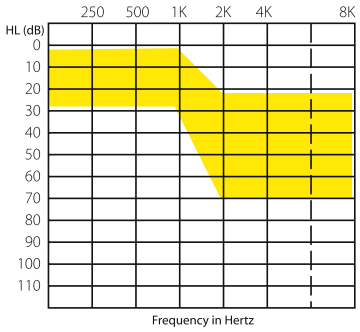
## OTE Performance Data

# ADSP-4

**Advanced Digital Signal Processing**

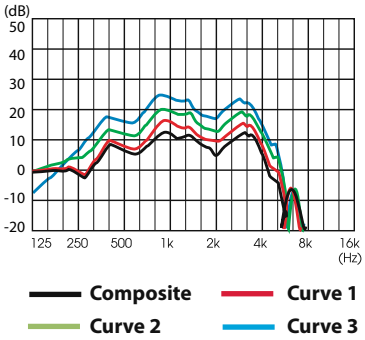
- Advanced Adaptive Feedback Cancellation
  Adds 15 dB more fitting range
- Layered Noise Reduction
  Syllabic layer reduces noise that is embedded in speech
- Programmable Tone Generator
- Low Battery warning
- 12 band Gain Adjustment
- Programmable Power-On Delay

**TYPICAL FITTING RANGE**




**Data listed on this side of the specification sheet applies to GHI OTE Discovery.**

The multi-curve analysis shown on the right reflects typical ADSP performance at each of the four memories. The data were gathered using a standard 2cc coupler. Note that the curves were obtained with an input signal of composite noise with an intensity of 65 dB-SPL. The curve with the least amount of overall gain (Composite Curve) represents Memory 1. The curve with the most amount of overall gain represents Memory 4. The overall frequency response remains constant across memories, and that gain is the only variable.




**Composite (memory 1)**
Source.....65.0 dB
Peak.....12.9 dB
Peak Frequency.....3,100 Hz
RMS Out .....72.5 dB
Noise Reduction.....0.0 dB

**Curve 1 (memory 2)**
Source.....65 dB
Peak.....16.7 dB
Peak Frequency.....1,000 Hz
RMS Out .....75.7 dB
Noise Reduction.....0.0 dB

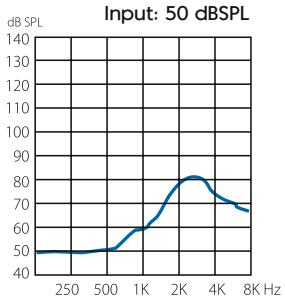
**Curve 2 (memory 3)**
Source.....65 dB
Peak.....20.6 dB
Peak Frequency..3,100.0 Hz
RMS Out .....79.8 dB
Noise Reduction.....0.0 dB

**Curve 3 (memory 4)**
Source.....65.0 dB
Peak.....24.8 dB
Peak Frequency..3,100.0 Hz
RMS Out .....83.8 dB
Noise Reduction.....0.0 dB

REAL-EAR DATA

These data display typical real-ear performance with the instrument programmed for free-field fitting and set in Memory 4 (highest gain).

The effects of the free-field venting can be seen with the roll-off at frequencies below 2000 Hz. (which contains most of the noise energy). There is transparent open ear canal resonance, resulting in efficient high frequency gain from 2000 Hz. to beyond 4000 Hz.




Battery Drain .....0.85 mA
Battery Life (10A) ..... 94 Hrs.

General Hearing Instruments, Inc.
P.O. Box 23748
New Orleans, LA 70183-0748
800.824-3021 Fax (504) 733-3767

## ITE Performance Data

# ADSP-4

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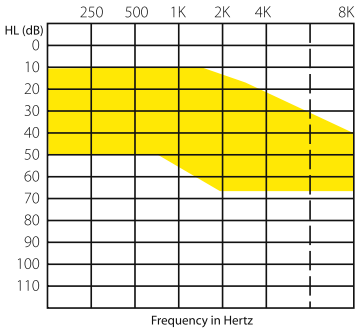
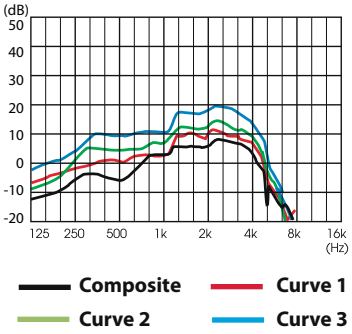
  Adds 15 dB more fitting range
- Layered Noise Reduction
  Syllabic layer reduces noise that is embedded in speech
- Programmable Tone Generator
- Low Battery warning
- 12 band Gain Adjustment
- Programmable Power-On Delay
  (default 3 second delay)

**TYPICAL FITTING RANGE**




Battery Drain .....0.85 mA
Battery Life (10A) ..... 94 Hrs.

The multi-curve analysis shown on the right reflects typical ADSP-4 performance at each of the four memories. The data were gathered using a standard 2cc coupler. Note that the curves were obtained with an input signal of composite noise with an intensity of 65 dBSPL. The curve with the least amount of overall gain (Composite Curve) represents Memory 1. The curve with the most amount of overall gain represents Memory 4. The overall frequency response remains constant across memories, and that gain is the only variable.




**Composite (memory1)**
Source..... 65.0 dB
Peak..... 7.5 dB
Peak Frequency..... 2,600.0 Hz
RMS Out ..... 66.3 dB
Noise Reduction..... 0.0 dB

**Curve 1 (memory 2)**
Source..... 65 dB
Peak..... 11.5 dB
Peak Frequency..... 2,430.0 Hz
RMS Out ..... 69.8 dB
Noise Reduction..... 0.0 dB

**Curve 2, (memory 3)**
Source..... 65.0 dB
Peak..... 15.3 dB
Peak Frequency..... 2,500 Hz
RMS Out ..... 73.5 dB
Noise Reduction..... 0.0 dB

**Curve 3, (memory 4)**
Source..... 65.0 dB
Peak..... 19.7 dB
Peak Frequency..... 2,400.0 Hz
RMS Out ..... 77.8 dB
Noise Reduction..... 0.0 dB

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