



In-the-Canal (ITC)



FEATURES:

- Memory Switch
- Programmable Telecoil
- Auto Telephone
- Volume Control with On/Off
- Directionality



Half-Shell (HS)

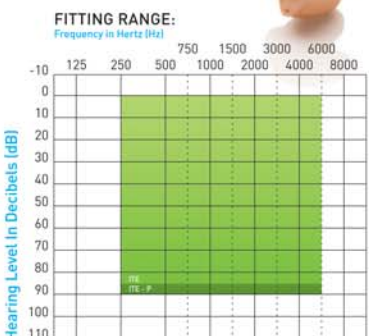


FEATURES:

- Memory Switch
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- Auto Telephone
- Volume Control with On/Off
- Directionality



In-the-Ear (ITE) & In-the-Ear Power (ITE-P)



FEATURES:

- Memory Switch
- Programmable Telecoil
- Auto Telephone
- Volume Control with On/Off
- Directionality

Ear Simulator (IEC 118-0)

Max Output OSPL90 (P1)	119 dB SPL
Max Output [OSPL90], 1600Hz (P1)	116 dB SPL
Full - On Gain (P1)	46 dB
Full - On Gain, 1600 Hz (P1)	46 dB
Reference Test Gain (P2)	36 dB
Frequency Range (P2)	200-5600 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2%
» 800 Hz	1%
» 1600 Hz	1%
Equivalent Input Noise*	23 dB SPL
Battery Current (P2)	1.2 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)	111 dB SPL
HFA - OSPL90 (P1)	106 dB SPL
Peak Gain (P1)	38 dB
HFA Full - On Gain (P1)	36 dB
Reference Test Gain (P2)	29 dB
Frequency Range (P2)	200-5600 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2%
» 800 Hz	1%
» 1600 Hz	1%
Equivalent Input Noise**	29 dB SPL
Battery Current (P2)	1.2 mA
Attack Time (P2)	38 msec @ 2kHz
Release Time (P2)	38 msec @ 2kHz

Ear Simulator (IEC 118-0)

Max Output OSPL90 (P1)	124 dB SPL
Max Output [OSPL90], 1600Hz (P1)	120 dB SPL
Full - On Gain (P1)	50 dB
Full - On Gain, 1600 Hz (P1)	49 dB
Reference Test Gain (P2)	39 dB
Frequency Range (P2)	200-5600 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2%
» 800 Hz	1%
» 1600 Hz	1%
Equivalent Input Noise*	23 dB SPL
Battery Current (P2)	1.3 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)	117 dB SPL
HFA - OSPL90 (P1)	111 dB SPL
Peak Gain (P1)	43 dB
HFA Full - On Gain (P1)	40 dB
Reference Test Gain (P2)	34 dB
Frequency Range (P2)	200-5600 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2%
» 800 Hz	1%
» 1600 Hz	1%
Equivalent Input Noise**	29 dB SPL
Battery Current (P2)	1.3 mA
Attack Time (P2)	38 msec @ 2kHz
Release Time (P2)	38 msec @ 2kHz

Ear Simulator (IEC 118-0)

Max Output OSPL90 (P1)	124/129 dB SPL
Max Output [OSPL90], 1600Hz (P1)	121/123 dB SPL
Full - On Gain (P1)	59/63 dB
Full - On Gain, 1600 Hz (P1)	56/61 dB
Reference Test Gain (P2)	45/48 dB
Frequency Range (P2)	200-5800/200-5400 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2/3%
» 800 Hz	1/2%
» 1600 Hz	1/1%
Equivalent Input Noise*	23 dB SPL
Battery Current (P2)	1.3/1.4 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)	117/120 dB SPL
HFA - OSPL90 (P1)	111/115 dB SPL
Peak Gain (P1)	48/52 dB
HFA Full - On Gain (P1)	45/50 dB
Reference Test Gain (P2)	34/38 dB
Frequency Range (P2)	200-5800/200-5400 Hz
Total Harmonic Distortion (P2)	
» 500 Hz	2/3%
» 800 Hz	1/2%
» 1600 Hz	1/1%
Equivalent Input Noise**	29 dB SPL
Battery Current (P2)	1.3/1.4 mA
Attack Time (P2)	38 msec @ 2kHz
Release Time (P2)	38 msec @ 2kHz

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

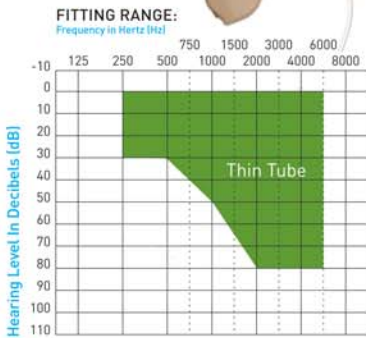
*IEC test using an anechoic chamber with noise insulation >40dB from 20Hz to 1500Hz and >45dB above 1500Hz, and measurement microphone noise <25dB SPL over 20Hz to 20kHz.

**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.



Open-Ear (BTE)



FEATURES:

- Memory Switch
- Programmable Telecoil
- Auto Telephone
- Volume Control
- Directionality
- Integrated On/Off in Battery Door
- Thin Tube



Behind-the-Ear (BTE)



FEATURES:

- Memory Switch
- Programmable Telecoil
- Auto Telephone
- Volume Control
- Directionality (Standard)
- Integrated On/Off in Battery Door
- Direct Audio Input Capability

Ear Simulator (IEC 118-0)	2cc coupler (ANSI S3.22-2003)
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Max Output OSPL90 (P1)	118 dB SPL	Max Output [OSPL90] (P1)	106 dB SPL
Max Output (OSPL90), 1600Hz (P1)	114 dB SPL	HFA - OSPL90 (P1)	102 dB SPL
Full - On Gain (P1)	47 dB	Peak Gain (P1)	35 dB
Full - On Gain, 1600 Hz (P1)	46 dB	HFA Full - On Gain (P1)	34 dB
Reference Test Gain (P2)	46 dB	Reference Test Gain (P2)	25 dB
Frequency Range (P2)	200 - 5600 Hz	Frequency Range (P2)	200 - 5600 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
» 500 Hz	2.5%	» 500 Hz	2.5%
» 800 Hz	1.5%	» 800 Hz	1.5%
» 1600 Hz	1.0%	» 1600 Hz	1.0%
Equivalent Input Noise*	23 dB SPL	Equivalent Input Noise**	29 dB SPL
Battery Current (P2)	1.4 mA	Battery Current (P2)	1.4 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		
EMC IRIL (1400 - 2000 MHz Peak)	< 40 dB SPL		

Ear Simulator (IEC 118-0)	2cc coupler (ANSI S3.22-2003)
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Max Output OSPL90 (P1)	132 dB SPL	Max Output [OSPL90] (P1)	130 dB SPL
Max Output (OSPL90), 1600Hz (P1)	129 dB SPL	HFA - OSPL90 (P1)	124 dB SPL
Full - On Gain (P1)	69 dB	Peak Gain (P1)	63 dB
Full - On Gain, 1600 Hz (P1)	68 dB	HFA Full - On Gain (P1)	60 dB
Reference Test Gain (P2)	54 dB	Reference Test Gain (P2)	45 dB
Frequency Range (P2)	200-5100 Hz	Frequency Range (P2)	200-5100 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
» 500 Hz	4%	» 500 Hz	4%
» 800 Hz	2%	» 800 Hz	2%
» 1600 Hz	1%	» 1600 Hz	1%
Equivalent Input Noise*	23 dB SPL	Equivalent Input Noise**	29 dB SPL
Battery Current (P2)	1.5 mA	Battery Current (P2)	1.5 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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 EIN measured with low level expansion enabled.