Programmable

Sound F/X P Pro
Mini-BTE

Power, Multi-Channel
Wide Dynamic Range Compression

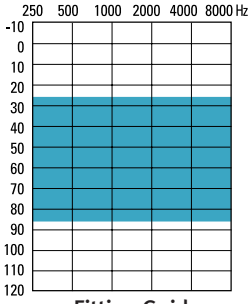
HEARING AID FEATURES

- Two channels with Wide Dynamic Range Compression circuitry that is independently adjustable for each channel
- Five programmable parameters provide extensive fitting flexibility:
  GL - Low-channel Gain
  GH - High-channel Gain
  F - Crossover Frequency
  TK - Threshold Kneepoint
  P - Power
- 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)
- O-T-M Switch: 3 positions, Off–Telecoil–Microphone
- Direct Audio Input – MLx compatible
- Two-tone, beige/taupe housing
- Filtered earhook
- Battery size: 13
- Sound F/X can be programmed using NOAH-compatible Unifit, Standalone Unifit or portable Pocket Unifit

OPTIONS

- O-MT-M Switch: 3 positions, Off–Microphone/Telecoil–Microphone
- 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 colours: opaque taupe, brown and grey; transparent red, green and blue; fluorescent pink and yellow

SUITABLE FOR FITTING MODERATE TO SEVERE HEARING LOSSES



Fitting Guide

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)		
Typical 26 dB		< 28 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		400 ms
Compression Ratio		4:1 to 1:1

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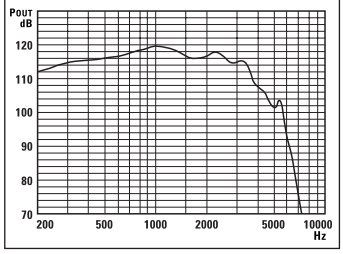
CE 0543

SOUND F/X P PROGRAMMABLE MINI-BTE ANSI SPECIFICATIONS

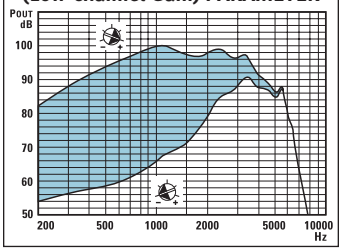
SATURATION OUTPUT CURVE



Input sound pressure level: 90 dB
Volume Control: full on

GL	GH	F	TK	P
+	+	–	–	+

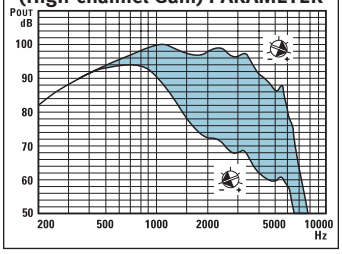
EFFECT OF GL (Low-channel Gain) PARAMETER



Input sound pressure level: 50 dB
Volume Control: RTP

GH	F	TK	P
+	+	–	+

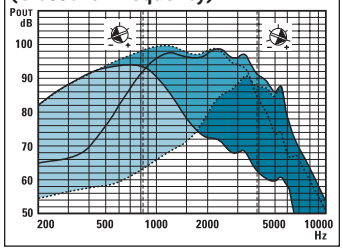
EFFECT OF GH (High-channel Gain) PARAMETER



Input sound pressure level: 50 dB
Volume Control: RTP

GL	F	TK	P
+	–	–	+

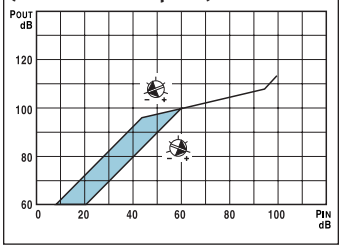
EFFECT OF F (Crossover Frequency) PARAMETER



Input sound pressure level: 50 dB
Volume Control: RTP

GL	GH	TK	P
+/–	+/–	–	+

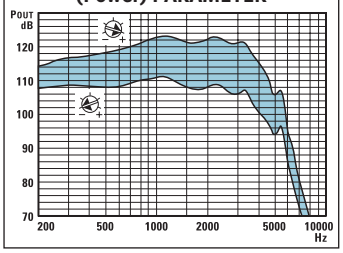
EFFECT OF TK (Threshold Kneepoint) PARAMETER



Input at 2000 Hz
Volume Control: RTP

GL	GH	F	P
+	+	–	+

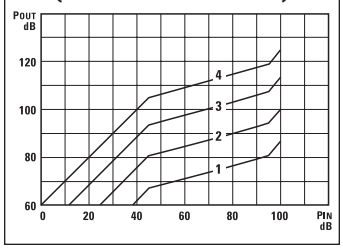
EFFECT OF P (Power) PARAMETER



Input sound pressure level: 100 dB
Volume Control: full on

GL	GH	F	TK
+	+	–	–

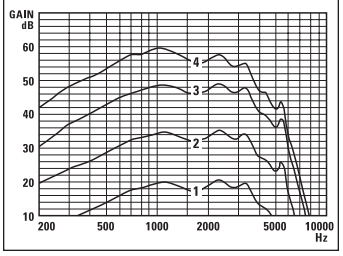
INPUT-OUTPUT CURVES (Effect of Volume Control)



Input at 2000 Hz
Volume Control: as shown

GL	GH	F	TK	P
+	+	–	–	+

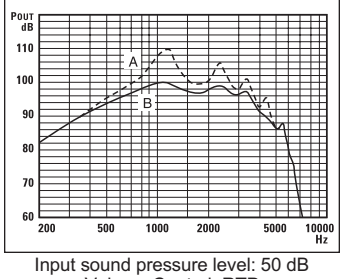
VOLUME CONTROL RANGE



Input sound pressure level: 50 dB
Volume Control: as shown

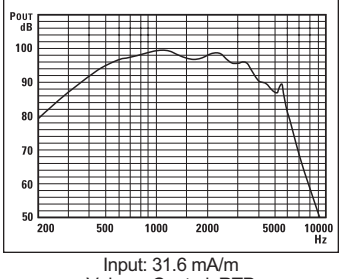
GL	GH	F	TK	P
+	+	–	–	+

EFFECT OF EARHOOK FILTER



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

TELECOIL RESPONSE



Input: 31.6 mA/m
Volume Control: RTP

GL	GH	F	TK	P
+	+	–	–	+

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 P Pro

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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