



Sound F/X Custom

Multi-channel Wide Dynamic Range Compression

HEARING AID FEATURES

- Two channels with Wide Dynamic Range Compression circuitry that is independently adjustable for each channel
- Three parameters provide full fitting flexibility:
 - GL – Low-channel Gain (dark green)
 - GH – High-channel Gain (light green)
 - F – Crossover Frequency (purple)
- Twin average compression detectors reduce “pumping”
- Available shell styles to suit your clients’ requirements:
 - Mini-canal - Canal
 - Half-shell - Full-shell
- Class D circuitry for excellent battery life
- High quality microphone has higher sensitivity and reduced noise
- Full range of venting options available
- Optional telecoil with preamplifier
- Contoured, matte finish faceplate provides attractive cosmetics
- Fitting is supported by NOAH-compatible Unifit or Standalone Unifit

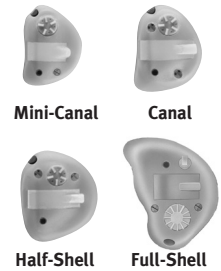
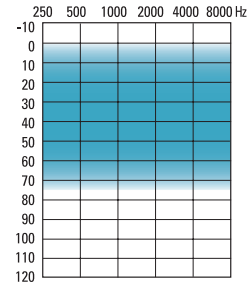
MATRIX SELECTION

Mini-canal	100/35-10/F/X 105/40-15/F/X
Canal/Half-shell	100/35-10/F/X 105/40-15/F/X 110/45-20/F/X
Full-shell	100/40-10/F/X 105/45-15/F/X 110/50-20/F/X

MAXIMUM FITTER ADJUSTABLE PARAMETERS

Mini-canal	1 Parameter
Canal	2 Parameters
Half-shell	2 Parameters
Full-shell	3 Parameters
Telecoil Switch	

SUITABLE FOR FITTING MILD TO MODERATELY SEVERE HEARING LOSSES



Fitting Guide

Sound F/X Programmable can fit audiogram configurations ranging from reverse to precipitously sloping.

IEC 118-7 TECHNICAL DATA

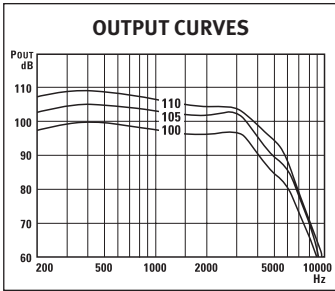
Frequency Range	100-8000 Hz	
Peak Gain	35-50 dB	
Peak Output	100-110 dB	
Reference Test Gain	5-30 dB	
Full on Average Gain*	10-46 dB	
Average Output*	98-106 dB	
Reference Test Frequency	1.6 kHz	
Full on Gain at 1.6 kHz	10-44 dB	
Output at 1.6 kHz	96-105 dB	
Typical Battery Life	13	240-485 h
(Zinc Air Premium)	312	125-250 h
	10A	75-150 h
Current Drain at RTG	0.6-1.2 mA	
Output with Inductive Input at 1.6 kHz	80-96 dB	
Peak	81-97 dB	
Equivalent Input Noise at RTG (40 dB in)	< 28 dB	
Fast Time Constant		
Attack Time	5 ms	
Release Time	20 ms	
Slow Time Constant		
Attack Time	200 ms	
Release Time	500 ms	
Compression Ratio	1:1 to 4:1	

*Average of 500, 1000 and 2000 Hz

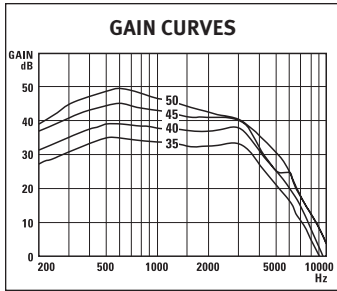
IEC 118-0 EAR SIMULATOR

Frequency Range	100-8000 Hz	
Peak Gain	43-53 dB	
Peak Output	108-115 dB	
Reference Test Gain	10-38 dB	
Full on Gain at 1.6 kHz	39-53 dB	
Output at 1.6 kHz	104-113 dB	

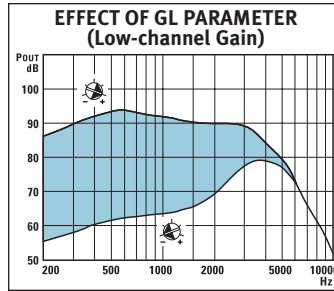
SOUND F/X CUSTOM IEC 118-7 2cc COUPLER SPECIFICATIONS



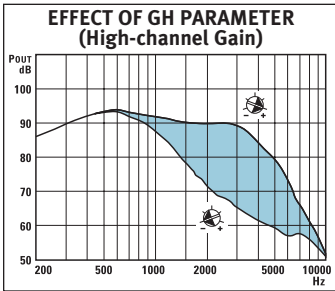
Input sound pressure level: 90 dB
Volume Control: full on
GL GH F
+ + -



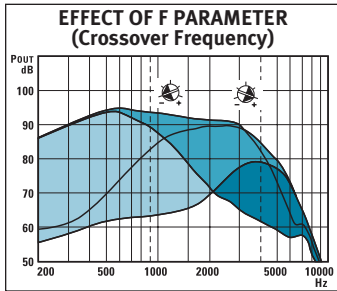
Input sound pressure level: 50 dB
Volume Control: full on
GH GH F
+ + -



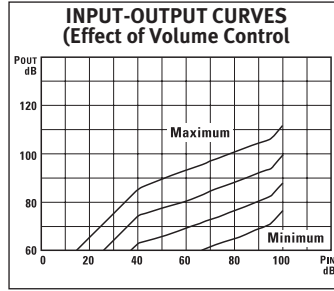
Input sound pressure level: 50 dB
Volume Control: full on
GH F
+ +



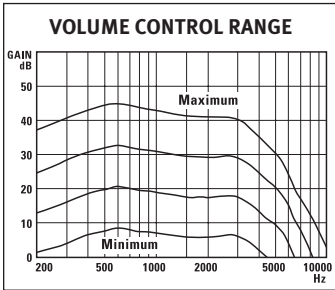
Input sound pressure level: 50 dB
Volume Control: full on
GL F
+ -



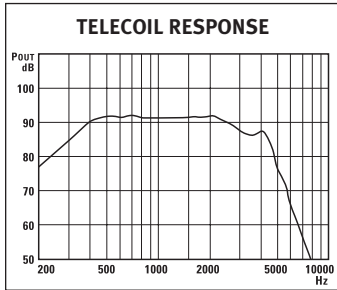
Input sound pressure level: 50 dB
Volume Control: full on
GL GH
+/- +/-



Input at 1600 Hz
Volume Control: as shown
GL GH F
+ + -

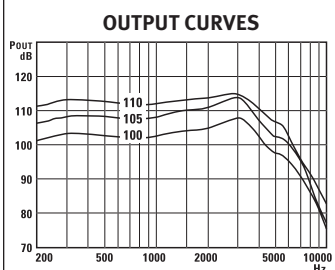


Input sound pressure level: 50 dB
Volume Control: as shown
GL GH F
+ + -

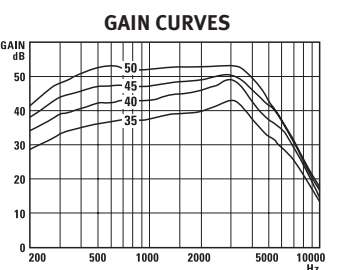


Input level: 1 mA/m
Volume Control: full on
GL GH F
+ + -

IEC 118-0 EAR SIMULATOR



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



Input sound pressure level: 50 dB
Volume Control: full on
GL GH F
+ + -

TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control
BATTERY: 13 Zinc Air Premium
SOURCE: Voltage 1.3 V Impedance 6 Ohms
COUPLER: HA-1
VENT: Closed at canal end
Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING: S F/X

COMPLIANCE

Responses will vary according to ear size and shape, hearing loss requirements and shell acoustics.

REFERENCES

IEC: International Electrotechnical Commission Publication 118-0, 118-7 (1983)

European Standard EN60118/A1 February, 1994

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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