



## Sound F/X+4 D Mini-BTE

Directional, Multi-channel  
Wide Dynamic Range Compression

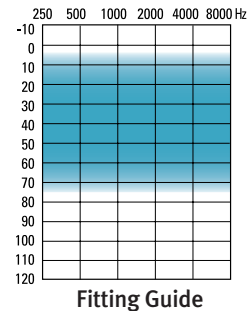
### HEARING AID FEATURES

- Two channels with Wide Dynamic Range Compression circuitry that is independently adjustable for each channel
- Directional microphone decreases sensitivity to sound coming from behind the listener
- Four parameters provide extensive fitting flexibility:
  - GL - Low-channel Gain; dark green
  - GH - High-channel Gain; light green
  - F - Crossover Frequency; purple
  - TK - Threshold Kneepoint; black
- Class D circuitry for excellent battery life
- Slim mini-housing
- Maximum Power Output tied to Volume Control
- Volume Control: numbered 1 (low) to 4 (high)
- M-T-O Switch: 3 positions Microphone–Telecoil–Off
- Direct Audio Input - MLx compatible
- Two-tone, beige/taupe housing
- Filtered earhook
- Battery size: 13
- Fitting is supported by NOAH-compatible Unifit or Standalone Unifit

### OPTIONS

- M-MT-O Switch: 3 positions Microphone–Microphone/Telecoil–Off
- Tamper-resistant battery compartment/Volume Control cover
- CROS/BiCROS
- Child-sized earhook
- Sideplate colors: opaque taupe, brown and gray; translucent red, green and blue; fluorescent pink and yellow

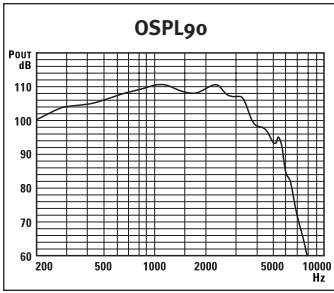
### SUITABLE FOR FITTING MILD TO MODERATELY SEVERE HEARING LOSSES



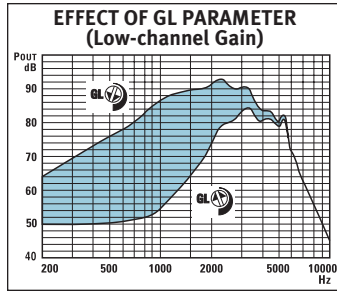
### ANSI S3.22-1996 TECHNICAL DATA

|  |             |      |
|--|-------------|------|
| Frequency Range                                | 100-8000 Hz |      |
| Peak Gain (40 dB in)                           | 56 dB       |      |
| Peak Output                                    | 113 dB      |      |
| Reference Test Gain                            | 32 dB       |      |
| HF Average Gain                                | 48 dB       |      |
| HF Average OSPL90                              | 109 dB      |      |
| Typical Battery Life<br>(Zinc Air Premium)     | 270 h       |      |
| Current Drain at RTP                           | 0.85 mA     |      |
| Telephone Magnetic Field Simulator             |             |      |
| HFA SPLITS                                     | 94 dB       |      |
| STS SPLITS                                     | 2.0 dB      |      |
| Equivalent Input Noise at RTP<br>typical 26 dB | < 30 dB     |      |
| Total Harmonic Distortion at RTP               |             |      |
| 500 Hz   | typical 1%  | < 5% |
| 800 Hz   | typical 1%  | < 5% |
| 1600 Hz  | typical 1%  | < 5% |
| Fast Time Constant                             |             |      |
| Attack Time                                    | 5 ms        |      |
| Release Time                                   | 20 ms       |      |
| Slow Time Constant                             |             |      |
| Attack Time                                    | 200 ms      |      |
| Release Time                                   | 450 ms      |      |
| Compression Ratio                              | 4:1 to 1:1  |      |

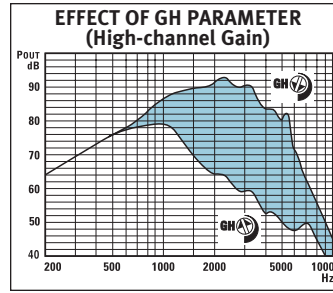
# SOUND F/X+4 D MINI-BTE ANSI SPECIFICATIONS



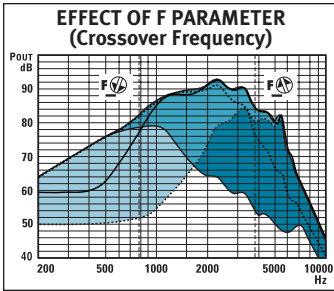
Input sound pressure level: 90 dB  
Volume Control: full on  
GL GH F TK  
+ + - -



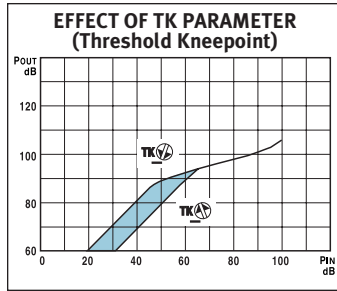
Input sound pressure level: 50 dB  
Volume Control: RTP  
GH F TK  
+ + -



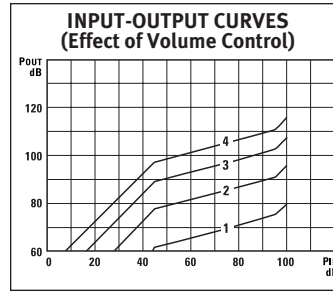
Input sound pressure level: 50 dB  
Volume Control: RTP  
GL F TK  
+ - -



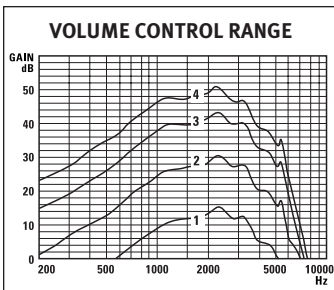
Input sound pressure level: 50 dB  
Volume Control: RTP  
GL GH TK  
+/- +/- -



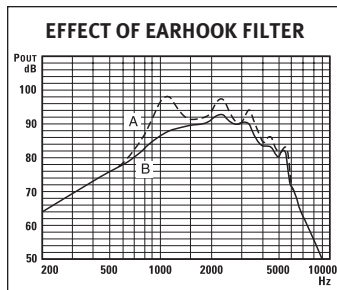
Input at 2000 Hz  
Volume Control: RTP  
GL GH F  
+ + -



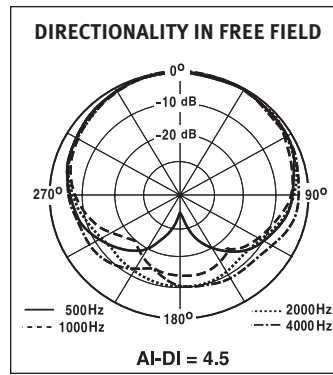
Input at 2000 Hz  
Volume Control: as shown  
GL GH F TK  
+ + - -



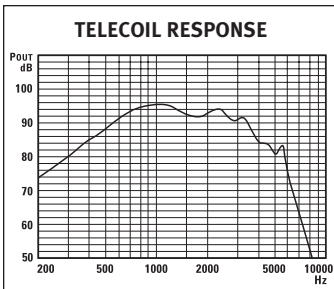
Input sound pressure level: 50 dB  
Volume Control: as shown  
GL GH F TK  
+ + - -



Input sound pressure level: 50 dB  
Volume Control: RTP  
"A" unfiltered, not recommended  
"B" filtered, standard



Note: TK preset to 55 dB  
Input level: 50 dB



Input: 31.6 mA/m  
Volume Control: RTP  
GL GH F TK  
+ + - -

## TEST CONDITIONS

RTP-ANSI: Reference Test Position of the Volume Control: 3  
BATTERY: 13 Zinc Air Premium  
SOURCE: Voltage 1.3 V  
Impedance 6 Ohms  
EARHOOK: Filtered  
TUBING: Length 25 mm,  
Inside Diameter 1.93 mm  
Refer to: "Summary of Test Conditions and Limits" for more details.

## AID MARKING: S F/X 4 D

## COMPLIANCE

Our products are designed to meet all of the limits required when tested in accordance with the applicable standard.

## REFERENCES

ASA: Acoustical Society of America, ANSI S3.22-1996  
FDA: Food and Drug Administration, Part 801

We reserve the right to change specification data without notice as improvements are introduced.

This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used.



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