



# Pearl™



## Specifications

# Pearl™ 24

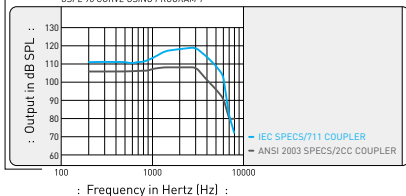
## Ear Simulator (IEC 118-0)

Max Output OSPL90 (P1)	119 dB SPL
Max Output (OSPL90), 1600Hz (P1)	117 dB SPL
Full - On Gain (P1)	58 dB
Full - On Gain, 1600 Hz (P1)	57 dB
Reference Test Gain (P2)	42 dB
Frequency Range (P2)	200 – 6400 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	0.6%
» 800 Hz	0.7%
» 1600 Hz	0.7%
Equivalent Input Noise*	23 dB SPL
Battery Current (P2)	1.10 mA
Attack Time (P2)	38 msec @ 2kHz
Recovery Time (P2)	38 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL

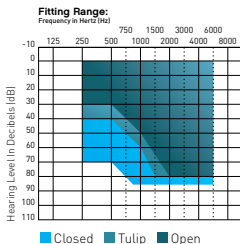
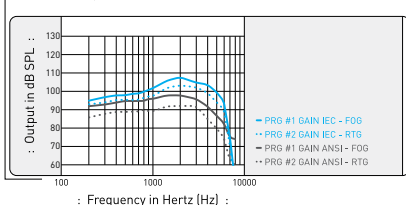
## 2cc Coupler (ANSI S3.22-2003)

Max Output (OSPL90) (P1)	109 dB SPL
HFA - OSPL90 (P1)	108 dB SPL
Peak Gain (P1)	48 dB
HFA Full - On Gain (P1)	47 dB
Reference Test Gain (P2)	31 dB
Frequency Range (P2)	200 – 6400 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	0.6%
» 800 Hz	0.7%
» 1600 Hz	0.7%
Equivalent Input Noise**	25 dB SPL
Battery Current (P2)	1.10 mA
Attack Time (P2)	38 msec @ 2kHz
Release Time (P2)	38 msec @ 2kHz

### OSPL 90 OSPL 90 CURVE USING PROGRAM 1



### FREQUENCY RESPONSE CURVES



[P1] = maximum compression program / [P2] = reference test gain program.

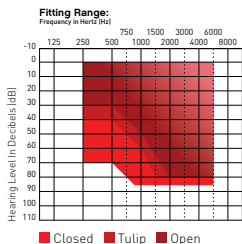
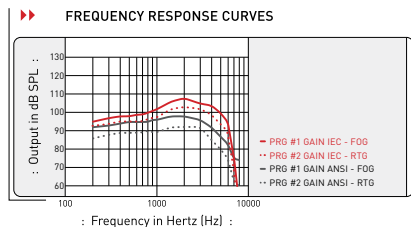
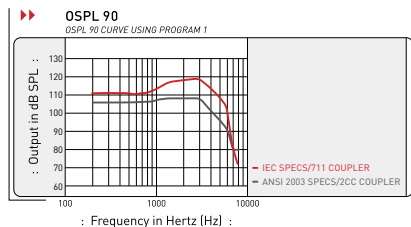
\*IEC test using an anechoic chamber with noise insulation >40dB from 20Hz to 1500Hz and >45dB above 1500Hz, and measurement microphone noise <25dB SPL over 20Hz to 20kHz.

\*\*ANSI test using a typical hearing aid test system with noise isolation of 45dB at 1kHz, and measurement microphone noise <50dB SPL over 200Hz to 8kHz.

EIN measured with low level expansion enabled.

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Ear Simulator (IEC 118-0)		2cc Coupler (ANSI S3.22-2003)	
Max Output OSPL90 (P1)	119 dB SPL	Max Output (OSPL90) (P1)	109 dB SPL
Max Output (OSPL90), 1600Hz (P1)	117 dB SPL	HFA - OSPL90 (P1)	108 dB SPL
Full - On Gain (P1)	58 dB	Peak Gain (P1)	48 dB
Full - On Gain, 1600 Hz (P1)	57 dB	HFA Full - On Gain (P1)	47 dB
Reference Test Gain (P2)	42 dB	Reference Test Gain (P2)	31 dB
Frequency Range (P2)	200 – 6400 Hz	Frequency Range (P2)	200 – 6400 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
» 500 Hz	0.6%	» 500 Hz	0.6%
» 800 Hz	0.7%	» 800 Hz	0.7%
» 1600 Hz	0.7%	» 1600 Hz	0.7%
Equivalent Input Noise*	23 dB SPL	Equivalent Input Noise**	25 dB SPL
Battery Current (P2)	1.10 mA	Battery Current (P2)	1.10 mA
Attack Time (P2)	38 msec @ 2kHz	Attack Time (P2)	38 msec @ 2kHz
Recovery Time (P2)	38 msec @ 2kHz	Release Time (P2)	38 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
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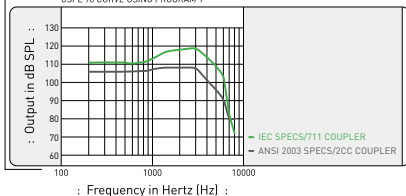
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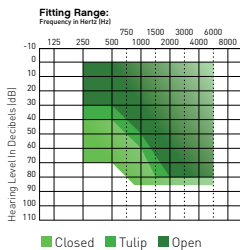
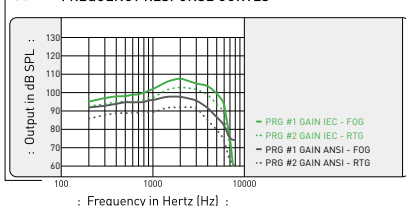
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### ▶▶ OSPL 90 OSPL 90 CURVE USING PROGRAM 1



### ▶▶ FREQUENCY RESPONSE CURVES



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