

Inteo IN-19

Digital Power BTE with Integrated signal processing™ and Dynamic Integrator™



Inteo IN-19 with unique features including:

Dynamic Integrator™

- Integration and storage of knowledge

High definition sound analysis

- Sound Diary
- Speech and noise tracer
- S/N ratio tracer
- Spatial feedback tracer
- Spatial sound tracer

High definition sound processing

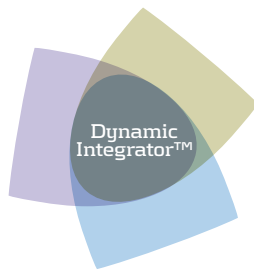
- High definition Locator
- Multi-directional active feedback cancelling
- Audibility Extender
- Speech Enhancer
- Enhanced Dynamic Range Compression

High definition system optimiser

- Battery monitor
- EcoTech II
- Multi-point microphone matching
- DAI auto-detect

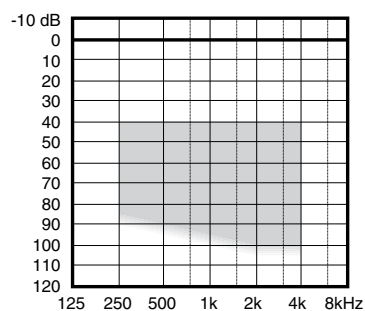
Technology

Sampling frequency	2 MHz
Complexity (Gates)	1 million
IC technology	0.13μ



Inteo is the first hearing aid on the market to introduce Integrated signal processing™.

Suggested fitting range

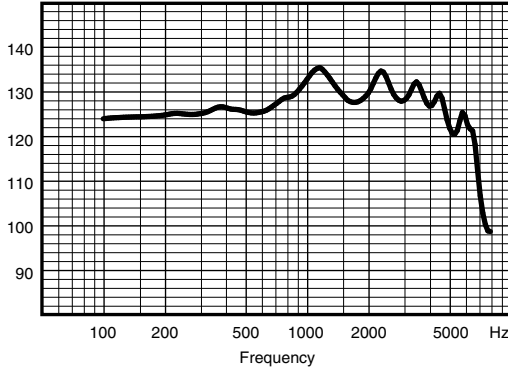


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Maximum output - Ear simulator

IEC 60118-0

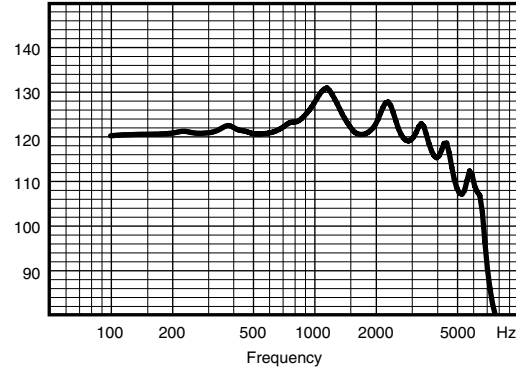
Output dB SPL



Maximum output - 2cc coupler

IEC 60118-7 / ANSI S3.22 (2003)

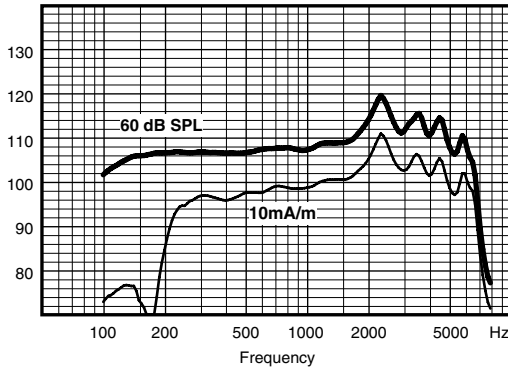
Output dB SPL



Output - Ear simulator

IEC 60118-0

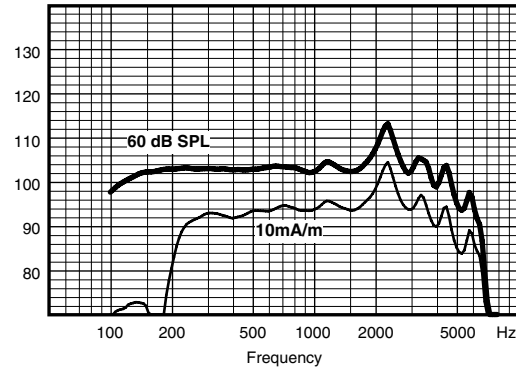
Output dB SPL



Output - 2cc coupler

IEC 60118-7 / ANSI S3.22 (2003)

Output dB SPL



Technical data

Typical data obtained through standard pure tone measurements.
Hearing aid set to linear test mode.

		IEC 60118-0	IEC 60118-7	ANSI S3.22 (2003)
OSPL90	1600 Hz	128 dB SPL	121 dB SPL	121 dB SPL
	Peak	136 dB SPL	131 dB SPL	131 dB SPL
	Average	129 dB SPL	124 dB SPL	124 dB SPL
Acoustic output (Input 60 dB SPL)	1600 Hz	109 dB SPL	103 dB SPL	103 dB SPL
	Peak	120 dB SPL	113 dB SPL	113 dB SPL
	Average	110 dB SPL	104 dB SPL	104 dB SPL
Max. gain (special measurement)	1600 Hz	66 dB	58 dB	58 dB
	Peak	73 dB	66 dB	66 dB
	Average	66 dB	60 dB	59 dB
Telecoil output (Input 10 mA/m)	1600 Hz	101 dB SPL	94 dB SPL	94 dB SPL
	Peak	111 dB SPL	105 dB SPL	105 dB SPL
	Average	101 dB SPL	95 dB SPL	96 dB SPL
Frequency range		100 Hz - 6950 Hz	100 Hz - 6600 Hz	100 Hz - 6800 Hz
Harmonic distortion (Input 70 dB SPL)	500 Hz	2%	1.8%	1.8%
	800 Hz	0.7%	0.6%	0.6%
	1600 Hz	0.1%	0.1%	0.1%
Equivalent input noise		23 dB SPL	23 dB SPL	23 dB SPL
Battery drain (stand by)		0.75 mA	0.75 mA	0.75 mA
Battery drain		0.75 mA	0.75 mA	0.75 mA
Battery life / hours (Type 13 Zn-Air, 270 mAh)		365 (>285)	365 (>285)	360 (>285)
IRIL, IEC 60118-13 (3 / 2 V/m)			-27/-9 dB SPL	

