

# ReSound LiNX<sup>2</sup>



LSITC

## Product Description

In-the-Canal (ITC) hearing instruments with 4 available power levels: Low (LP), Medium (MP), High (HP) and Ultra (UP).

ReSound's SmartRange™ dual processing platform enables Surround Sound by ReSound™ sound quality.

The 3rd generation 2.4 GHz wireless functionality of the SmartRange platform features Bluetooth® 4.0, allowing wireless custom hearing instruments to connect to iPhone®, iPad® and iPod touch®. ReSound LiNX<sup>2</sup> wireless custom hearing instruments also support ReSound's full line of ReSound Unite™ accessories.

The custom hearing instrument faceplates and the associated components are iSolate™ nanotech-coated for optimum durability.

Model	LS9ITC*	LS7ITC**	LS5ITC***
<b>Device Features</b>			
Battery size	312		
Custom power levels	LP, MP, HP & UP		
Colors available	5		
<b>Functional Features</b>			
Fully flexible programs	4	4	4
Push button	●	●	●
Volume control	●	●	●
SmartStart™	●	●	●
PhoneNow™	●	●	●
Direct audio streaming (Made for iPhone)	●	●	●
ReSound Unite™ TV Streamer 2, Remote Control 2, Phone Clip+, Mini Microphone	●	●	●
2.4 GHz Device-to-Device Communication	●	●	●
ReSound Control™ app (Phone Clip+ required)	●	●	●
ReSound Smart™ app	●	●	●
<b>Audiological Features</b>			
WARP compression - number of channels	17	17	9
Environmental Classifier	●	●	●
Directional Mix Processor	●	●	●
-Adjustable directional mix	●	●	●
Binaural Directionality	●	●	●
Natural Directionality™ II	●	●	●
Softswitching™	●	●	●
Autoscope Adaptive Directionality™	●	●	●
Multiscope Adaptive Directionality™	●	●	●
Adaptive Directionality™	●	●	●
Environmental Optimizer	●	●	●
NoiseTracker™ II	●	○	○
Expansion	●	○	○
Windguard™	●	○	○
Sound Shaper	●	●	●
Low Frequency Boost (UP models only)	●	○	○
DFS Ultra™ II	●	●	●
-Music Mode™	●	●	●
Auto DFS™	●	●	●
Acceptance Manager	●	●	●
Amplification strategy (WDRC/Semilinear/Linear - UP models only)	●	○	○
Tinnitus Sound Generator	●	●	●
<b>Fitting Features</b>			
Fitting Software Aventa 3.8 or higher	●	●	●
Onboard Analyzer™ II	●	●	●
Wireless Fitting with Airlink™	●	●	●
*LS9ITC-DW UP, LS9ITC-DW HP, LS9ITC-DW MP, LS9ITC-DW LP, LS9ITC-DWE MP, LS9ITC-D UP, LS9ITC-D HP, LS9ITC-D MP, LS9ITC-D LP, LS9ITC-W UP, LS9ITC-W HP, LS9ITC-W MP, LS9ITC-W LP, LS9ITC UP, LS9ITC HP, LS9ITC MP, LS9ITC LP			
**LS7ITC-DW UP, LS7ITC-DW HP, LS7ITC-DW MP, LS7ITC-DW LP, LS7ITC-D UP, LS7ITC-D HP, LS7ITC-D MP, LS7ITC-D LP, LS7ITC-W HP, LS7ITC-W MP, LS7ITC-W LP, LS7ITC UP, LS7ITC HP, LS7ITC MP, LS7ITC LP			
***LS5ITC-DW UP, LS5ITC-DW HP, LS5ITC-DW MP, LS5ITC-DW LP, LS5ITC-D UP, LS5ITC-D HP, LS5ITC-D MP, LS5ITC-D LP, LS5ITC-W UP, LS5ITC-W HP, LS5ITC-W MP, LS5ITC-W LP, LS5ITC UP, LS5ITC HP, LS5ITC MP, LS5ITC LP			

○ Basic

● Advanced

● Ultimate

Patents pending

All specifications are subject to change without notice

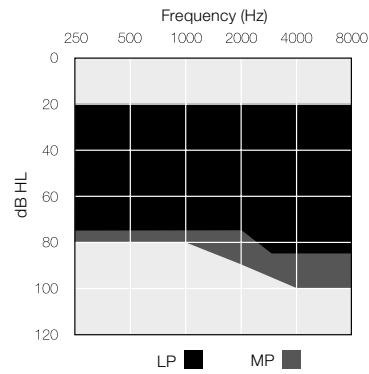
400335011-US-15.02-Rev.B

## Technical Specifications

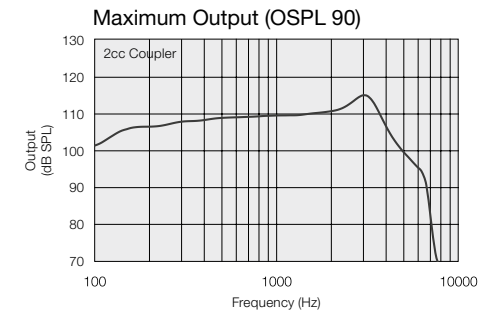
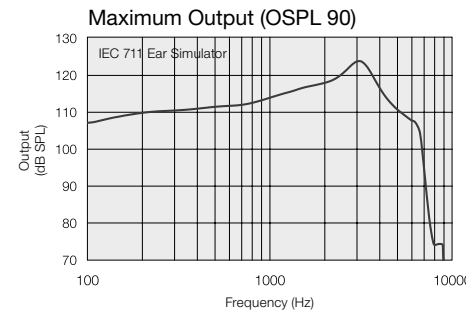
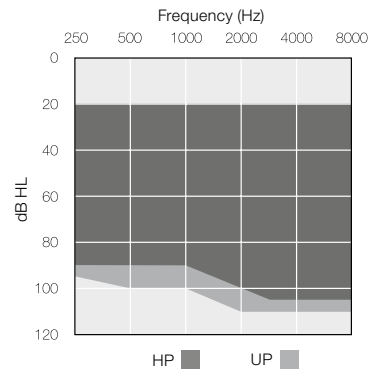
		LSITC (LP)		
		IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	33	33	dB
Full-on gain (50 dB SPL input)	Max.	49	40	dB
	1600 Hz/HFA	43	38	
Maximum output (90 dB SPL input)	Max.	124	115	dB SPL
	1600 Hz/HFA	117	110	
Total harmonic distortion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

### Fitting Range - Closed



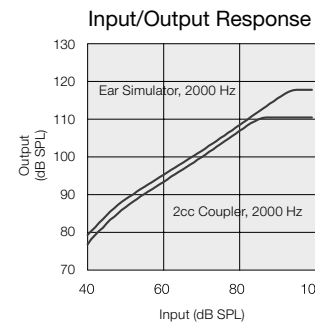
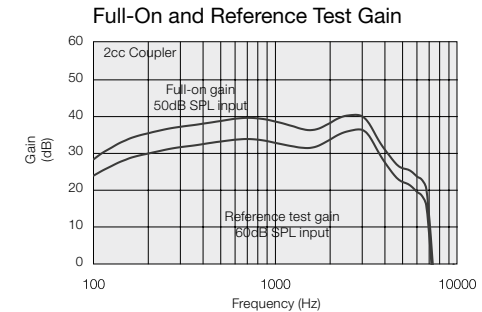
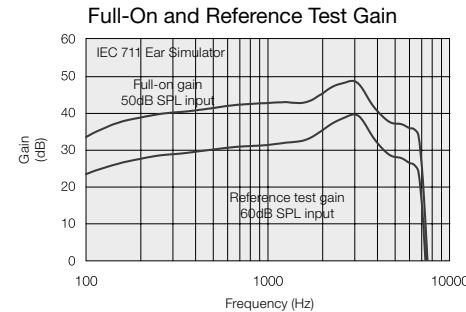
### Fitting Range - Closed



**Notes:**  
O.E.S. = Occluded Ear Simulator  
2cc = 2 cm<sup>3</sup> 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.



ReSound LiNX<sup>2</sup> 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.

**ReSound**  
rediscover hearing

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## Technical Specifications

		LSITC (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	96	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

		LSITC (HP)		LSITC (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	103	106	109	dB SPL
	HFA - SPLIV @ 31.6 mA/m (ANSI)	HFA	103	106	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

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

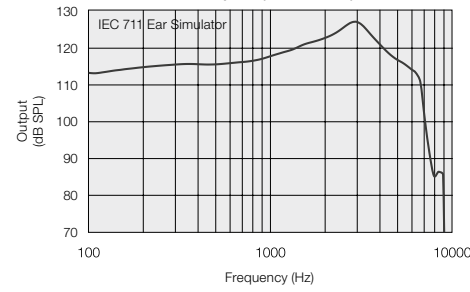
Patents pending

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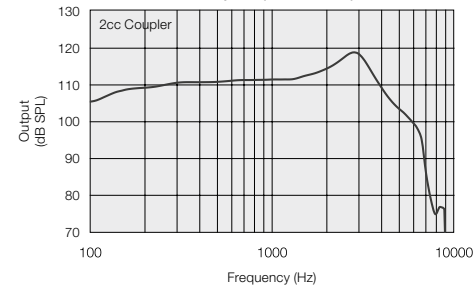
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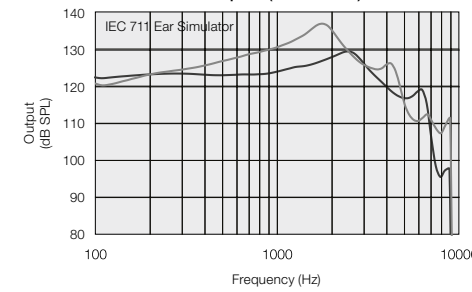
Maximum Output (OSPL 90)



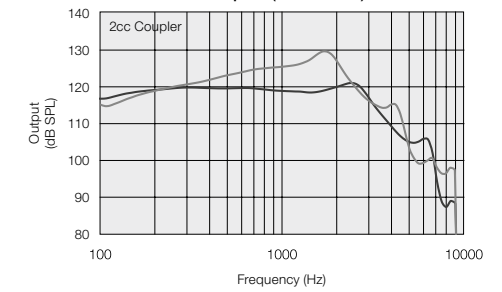
Maximum Output (OSPL 90)



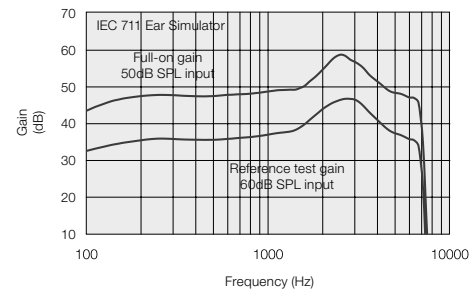
Maximum Output (OSPL 90)



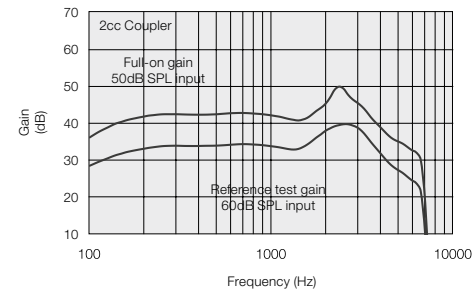
Maximum Output (OSPL 90)



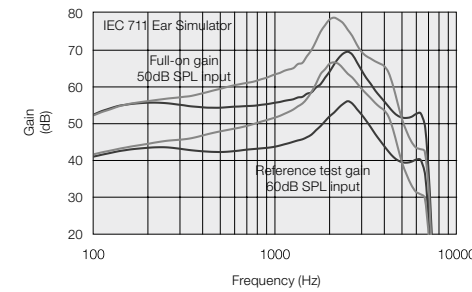
Full-On and Reference Test Gain



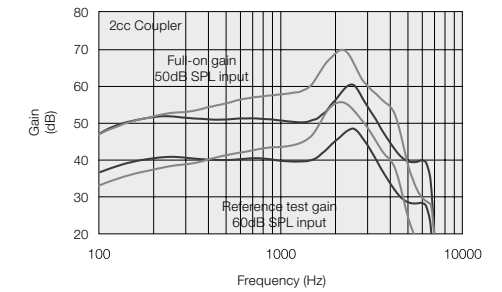
Full-On and Reference Test Gain



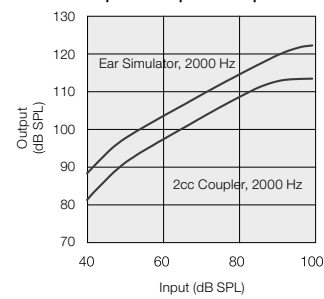
Full-On and Reference Test Gain



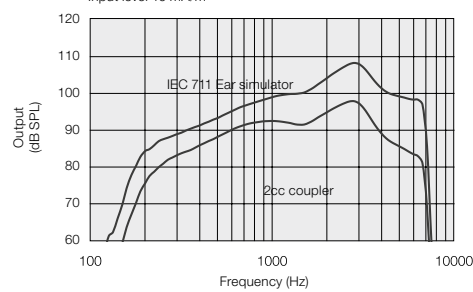
Full-On and Reference Test Gain



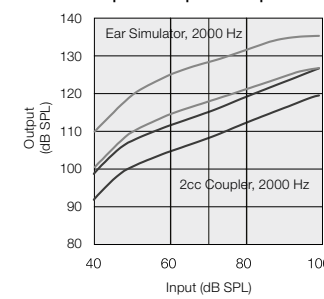
Input/Output Response



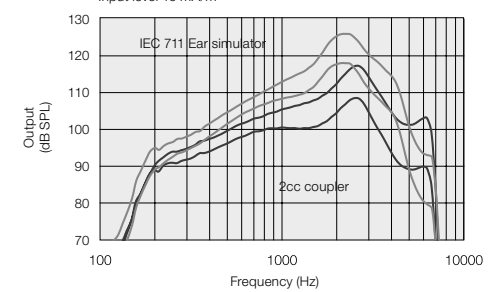
Full-On Telecoil Response



Input/Output Response



Full-On Telecoil Response



HP ■  
UP ■

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