

# J13 Sequel Digital Signal Processor

Multichannel digital signal processing incorporating versatile compression and directionality with an advanced Peak Shift Control.



*J13 Sequel BTE  
with PDI MM*

*J13 Sequel BTE  
MultiMemory*

## Feature Summary:

**MultiChannel Programmability** as WDRC or Output Compression Limiting with multiple intermediate settings, offered in a superior circuit.

**Peak Shift Control** engineered with an extended frequency range of 600–3200 Hz.

**Precision Directional Imaging** utilizes advanced directional microphone technology to enhance speech understanding in noisy environments, available on the J13 Sequel PDI MM.

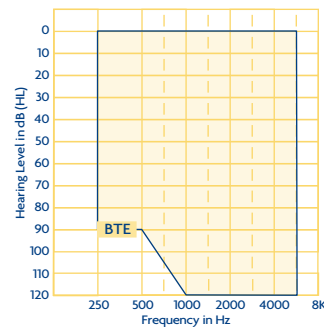
**Wide Band Expansion** technology reduces circuit and low level environmental noise typically associated with WDRC hearing aids.

**Programmable Indicator Tones** for low battery and MultiMemory.

**MultiMemory** with up to 3 fully programmable memories accessed via a push button.

**Programmable Telecoil** accessed via push button allows for fully adjustable frequency response of telecoil within a memory. Enable M/T mode allows for combined microphone and telecoil inputs.

**Wireless FM and Direct Audio Input (DAI)** capable.



**Volume Control** with optional disable VC feature within PFS.

**M-O Switch.**

**Tamper Resistant Battery Door.**

**Size 13 Battery.**

## Options:

Wide Variety of Case Colors available.

BTE Snap-On FACES available in 36 colors.

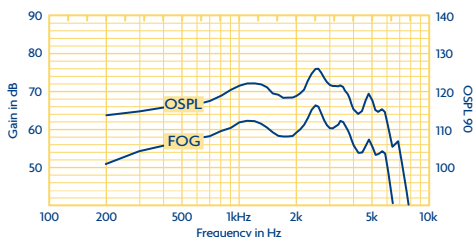
Direct Audio Input accessories.

Pediatric and filtered earhooks available.

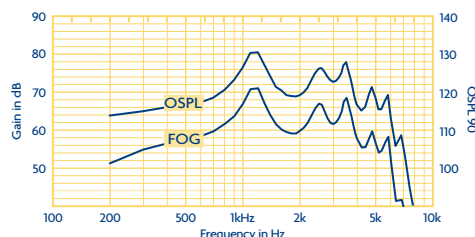


*J13 Sequel Digital BTE*

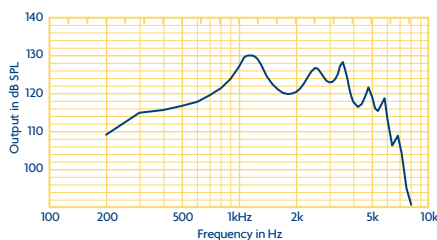
Peak OSPL90 (dB SPL)	ANSI 130	IEC 132
HFA OSPL90 (dB SPL)	125	NA
RTF OSPL90 (dB SPL)	NA	126
Peak Gain (dB SPL)	70	73
HFA Full On Gain (dB SPL)	64	NA
RTF Full On Gain (dB SPL)	NA	65
Frequency Range (Hz)	0.2-6.0	NA
Ref. Test Frequency (kHz)	1.0, 1.6, 2.5	1.6
Ref. Test Gain (dB SPL) (ansi-hfa; iec-rtf)	48	51
Harmonic Distortion		
500 Hz % max	<3%	<3%
800 Hz % max	<3%	<3%
1600 Hz % max	<3%	<3%
Equivalent Input Noise (dB SPL)	<26	<26
(55-90 ANSI) (55-80 IEC) - test mode		
Attack Time (MS)	5	5
Release Time 0.1-s (MS)	160	470
Release Time 2.0-s (MS)	260	570
Induction Coil Sensitivity		
HFA SPLITS (ANSI 96) dB SPL	106	NA
MASL (IEC 118-1) dB SPL	NA	95
Battery Current (mA)	1.1	1.1
Idle (mA)	0.9	0.9
Estimated Battery Life for 16 hour day 13 Zinc Air Battery	16	16



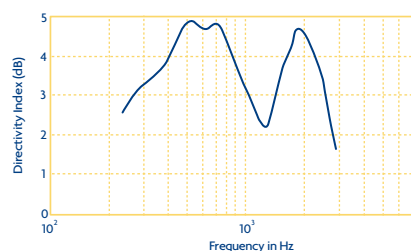
OSPL90 and Full On Gain curves for the J13 Sequel BTE with the default filtered (white 680 ohm damper) earhook.



OSPL90 and Full On Gain curves for the J13 Sequel BTE with an unfiltered earhook.



Induction Coil Sensitivity at Full On Gain. Data obtained in RMS magnetic field strength of 31.6 mA/meter.



KEMAR Directivity Indices plotted across the frequency range for the Sequel PDI BTE. KEMAR DI Values: 500 Hz = 4.5, 1000 Hz = 4.1, 2000 Hz = 4.1, 4000 Hz = 1.3

**Measurement Conditions and Recommendations**

The data for J13 Sequel are obtained and performance is expressed according to ANSI S3.22 (1996), Specifications of Hearing Aid Characteristics and IEC 118-0. The Starkey proprietary Real Time Analyzer comprises the basic test equipment. Data may be subject to change with product refinement.

J13 Sequel hearing instruments may be set to Test Mode within PFS by reading the hearing aid and choosing Set To Full On Gain (Test Mode) from the Activity drop down menu. Because of the adaptive signal processing capabilities of J13 Sequel DSP, measurements taken with the hearing aid outside of Test Mode may result in data that does not reflect the performance of the hearing aid with real world stimuli.

