



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

Power, Multi-channel  
Wide Dynamic Range Compression

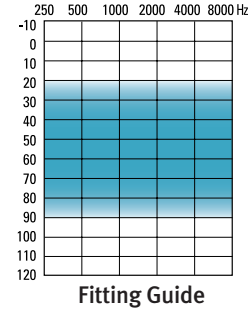
### HEARING AID FEATURES

- Two channels with Wide Dynamic Range Compression circuitry that is independently adjustable for each channel
- 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
- O-T-MT-M Switch: 4 positions  
Off–Telecoil–Microphone/Telecoil–Microphone
- 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

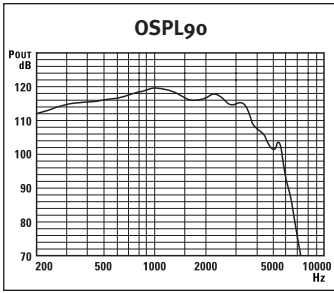
### SUITABLE FOR FITTING MODERATE TO SEVERE HEARING LOSSES



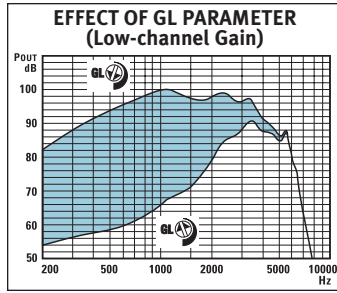
### ANSI S3.22-1996 TECHNICAL DATA

Frequency Range	100-8000 Hz	
Peak Gain (40 dB in)	65 dB	
Peak Output	121 dB	
Reference Test Gain	40 dB	
HF Average Gain	57 dB	
HF Average OSPL90	117 dB	
Typical Battery Life (Zinc Air Premium)	190 h	
Current Drain at RTP	1.2 mA	
Telephone Magnetic Field Simulator		
HFA SPLITS	99 dB	
STS SPLITS	-1.0 dB	
Equivalent Input Noise at RTP (50 dB in)	< 28 dB typical 26 dB	
Total Harmonic Distortion at RTP		
500 Hz	typical 1%	< 6%
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	

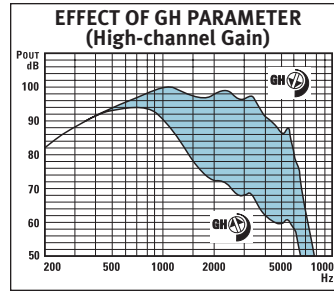
# SOUND F/X+4 P MINI-BTE ANSI SPECIFICATIONS



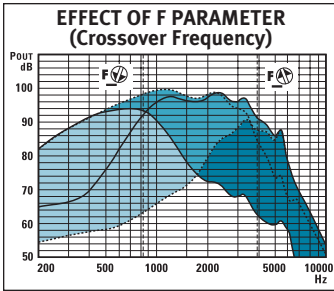
Input sound pressure level: 90 dB  
Volume Control: full on  
GL GH F TK  
+ + - -



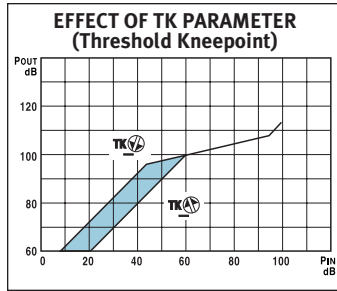
Input sound pressure level: 50 dB  
Volume Control: RTP  
GH F TK  
+ + -



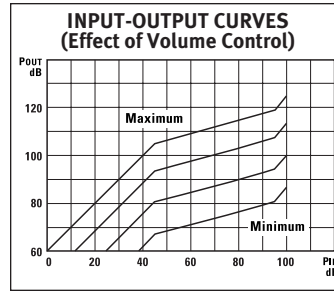
Input sound pressure level: 50 dB  
Volume Control: RTP  
GL F TK  
+ - -



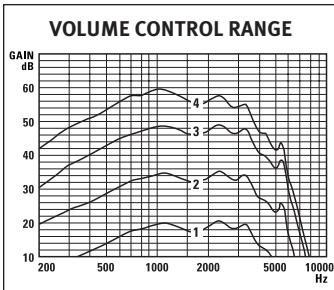
Input sound pressure level: 50 dB  
Volume Control: RTP  
GL GH TK  
+/- +/- -



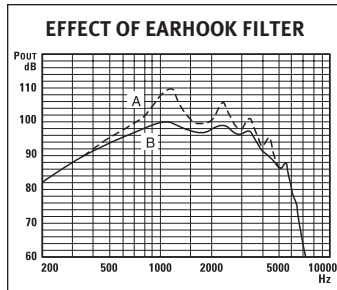
Input at 2000 Hz  
Volume Control: RTP  
GL GH F  
+ + -



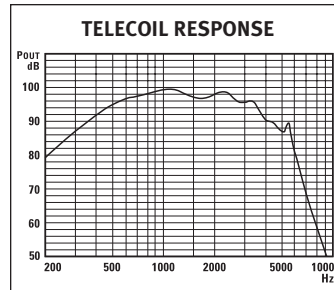
Input at 2000 Hz  
Volume Control: as shown  
GL GH F TK  
+ + - -



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



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 P

## 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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