

A312 AristaLite™ Digital Signal Processor

Sophisticated multichannel digital signal processing featuring expansion, noise management, and a newly designed open earmold well-suited for high frequency losses.



A312 AristaLite BTE
MultiMemory

A312 AristaLite BTE MM
with Push Button Cover

Feature Summary:

3 WDRC Channels with 2 adjustable crossover frequencies and 7 Band Equalizer to optimize fine-tuning of the response for the most unique hearing loss configurations.

Precision Performance in a miniature case design that does not require a custom ear impression.

Adaptive Feedback Management reduces feedback at use settings.

Adaptive Noise Management reduces gain of steady-state noise only in channels where noise is detected.

MultiChannel Expansion technology reduces circuit and low-level environmental noise typically associated with WDRC hearing aids.

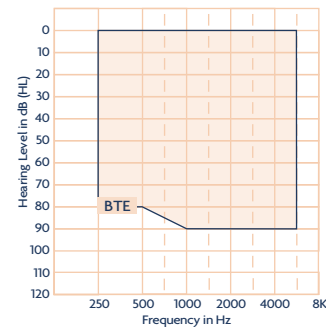
In-Situ Audiometry and Loudness Verification administer pure tones to establish threshold, UCL, or verify soft/loud inputs.

High Fidelity circuit design resulting in low distortion, increased bandwidth, low circuit noise, and expanded dynamic range, allowing higher input levels up to 105 dB SPL without distortion.

Programmable Indicator Tones for low battery and MultiMemory.

Programmable via NOAH compatible PFS, standalone PFS, or Pocket PFS.

Available in a wide variety of case colors.



Standard Features:

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

Programmable Telecoil turned on in any memory within PFS.

Volume Control. Optional disable VC within PFS.

M-O Switch.

Tamper Resistant Battery Door.

Filtered Pediatric Earhook.

Size 312 Battery.

Options:

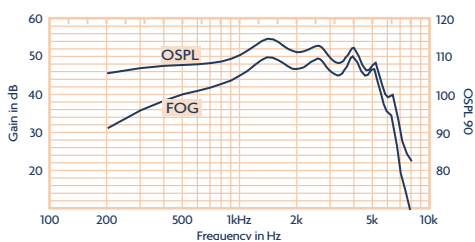
Tamper Resistant Volume Control (VC) Cover.

Tamper Resistant MultiMemory Push Button Cover.

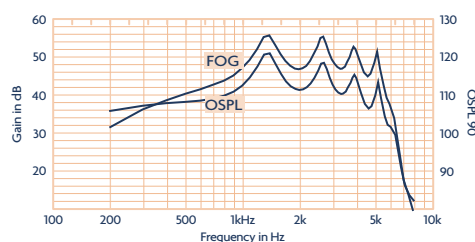


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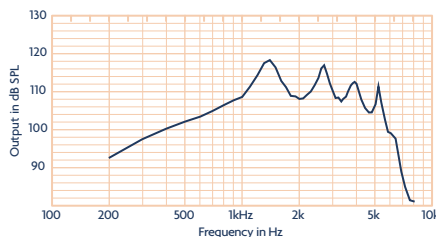
Peak OSPL90 (max dB)	ANSI 120	IEC 128
HFA OSPL90 (max dB)	115	122 dB SPL at RTF
Peak Gain (dB)	55	62
HFA Full On Gain (dB)	49	59 dB at RTF
Frequency Range (Hz)	200-6400	200-7200
Ref. Test Frequency (R.T.F. Hz)	N/A	1600
Ref. Test Gain (R.T.G. dB)	44	47
Harmonic Distortion		
500 Hz % max	5%	5%
800 Hz % max	5%	5%
1600 Hz % max	5%	5%
Equivalent Input Noise (dB SPL max)	<30 dB	<30 dB
(55-90 ANSI) (55-80 IEC) – Test Mode		
Attack Time	5 ms	5 ms
Release Time 0.1-s	50 ms	50 ms
Release Time 2.0-s	850 ms	850 ms
Induction Coil Sensitivity		
HFA SPLITS (ANSI 96) dB SPL	118	NA
MASL (IEC 118-1) dB SPL	NA	102
Battery Current (mA)	.8	.8
Idle (mA)	.7	.7
Estimated Battery Life for 16 hour day A312 Zinc Air (16 hour day)	12	12



BTE DAMPED: OSPL90 and Full On Gain Curves for the A312 AristaLite BTE with the default filtered (green 1500 ohm damper) earhook.



BTE UNDAMPED: OSPL90 and Full On Gain Curves for the A312 AristaLite BTE with an unfiltered earhook.



TELECOIL: Induction coil sensitivity at Full On Gain. Data obtained in RMS magnetic field strength of 31.6 mA/meter.

Measurement Conditions

The data for A312 AristaLite are obtained and performance is expressed according to ANSI S3.22 (1996) and IEC 60118-0 (1983), 60118-1 (1999), and 60118-2 (1997). Electro-acoustic data are measured on a Starkey proprietary Real Time Analyzer. Where applicable 2D polar plots and DI data are measured on a B&K PULSE 3560C in an anechoic chamber. Data may be subject to change with product refinement.

A312 AristaLite 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. Test data results may vary from these specifications due to adaptive signal processing effects and available measurement equipment.