

Beltone Legend™



Product Description

Mic-in-Helix (MIH) hearing instruments with 312/13 batteries are available in 4 power levels: Low (LP), Medium (MP), High (HP) and Ultra (UP).

Sound processing done by Beltone's Dual Processing platform for optimum algorithm execution and outstanding sound quality.

3rd generation 2.4 GHz wireless technology features Bluetooth® 4.0 allowing the hearing instrument to connect to iPhone®, iPad® and iPod touch® as well as Beltone's complete line of Direct Line® accessories. This is in addition to direct ear to ear communication with wireless MIH hearing instruments.

The MIH models feature options for push button, volume control, and telecoil.

All custom hearing instrument faceplates and associated components are HPF⁶⁰ NanoBlock-coated for maximum durability.

Model	LND17MIH*	LND9MIH**	LND6MIH***
Device Features			
Battery size	312 and 13		
Receiver Power levels	LP, MP, HP & UP		
Colors available	5		
Functional Features			
Fully Flexible Programs	4	4	4
Synchronized Push Button	●	●	●
Synchronized Volume Control	●	●	●
Delayed Activation	●	●	●
Auto Phone	●	●	●
Asymmetric Phone Handling	●	●	●
Ear to Ear Communication	●	●	●
Direct audio streaming (Made for iPhone)	●	●	●
Beltone Direct TV Link 2, myPAL, Phone Link 2 & Remote Control 2	●	●	●
Beltone SmartRemote (Phone Link 2 is required)	●	●	●
Beltone HearPlus	●	●	●
Audiological Features			
Curvilinear Rapid - number of channels	17	14	12
Smart Gain Pro	●		
Smart Gain		●	
Sound Cleaner	●	⊙	○
Silencer	●	⊙	○
Wind Noise Reduction	●	⊙	○
Sound Shifter	●	●	●
Low Frequency Boost (Only UP)	●	●	○
Feedback Eraser with WhistleStop	●		
Feedback Eraser		⊙	○
- AFX Music Mode	●	●	●
Synchronized Satisfy	●	●	●
Amplification Strategy WDRC	●	●	●
Amplification Strategy WDRC/Semi-linear/Linear(Only UP)	●	●	○
Tinnitus Breaker Pro	●	●	●
Fitting Features			
Fitting Software SolusPro 1.8 or higher	●	●	●
Safeguard Feedback Control	●	●	●
Satisfaction Journal	●	●	●
Wireless Fitting with Airlink2™	●	●	●
*LND17MIH-W UP, LND17MIH-W HP, LND17MIH-W MP, LND17MIH-W LP, LND17MIH UP, LND17MIH HP, LND17MIH MP, LND17MIH LP			
**LND9MIH-W UP, LND9MIH-W HP, LND9MIH-W MP, LND9MIH-W LP, LND9MIH UP, LND9MIH HP, LND9MIH MP, LND9MIH LP			
***LND6MIH-W UP, LND6MIH-W HP, LND6MIH-W MP, LND6MIH-W LP, LND6MIH UP, LND6MIH HP, LND6MIH MP, LND6MIH LP			

○ Basic Settings

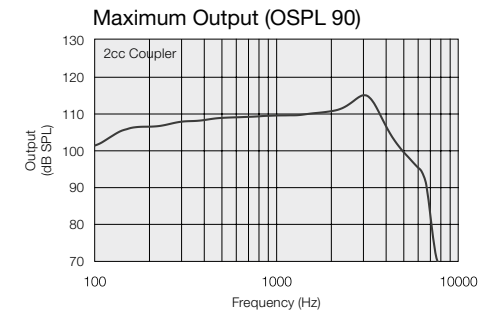
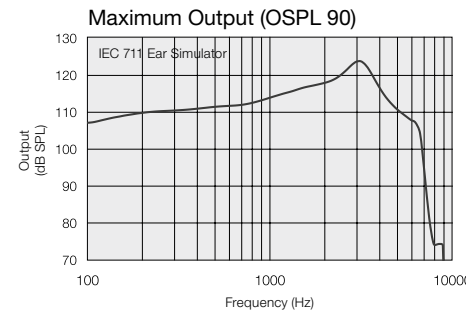
⊙ Advanced Settings

● Ultimate Settings

Technical Specifications

		LNDMIH (LP)		
		IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	33	33	dB
Full-on gain (50 dB SPL input)	Max.	49	40	dB
	1600 Hz/HFA	43	38	
Maximum output (90 dB SPL input)	Max.	124	115	dB SPL
	1600 Hz/HFA	117	110	
Total harmonic distortion	500 Hz	0.4	0.6	%
	800 Hz	0.7	0.6	
	1600 Hz	0.8	1.0	
Telecoil sensitivity (1 mA/m input)	Max.	N/A		dB SPL
	HFA - SPLIV @ 31.6 mA/m (ANSI)		N/A	
Full-on telecoil sensitivity @ 1mA/m	HFA	N/A	N/A	
	1600 Hz/HFA			
Equivalent input noise		22	21	dB SPL
Frequency range (DIN 45605/ANSI)		100-7120	100-6960	Hz
Current drain		1.1	1.3	mA

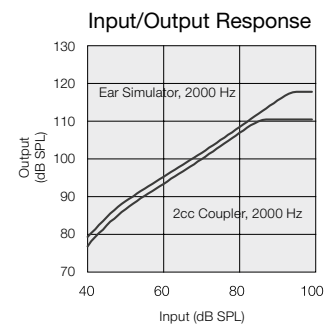
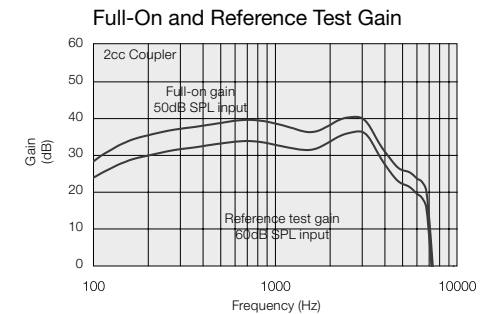
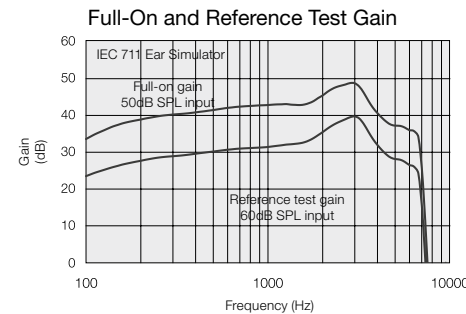
Data in accordance with IEC 60118-0, IEC 60118-7 and ANSI S3.22-2009; supply voltage 1.3 V.



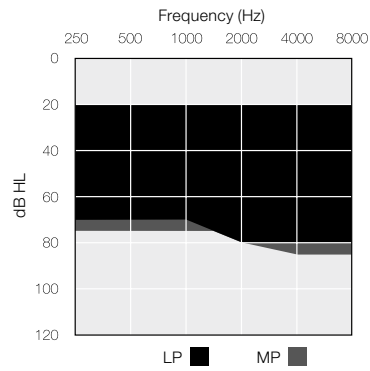
Notes:
O.E.S. = Occluded Ear Simulator
2cc = 2 cm³ coupler
Pi = Acoustic input signal

Basic settings:
Full-on Gain, Reference Test Gain
MPO = Maximum Power Output
Maximum Band Width

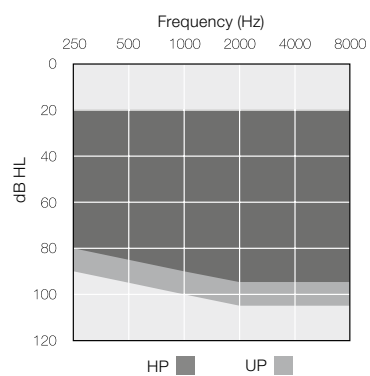
Measured according to IEC 60118-0 1983, amendment 1994; at 1.3 V, impedance 6.2 ohms and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 and ANSI S3.22-2009 (HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.



Fitting Range - Closed



Fitting Range - Closed



Beltone Legend™ is compatible with iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 3, iPad mini 2, iPad mini with Retina display, iPad mini and iPod touch (5th generation) using iOS 7.X or later. Apple, the Apple logo, iPhone, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.



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Patents pending

All specifications are subject to change without notice

400341000-GB-15.01-Rev.B

Technical Specifications

		LNDMIH (MP)		
		IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	40	36	dB
Full-on gain (50 dB SPL input)	Max.	59	50	dB
	1600 Hz/HFA	50	45	
Maximum output (90 dB SPL input)	Max.	127	119	dB SPL
	1600 Hz/HFA	121	113	
Total harmonic distortion	500 Hz	0.5	0.7	%
	800 Hz	0.9	0.8	
	1600 Hz	1.0	0.9	
Telecoil sensitivity (1 mA/m input)	Max.	88		dB SPL
HFA - SPLIV @ 31.6 mA/m (ANSI)	HFA		96	
Full-on telecoil sensitivity @ 1 mA/m	1600 Hz/HFA	81	74	
Equivalent input noise		24	21	dB SPL
Frequency range (DIN 45605/ANSI)		100-7170	100-7110	Hz
Current drain		1.1	1.3	mA

Data in accordance with IEC 60118-0, IEC 60118-7 and ANSI S3.22-2009; supply voltage 1.3 V.

Technical Specifications

		LNDMIH (HP)		LNDMIH (UP)		
		IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	47	43	59	49	dB
Full-on gain (50 dB SPL input)	Max.	69	60	79	70	dB
	1600 Hz/HFA	59	54	70	63	
Maximum output (90 dB SPL input)	Max.	130	121	137	130	dB SPL
	1600 Hz/HFA	126	120	136	125	
Total harmonic distortion	500 Hz	0.6	0.4	0.5	0.5	%
	800 Hz	1.3	0.7	1.4	1.0	
	1600 Hz	0.8	0.5	0.4	0.2	
Telecoil sensitivity (1 mA/m input)	Max.	98		106		dB SPL
HFA - SPLIV @ 31.6 mA/m (ANSI)	HFA		103		109	
Full-on telecoil sensitivity @ 1 mA/m	1600 Hz/HFA	88	83	99	93	
Equivalent input noise		22	20	24	20	dB SPL
Frequency range (DIN 45605/ANSI)		100-6930	100-6770	140-4720	100-4700	Hz
Current drain		1.2	1.3	1.1	1.2	mA

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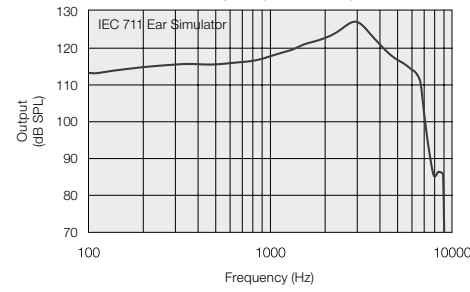
Patents pending

All specifications are subject to change without notice

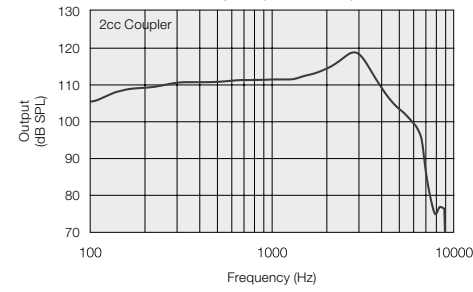
Patents pending

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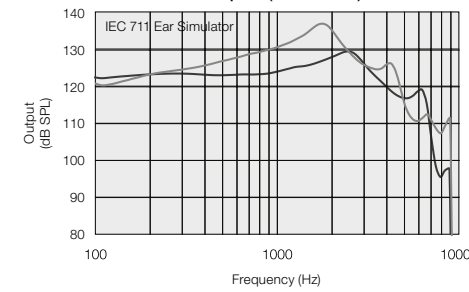
Maximum Output (OSPL 90)



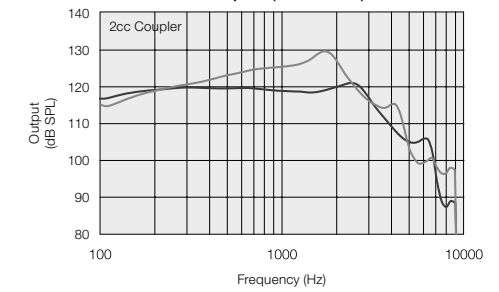
Maximum Output (OSPL 90)



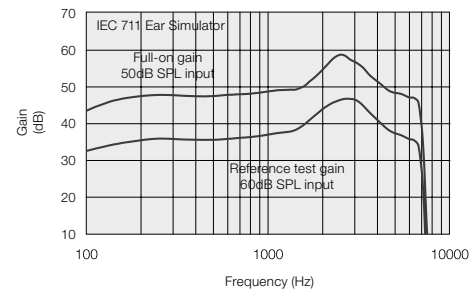
Maximum Output (OSPL 90)



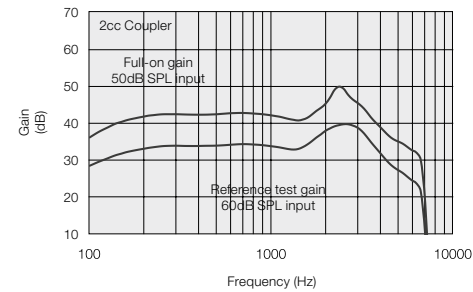
Maximum Output (OSPL 90)



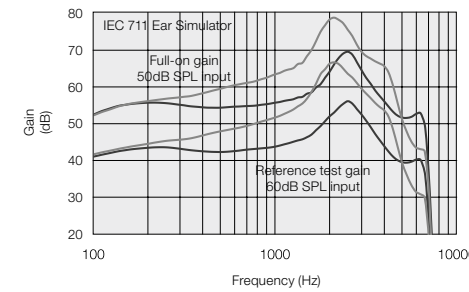
Full-On and Reference Test Gain



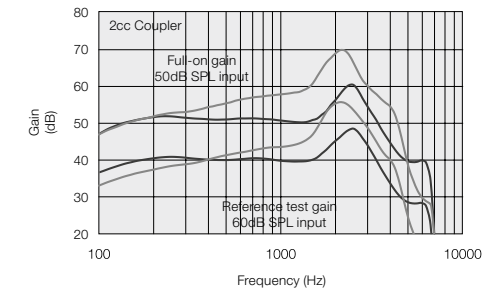
Full-On and Reference Test Gain



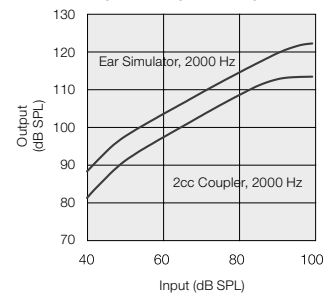
Full-On and Reference Test Gain



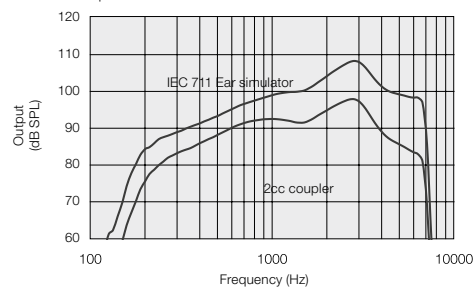
Full-On and Reference Test Gain



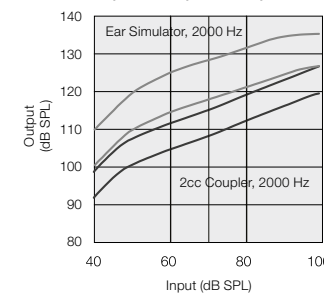
Input/Output Response



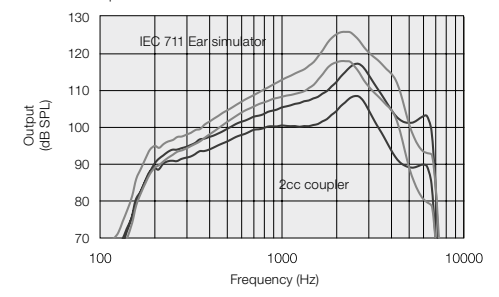
Full-On Telecoil Response



Input/Output Response



Full-On Telecoil Response



HP ■
UP ■