

ADVANCED HEARING SOLUTION

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Insio Nx

Technical Data

Made for

 iPhone | iPad | iPod

7Nx

5Nx

3Nx

2Nx

1Nx

ITE

118/55

- 55 dB / 118 dB SPL (2 ccm coupler)
- 65 dB / 128 dB SPL (ear simulator)

124/65

- 65 dB / 124 dB SPL (2 ccm coupler)
- 75 dB / 134 dB SPL (ear simulator)

ITC

113/50

- 50 dB / 113 dB SPL (2 ccm coupler)
- 61 dB / 124 dB SPL (ear simulator)

118/55

- 55 dB / 118 dB SPL (2 ccm coupler)
- 65 dB / 128 dB SPL (ear simulator)

124/65

- 65 dB / 124 dB SPL (2 ccm coupler)
- 75 dB / 133 dB SPL (ear simulator)

CIC

113/50

- 50 dB / 113 dB SPL (2 ccm coupler)
- 64 dB / 124 dB SPL (ear simulator)

118/55

- 55 dB / 118 dB SPL (2 ccm coupler)
- 65 dB / 128 dB SPL (ear simulator)

124/65

- 65 dB / 124 dB SPL (2 ccm coupler)
- 75 dB / 135 dB SPL (ear simulator)

IIC

113/50

- 50 dB / 113 dB SPL (2 ccm coupler)
- 60 dB / 123 dB SPL (ear simulator)

Insio Nx ITE | Technical Data

Type	118/55		124/65	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
OSPL 90 at 1.6 kHz	–	119 dB SPL	–	128 dB SPL
OSPL 90 (Peak)	118 dB SPL	128 dB SPL	124 dB SPL	134 dB SPL
HFA-OSPL 90	112 dB SPL	–	119 dB SPL	–
Gain				
FOG at 1.6 kHz	–	56 dB	–	68 dB
FOG (Peak)	55 dB	65 dB	65 dB	75 dB
HFA-FOG	48 dB	–	60 dB	–
Reference test gain	35 dB	44 dB	42 dB	53 dB
Frequency, noise and directivity				
Frequency range 7Nx	100-8000 Hz	100-8500 Hz	100-6000 Hz	100-6100 Hz
5Nx / 3Nx / 2Nx / 1Nx	100-7700 Hz	100-8000 Hz	100-6000 Hz	100-6000 Hz
Equivalent input noise	20 dB SPL	21 dB SPL	20 dB SPL	21 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 2 / 2 / 2 %	3 / 3 / 3 / – %	3 / 3 / 2 / 2 %	5 / 7 / 3 / – %
Tinnitus noiser broadband	75 dB	–	80 dB	–
AI-DI	5.2 dB		5.2 dB	
Latency	< 15 ms		< 15 ms	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	84 dB SPL	–	96 dB SPL
HFA MASL (1 mA/m)	79 dB SPL	–	90 dB SPL	–
HFA SPLITS (left/right)	96 / 96 dB SPL	–	104 / 104 dB SPL	–
RSETS (left/right)	2 / 2 dB	–	2 / 2 dB	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.3 mA	1.3 mA	1.3 mA	1.3 mA
Battery life (cell zinc air) Type 312 (without streaming)	~ 100 h		~ 100 h	
Battery life (cell zinc air) Type 312 (incl. 5 h streaming)	~ 70 h		~ 70 h	
Battery life (rechargeable)	–		–	
IRIL IEC 60118-13:2016 Ed. 4.0				
700-960 MHz (rating)	user		user	
1400-2000 MHz (rating)	user		user	
2000-2700 MHz (rating)	user		user	
ANSI C63.19-2011				
800-950 MHz (rating)	M4 / T4		M4 / T4	
1600-2500 MHz (rating)	M4 / T4		M4 / T4	

Insio Nx ITC | Technical Data

Type	113/50		118/55		124/65	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
OSPL 90 at 1.6 kHz	–	118 dB SPL	–	119 dB SPL	–	127 dB SPL
OSPL 90 (Peak)	113 dB SPL	124 dB SPL	118 dB SPL	128 dB SPL	124 dB SPL	133 dB SPL
HFA-OSPL 90	108 dB SPL	–	111 dB SPL	–	119 dB SPL	–
Gain						
FOG at 1.6 kHz	–	53 dB	–	53 dB	–	65 dB
FOG (Peak)	50 dB	61 dB	55 dB	65 dB	65 dB	75 dB
HFA-FOG	45 dB	–	47 dB	–	60 dB	–
Reference test gain	31 dB	43 dB	34 dB	44 dB	42 dB	52 dB
Frequency, noise and directivity						
Frequency range 7Nx 5Nx / 3Nx / 2Nx / 1Nx	100-9000 Hz 100-8000 Hz	150-9500 Hz 150-8000 Hz	100-8000 Hz 100-7800 Hz	110-9000 Hz 120-8000 Hz	100-6300 Hz 100-6300 Hz	100-6800 Hz 100-6800 Hz
Equivalent input noise	20 dB SPL	20 dB SPL	21 dB SPL	21 dB SPL	21 dB SPL	21 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	3 / 3 / 3 / 3 %	4 / 5 / 5 / – %	2 / 2 / 2 / 2 %	3 / 3 / 3 / – %	3 / 3 / 2 / 2 %	5 / 7 / 3 / – %
Tinnitus noiser broadband	68 dB	–	75 dB	–	80 dB	–
AI-DI	4.8 dB		4.8 dB		4.8 dB	
Latency	< 15 ms		< 15 ms		< 15 ms	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	74 dB SPL	–	85 dB SPL	–	98 dB SPL
HFA MASL (1 mA/m)	65 dB SPL	–	79 dB SPL	–	91 dB SPL	–
HFA SPLITS (left/right)	94 / 94 dB SPL	–	97 / 97 dB SPL	–	104 / 104 dB SPL	–
RSETS (left/right)	3 / 3 dB	–	3 / 3 dB	–	3 / 3 dB	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.3 mA	1.3 mA	1.3 mA	1.3 mA	1.3 mA	1.3 mA
Battery life (cell zinc air) Type 312 (without streaming)	~ 100 h		~ 100 h		~ 100 h	
Battery life (cell zinc air) Type 312 (incl. 5 h streaming)	~ 70 h		~ 70 h		~ 70 h	
Battery life (rechargeable)	–		–		–	
IRIL IEC 60118-13:2016 Ed. 4.0						
700-960 MHz (rating)	user		user		user	
1400-2000 MHz (rating)	user		user		user	
2000-2700 MHz (rating)	user		user		user	
ANSI C63.19-2011						
800-950 MHz (rating)	M4 / T4		M4 / T4		M4 / T4	
1600-2500 MHz (rating)	M4 / T3		M4 / T3		M4 / T3	

Insio Nx CIC | Technical Data

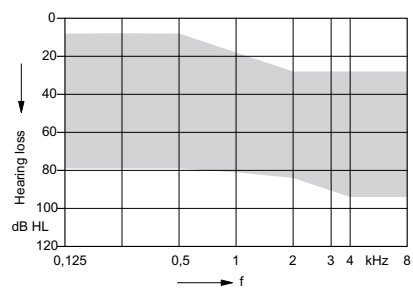
Type	113/50		118/55		124/65	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
OSPL 90 at 1.6 kHz	–	116 dB SPL	–	119 dB SPL	–	127 dB SPL
OSPL 90 (Peak)	113 dB SPL	124 dB SPL	118 dB SPL	128 dB SPL	124 dB SPL	135 dB SPL
HFA-OSPL 90	108 dB SPL	–	112 dB SPL	–	119 dB SPL	–
Gain						
FOG at 1.6 kHz	–	51 dB	–	55 dB	–	66 dB
FOG (Peak)	50 dB	60 dB	55 dB	65 dB	65 dB	75 dB
HFA-FOG	45 dB	–	48 dB	–	59 dB	–
Reference test gain	32 dB	41 dB	35 dB	45 dB	42 dB	51 dB
Frequency, noise and directivity						
Frequency range 7Nx 5Nx / 3Nx / 2Nx / 1Nx	100-10000 Hz 100-8100 Hz	120-10000 Hz 150-8100 Hz	100-10000 Hz 100-8000 Hz	100-10000 Hz 100-8000 Hz	100-9200 Hz 100-8100 Hz	100-9200 Hz 100-8100 Hz
Equivalent input noise	18 dB SPL	18 dB SPL	18 dB SPL	18 dB SPL	18 dB SPL	19 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	3 / 3 / 2 / 1 %	4 / 5 / 4 / – %	2 / 2 / 2 / 1 %	2 / 2 / 2 / – %	2 / 2 / 1 / 1 %	3 / 4 / 2 / – %
Tinnitus noiser broadband	70 dB	–	75 dB	–	80 dB	–
AI-DI	–		–		–	
Latency	< 15 ms		< 15 ms		< 15 ms	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	–	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–	–	–
RSETS (left/right)	–	–	–	–	–	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.3 mA	1.3 mA	1.3 mA	1.3 mA	1.3 mA	1.3 mA
Battery life (cell zinc air) Type 10	~ 55 h		~ 55 h		~ 55 h	
Battery life (rechargeable)	–		–		–	
IRIL IEC 60118-13:2016 Ed. 4.0						
700-960 MHz (rating)	user		user		user	
1400-2000 MHz (rating)	user		user		user	
2000-2700 MHz (rating)	user		user		user	
ANSI C63.19-2011						
800-950 MHz (rating)	M4		M4		M4	
1600-2500 MHz (rating)	M4		M4		M4	

Insio Nx IIC | Technical Data

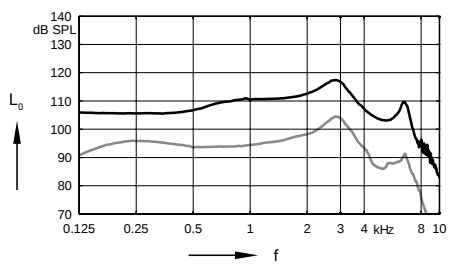
Type	113/50	
	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL 90 at 1.6 kHz	–	116 dB SPL
OSPL 90 (Peak)	113 dB SPL	123 dB SPL
HFA-OSPL 90	109 dB SPL	–
Gain		
FOG at 1.6 kHz	–	53 dB
FOG (Peak)	50 dB	60 dB
HFA-FOG	46 dB	–
Reference test gain	32 dB	41 dB
Frequency, noise and directivity		
Frequency range 7Nx 5Nx / 3Nx / 2Nx / 1Nx	100-7900 Hz 100-7900 Hz	150-8900 Hz 150-8100 Hz
Equivalent input noise	21 dB SPL	21 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 2 / 2 / 1 %	3 / 4 / 3 / – %
Tinnitus noiser broadband	70 dB	–
AI-DI	–	
Latency	< 15 ms	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	–
HFA MASL (1 mA/m)	–	–
HFA SPLITS (left/right)	–	–
RSETS (left/right)	–	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.3 mA	1.3 mA
Battery life (cell zinc air) Type 10	~ 55 h	
Battery life (rechargeable)	–	
IRIL IEC 60118-13:2016 Ed. 4.0		
700-960 MHz (rating)	user	
1400-2000 MHz (rating)	user	
2000-2700 MHz (rating)	user	
ANSI C63.19-2011		
800-950 MHz (rating)	M4	
1600-2500 MHz (rating)	M4	

Insio Nx ITE | Basic Data

118/55

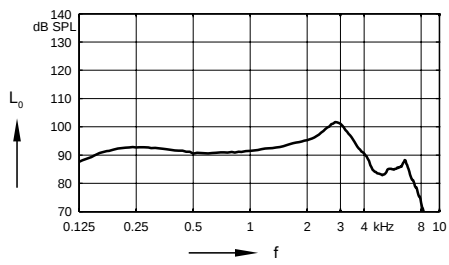


2 ccm coupler



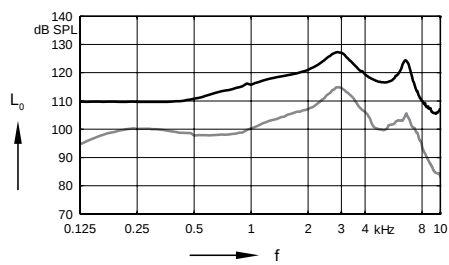
Max. Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



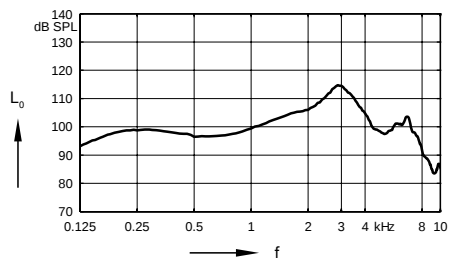
Frequency response
($L_i = 60$ dB)

Ear simulator



Max. Output sound pressure level
($L_i = 90$ dB)

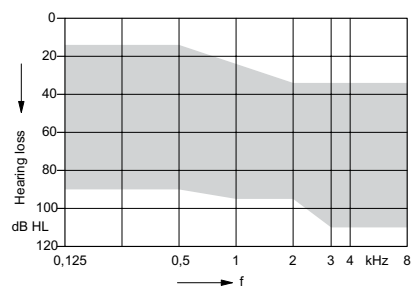
Full on gain
($L_i = 50$ dB)



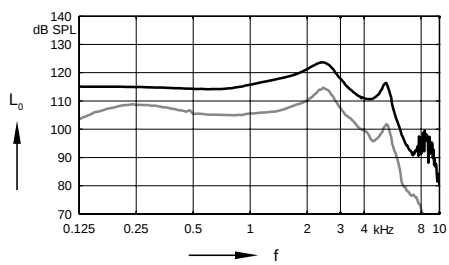
Basic acoustic response
($L_i = 60$ dB)

Insio Nx ITE | Basic Data

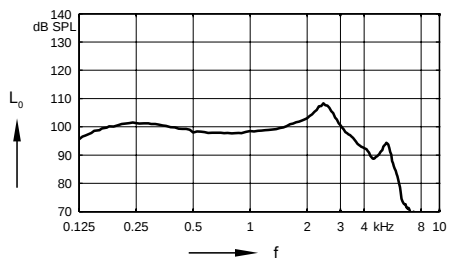
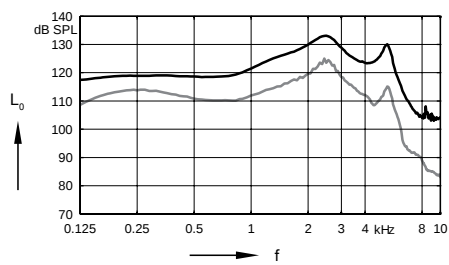
124/65



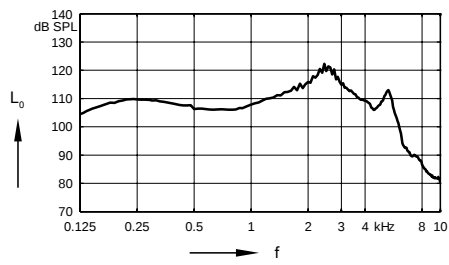
2 ccm coupler



Ear simulator



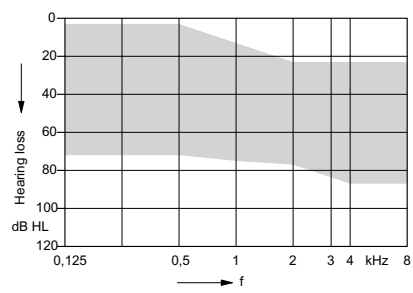
Frequency response
($L_i = 60$ dB)



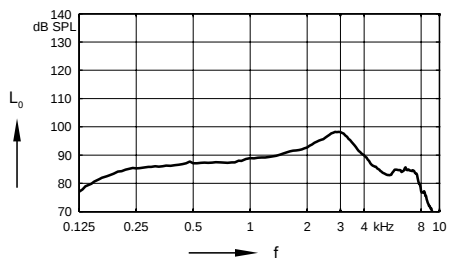
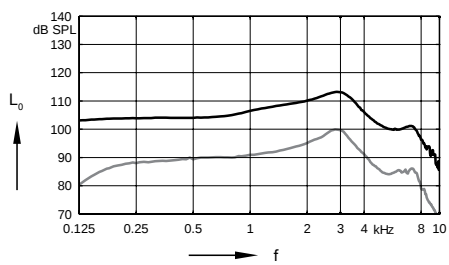
Basic acoustic
response
($L_i = 60$ dB)

Insio Nx ITC | Basic Data

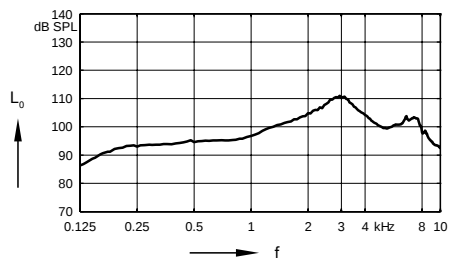
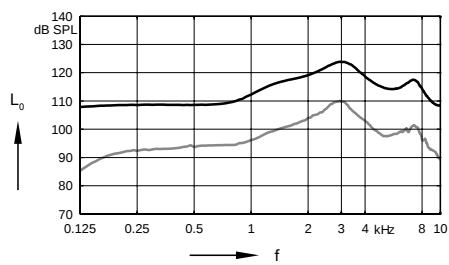
113/50



2 ccm coupler

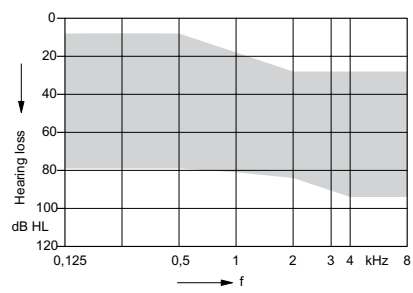


Ear simulator

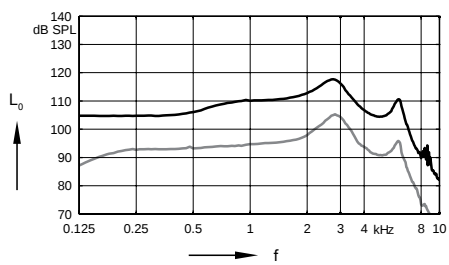


Insio Nx ITC | Basic Data

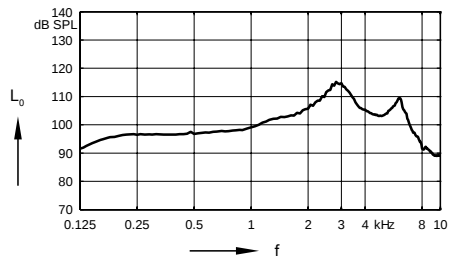
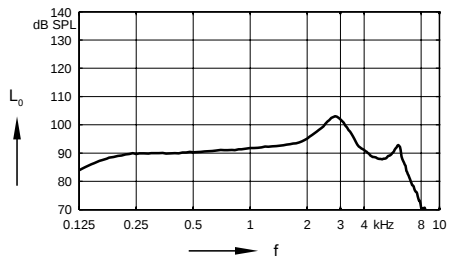
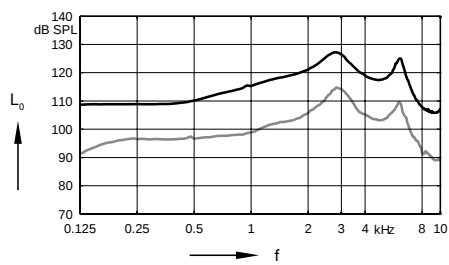
118/55



2 ccm coupler

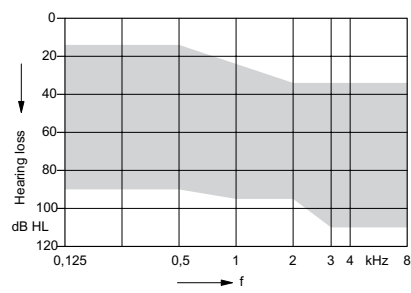


Ear simulator

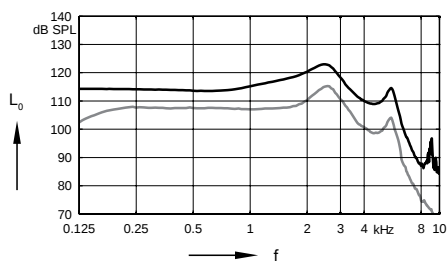


Insio Nx ITC | Basic Data

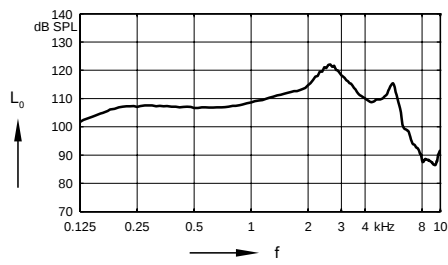
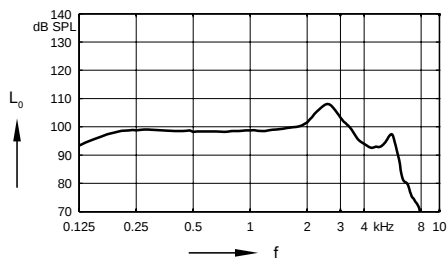
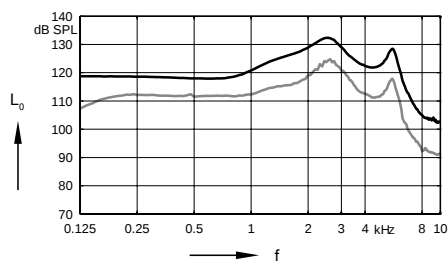
124/65



2 ccm coupler

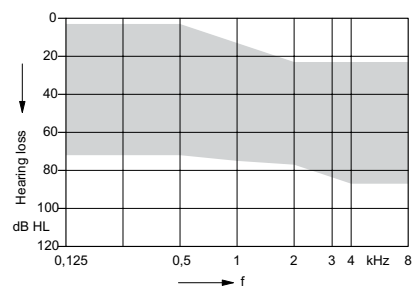


Ear simulator

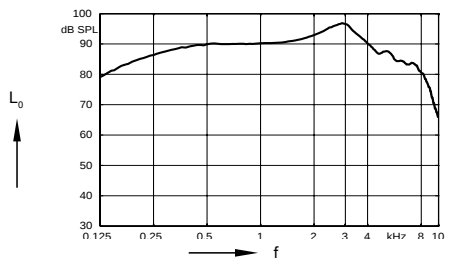
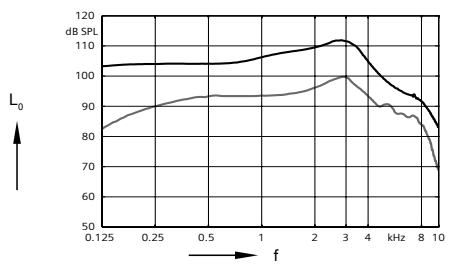


Insio Nx CIC | Basic Data

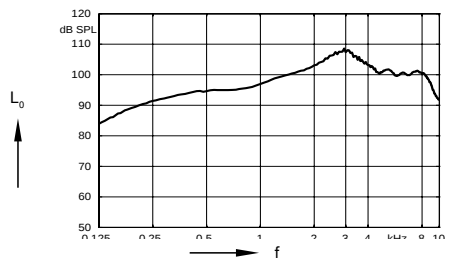
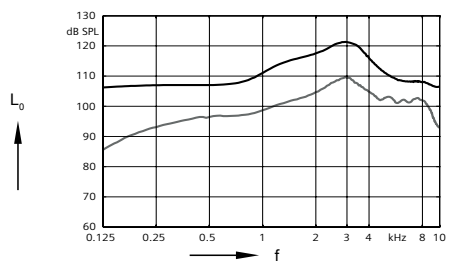
113/50



2 ccm coupler

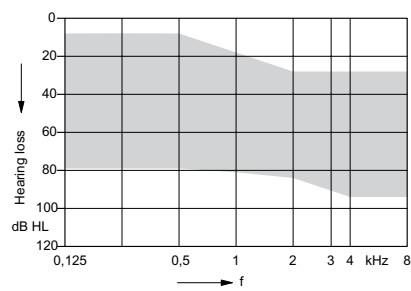


Ear simulator

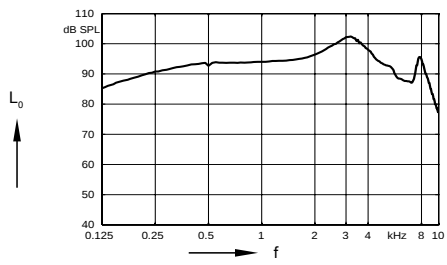
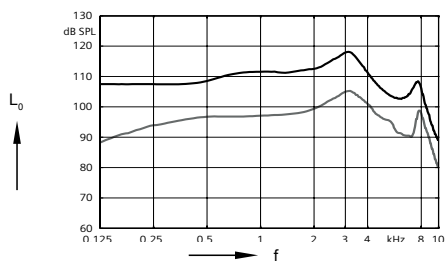


Insio Nx CIC | Basic Data

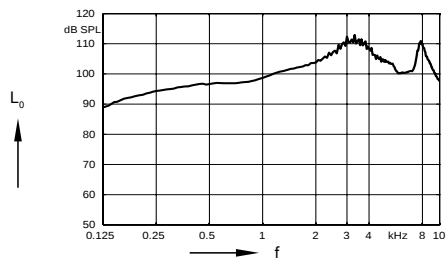
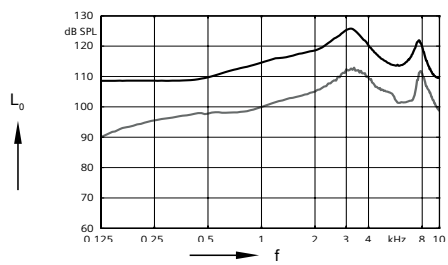
118/55



2 ccm coupler

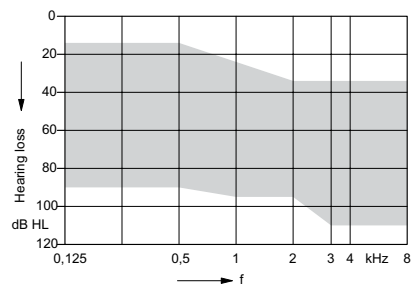


Ear simulator

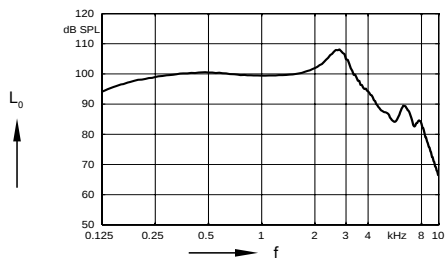
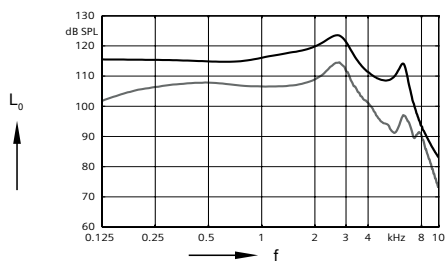


Insio Nx CIC | Basic Data

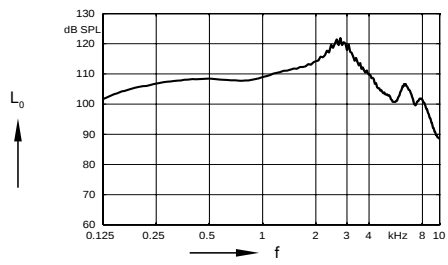
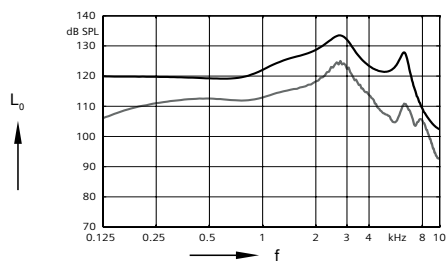
124/65



2 ccm coupler

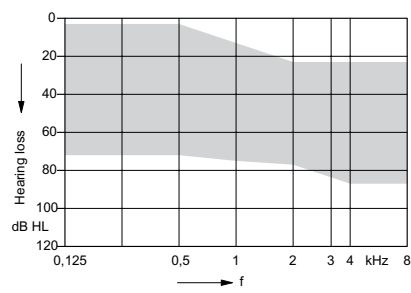


Ear simulator

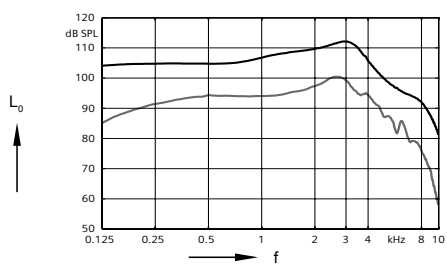


Insio Nx IIC | Basic Data

113/50

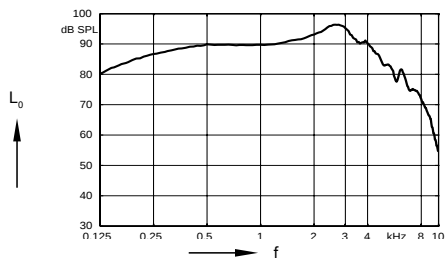


2 ccm coupler



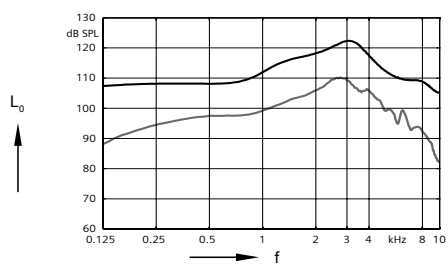
Max. Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



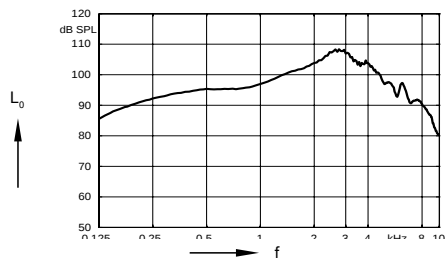
Frequency response
($L_i = 60$ dB)

Ear simulator



Max. Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



Basic acoustic response
($L_i = 60$ dB)

Insio Nx | Features and Accessories

	ITE / ITC				
	7Nx	5Nx	3Nx	2Nx	1Nx
Audiology					
Own Voice Processing (OVP) ¹⁾	—	—	—	—	—
3D Classifier	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■	—	—
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Sound Clarity					
HD Spatial	●	●	●	—	—
Extended dynamic range	●	●	●	●	●
Extended bandwidth	●	—	—	—	—
EchoShield	●	—	—	—	—
HD Music (presets)	3	1	—	—	—
eWindScreen binaural ^{1) 2)}	●	●	—	—	—
eWindScreen	●	●	●	●	—
Noise Management					
Speech and noise management (steps)	7	5	3	3	1
SoundSmoothing (steps)	3	3	1	1	—
Directional speech enhancement (steps)	3	1	—	—	—
Feedback cancellation	●	●	●	●	●
Speech Quality					
Directionality (channels) ⁶⁾	48	32	24	16	16
Binaural OneMic Directionality ^{1) 5)}	○	○	○	—	—
Narrow Directionality ¹⁾	●	●	●	—	—
Spatial SpeechFocus ^{1) 3)}	●	●	—	—	—
SpeechFocus	●	●	—	—	—
TwinPhone ¹⁾	●	●	●	—	—
Frequency compression	●	●	●	●	●
Direct Streaming					
Made for iPhone	○	○	○	○	○
Adaptive Streaming Volume ⁴⁾	○	○	○	○	○
Tinnitus					
Notched Noise Therapy	●	●	●	—	—
Tinnitus noiser	●	●	●	●	—
Fitting					
Smart Optimizer and Data Logging	●	●	●	●	●
Acclimatization manager	●	●	●	●	●
Performance Guide	●	●	●	●	●
Insitugram	●	●	●	●	●
Learning (classes)	6	3	1	—	—
TeleCare					
Basic Remote Tuning	●	●	●	●	●
Full Live Remote Tuning	○	○	○	○	○

Insio Nx | Features and Accessories

	CIC / IIC				
	7Nx	5Nx	3Nx	2Nx	1Nx
Audiology					
Own Voice Processing (OVP) ¹⁾	—	—	—	—	—
3D Classifier	—	—	—	—	—
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Sound Clarity					
HD Spatial	—	—	—	—	—
Extended dynamic range	●	●	●	●	●
Extended bandwidth	●	—	—	—	—
EchoShield	●	—	—	—	—
HD Music (presets)	3	1	—	—	—
eWindScreen binaural ^{1) 2)}	—	—	—	—	—
eWindScreen	●	●	●	●	—
Noise Management					
Speech and noise management (steps)	7	5	3	3	1
SoundSmoothing (steps)	3	3	1	1	—
Directional speech enhancement (steps)	1	1	—	—	—
Feedback cancellation	●	●	●	●	●
Speech Quality					
Directionality (channels) ⁶⁾					
Binaural OneMic Directionality ^{1) 5)}	●	●	●	—	—
Narrow Directionality ¹⁾	—	—	—	—	—
Spatial SpeechFocus ^{1) 3)}	—	—	—	—	—
SpeechFocus	—	—	—	—	—
TwinPhone ¹⁾	●	●	●	—	—
Frequency compression	●	●	●	●	●
Direct Streaming					
Made for iPhone	—	—	—	—	—
Adaptive Streaming Volume ⁴⁾	—	—	—	—	—
Tinnitus					
Notched Noise Therapy	●	●	●	—	—
Tinnitus noiser	●	●	●	●	—
Fitting					
Smart Optimizer and Data Logging	●	●	●	●	●
Acclimatization manager	●	●	●	●	●
Performance Guide	●	●	●	●	●
Insitugram	●	●	●	●	●
Learning (classes)	6	3	1	—	—
TeleCare					
Basic Remote Tuning	●	●	●	●	●
Full Live Remote Tuning	—	—	—	—	—

Insio Nx | Features and Accessories

	ITE / ITC (with BT)	ITE / ITC (without BT) 7Nx / 5Nx / 3Nx / 2Nx / 1Nx	CIC	IIC
Style Specific Features				
Ingress Protection Rating	—	—	—	—
Telecoil	—	○	—	—
Charging contacts	—	—	—	—
Battery Size	312	312	10	10
Battery door on/off function	●	●	●	●
Nanocoated housing	—	—	—	—
e2e wireless 3.0	●	○	○	●
User controls coupling via e2e	●	●	●	●
Wireless programming	●	○	○	●
Instrument configurations				
Flat cover	—	—	—	—
Rotary volume control	—	○	—	—
Push button	●	○	○	—
Rocker switch	—	—	—	—
Color conversion kit	—	—	—	—
Battery door – direct audio input	—	—	—	—
Battery door – child lock	—	—	—	—
Small earhook	—	—	—	—
Programming Accessories				
ConnexxAir / ConnexxLink	— / —	● / —	● / —	● / —
NoahLink wireless	●	—	—	—
Programming adapter / cable	Flex connector	Flex connector	Flex connector	—
Accessories				
miniPocket	○	○	○	○
CROS Silk Nx ⁷⁾	—	○	○	○
CROS Pure 312 Nx ⁷⁾	○	—	—	—
StreamLine TV	○	—	—	—
StreamLine Mic	○	—	—	—
App				
Signia App	○	○	○	○

¹⁾ req. bilateral fitting

²⁾ not available in the universal program on 5Nx

³⁾ for 5Nx in Stroll Program or with Spatial Configurator only

⁴⁾ streaming only

⁵⁾ req. single mic instruments

⁶⁾ req. directional microphone

⁷⁾ for 7Nx / 5Nx / 3Nx available only

● available ○ optional — not available

■ ■ ■ ■ ■ highest feature performance

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- ▶ Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- ▶ Figures representing Equivalent Input Noise incorporate a moderate expansion.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil.
- ▶ Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- ▶ The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- ▶ The battery life is based on first fit settings using 60% of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
- ▶ Extended frequency range up to 12 kHz for 7Nx devices only.

Made for

 iPhone | iPad | iPod

“Made for iPod”, “Made for iPhone”, and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.