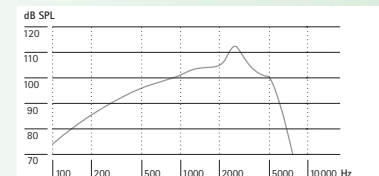
### Induction coil sensitivity

(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

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

ANSI S3.22-1996

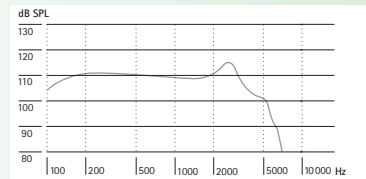
### Output sound pressure level

(Input 90 dB SPL)

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

### Frequency response

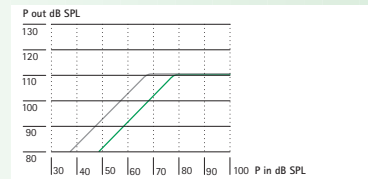
— Full-on-gain  
(Input 90 dB SPL)



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

### Input / Output characteristics at 2000 Hz

— Full-on-gain  
— Reference test gain



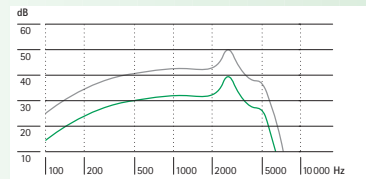
### Acoustic gain

(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

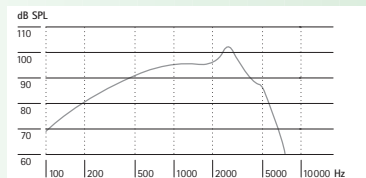
### Induction coil sensitivity

(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