

B13 DX

Advanced technology,
potentiometer-controlled
digital signal processing.



B13 DX BTE

Feature Summary:

Three Responses to choose from:
B13 DX, B13 AGC DX and B13 AGC-H DX.

Dual Time Constant Output
Compression Limiting designed to
prevent audible artifacts sometimes
associated with compression limiting.

Precise Potentiometer adjustments
ensure an accurate and consistent fit.

Volume Control.

Indicator Tone for low battery.

Potentiometers:

B13 DX

- Low Cut – Up to 20 dB attenuation at 500 Hz
- High Cut – Up to 20 dB attenuation at 4000 Hz

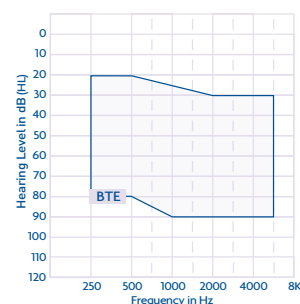
B13 AGC DX

- Low Cut – Up to 20 dB attenuation at 500 Hz
- Maximum Output – Up to 15 dB reduction in output

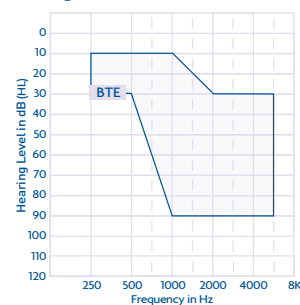
B13 AGC-H DX

- Maximum Output – Up to 15 dB reduction in output
- Crossover Frequency Control – Adjusts the crossover frequency from 4000 Hz to 800 Hz

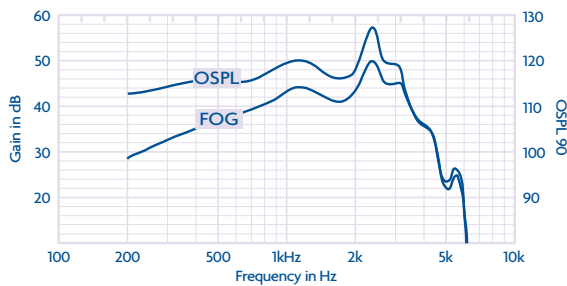
B13 DX and B13 AGC DX



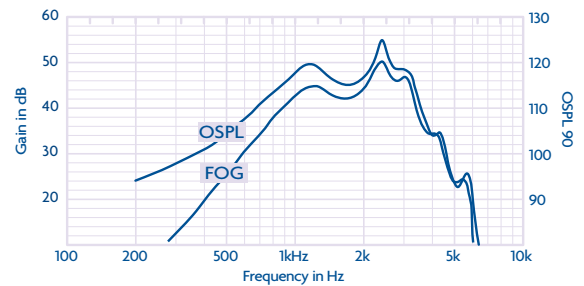
B13 AGC-H DX



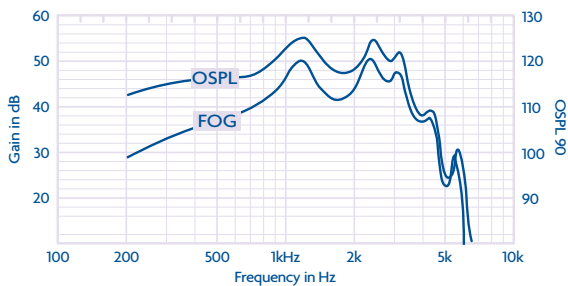
	<i>B13 DX</i>		<i>B13 AGC DX</i>		<i>B13 AGC-H DX</i>	
	ANSI	IEC	ANSI	IEC	ANSI	IEC
Peak OSPL 90 (dB SPL)	125	132	125	132	125	131
HFA OSPL 90 (dB SPL)	121	NA	121	NA	120	NA
RTF OSPL 90 (dB SPL)	NA	126	NA	126	NA	125
Peak Gain (dB)	50	58	50	58	50	60
HFA Full On Gain (dB)	46	NA	46	NA	49	NA
RTF Full On Gain (dB)	NA	49	NA	49	NA <td 54	
Frequency Range (kHz)	0.2-4.8	NA	0.2-4.8	NA	0.5-5.6	NA
Reference Test Frequency (kHz)	1.0, 1.6, 2.5	1.6	1.0, 1.6, 2.5	1.6	1.0, 1.6, 2.5	1.6
Reference Test Gain (dB)	44	42	44	42	42	47
Harmonic Distortion						
500 Hz	1%	1%	1%	1%	NA	NA
800 Hz	1%	1%	1%	1%	1%	1%
1600 Hz	1%	1%	1%	1%	1%	1%
Equivalent Input Noise (dB SPL)	22	25	22	25	27	30
(55 – 90 ANSI) (55 – 80 IEC) – Test Mode						
Attack Time (ms)	5	5	5	5	5	5
Release Time 0.1-s (ms)	210	35	210	35	45	400
Release Time 2.0-s (ms)	280	90	280	90	805	>1000
Induction Coil Sensitivity						
MASL (IEC 118-1) (dB SPL)	NA	NA	NA	NA	NA	NA
Battery Current (mA)	1.2	1.2	1.2	1.2	1.2	1.2
Idle (mA)	1.2	1.2	1.2	1.2	1.2	1.2
Estimated Battery Life for 16 hour day						
B3 Zinc Air (days)	15	15	15	15	15	15



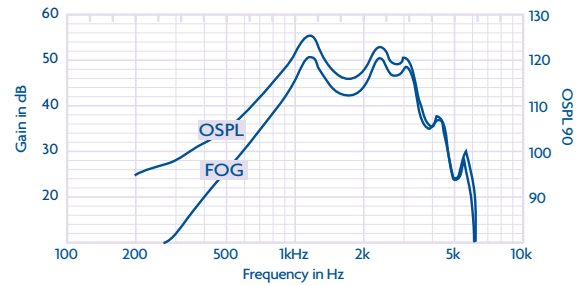
B13 DX and B13 AGC DX Responses: OSPL90 and Full On Gain with the white filtered (680 Ohm) earhook.



B13 AGC-H DX Response: OSPL90 and Full On Gain with the white filtered (680 Ohm) earhook.



B13 DX and B13 AGC DX Responses: OSPL90 and Full On Gain with the unfiltered earhook.



B13 AGC-H DX Response: OSPL90 and Full On Gain with the unfiltered earhook.

Measurement Conditions

The data for B13 DX BTE products 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.

B13 DX BTE 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.

