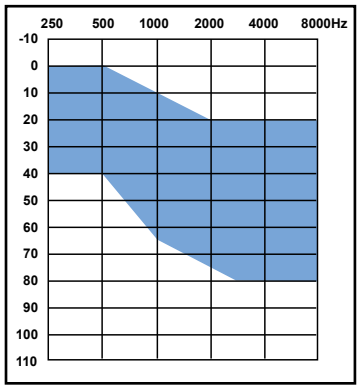
SeboTek® Voice-Q™410 PAC

Post Auricular Canal Hearing Instrument



System Features

- Premium digital signal processing
- High fidelity DSP for extended bandwidth up to 14,000 Hz
- Discreet instrument for mild to moderate sloping losses
- Deep canal fit
- Patented system design eliminates feedback and occlusion effect

Voice-Q™ 410 Sound Processor

Audio Processing Features

- 6-band graphic equalizer
- Multi-channel WDRC
- High fidelity expanded acoustic response
- Noise manager
- Expansion: programmable multichannel kneepoints
- Adjustable compression ratio 1:1 to infinity
- Programmable crossover control
- Feedback manager
- Output limits: programmable
- Expansion kneepoint, adjustable from 30-60 dB in each channel
- Autofit: based on a proprietary algorithm
- Modification wizard (for program adjustments)

User Features

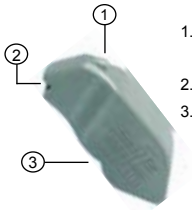
- #13 battery: up to four weeks of battery life
- Low-battery indicator: programmable
- Lock-tight battery door with snap-lock closure

Technical Features

- 32 KHz sampling rate
- 2 Sigma/Delta AD converters
  - 20-bit resolution
  - 2.048 MHz clock rate
- Digital Power Amplifier: 32 KHz, 20 bit audio signal
- 0.18 micron chip technology
- 95 dB input dynamic range
- 83 dB output dynamic range
- Headroom expander circuitry

Design Features

- Moisture-resistant, solid-state, wire-free processor design
- State-of-the-art technology design and manufacturing processes
- Environment resistant, solid connection, flex connect programming assembly
- Environment resistant, solid connection power contacts
- Lightweight, ergonomically designed case
- Titanium case screws
- Compatible with quality cell phones

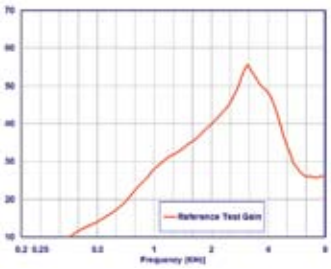


1. Microphone Protective Hood
2. Link Connector
3. Battery Door

Ear Simulation Data

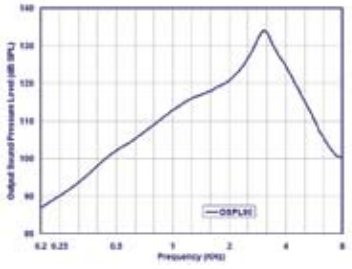
CIC Coupler

Acoustic Gain



Maximum	HFA-FOG	HFA-RTG
58 dB	36 dB	36 dB

Output Sound Pressure Level

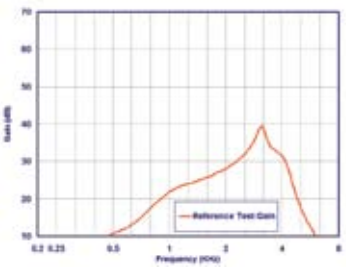


Maximum	HFA-OSPL90
132 dB SPL	120 dB SPL

ANSI S3.22-1996

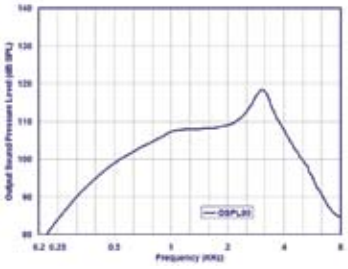
2cc Coupler

Acoustic Gain



Maximum	HFA-FOG	HFA-RTG
38 dB	26 dB	26 dB

Output Sound Pressure Level



Maximum	HFA-OSPL90
117 dB SPL	110 dB SPL

SEBOTEK®

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Technical Specifications*

Specification	Program	CIC**	2cc
Standard			ANSI S3.22 1996
Acoustic Gain (50 dB SPL input)	Maximum		
Maximum		58 dB	38 dB
HFA full-on gain		36 dB	26 dB
RTG		36 dB	26 dB
OSPL90 (90 dB SPL input)	Maximum		
Maximum		132 dB SPL	117 dB SPL
HFA- OSPL90		120 dB SPL	110 dB SPL
Frequency Range	Maximum	500 to >8000 Hz	350 to >8000 Hz
Total Harmonic Distortion	Maximum		
500 Hz		1%	1%
800 Hz		–	1%
1600 Hz		–	2%
Current Drain			
Reference Test		0.8 mA	0.8 mA
Maximum		1.2 mA	1.2 mA
Equivalent Input Noise	Maximum	17 dB SPL	15 dB SPL
Compression	Maximum		
Attack time		5 ms	5 ms
Recovery time		50 ms	50 ms

Software/Hardware

- Pro-VES™ Software version 4.6 or later
- Programmable with PC (IBM Compatible) and Hi-PRO interface
- Stand-alone software available
- Programming cables - CS64
- Programming strips - CS64 (4 pin)

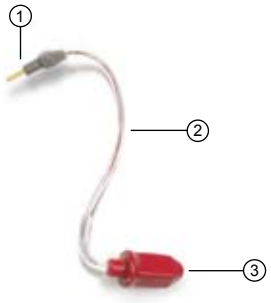
Processor Weight	
Processor only	1.1 g
Fully assembled with battery	2.7 g

* Testing conducted with PAC system fully assembled - medium speaker link, SeboTek 2cc and CIC couplers, and 10mm tip.

** CIC test protocol is recommended to more accurately demonstrate system performance.

For best results SeboTek® recommends Energizer® Zinc Air batteries.

Speaker Link



1. Processor connector
2. Environmentally-encapsulated wire
3. Protected speaker

Speaker Link

- Hermetically sealed wire blocks moisture/residue transfer
- Acoustically transparent speaker housing
- Highly resistant to moisture and dust
- High-strength sheathing withstands aggressive handling
- Shock resistant
- Minimizes cerumen-related effects
- Environmentally resistant
- Lock-tight, easy-connect/disconnect design

Ultra-Soft Tip

1. Speaker collar
2. Mushroom tip
3. Acoustically-designed horn

Ultra Soft Tip

- Soft-touch, medical-grade, hypoallergenic silicone construction
- Horn design maximizes acoustic effect
- Designed to navigate varying canal geometries
- Consistently positions speaker port away from canal wall
- Extends cerumen-control capability provided by Speaker Link

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