

## TH Premium RIC LI 19

### Technical Data

Made for  
iPhone | iPad | iPod



#### S-Receiver

- 56 dB / 119 dB SPL (ear simulator)
- 45 dB / 108 dB SPL (2 ccm coupler)

#### M-Receiver

- 70 dB / 129 dB SPL (ear simulator)
- 60 dB / 119 dB SPL (2 ccm coupler)



#### P-Receiver

- 80 dB / 134 dB SPL (ear simulator)
- 70 dB / 124 dB SPL (2 ccm coupler)

#### HP-Receiver

- 82 dB / 138 dB SPL (ear simulator)
- 75 dB / 130 dB SPL (2 ccm coupler)

# TH Premium RIC LI 19 | Technical Data

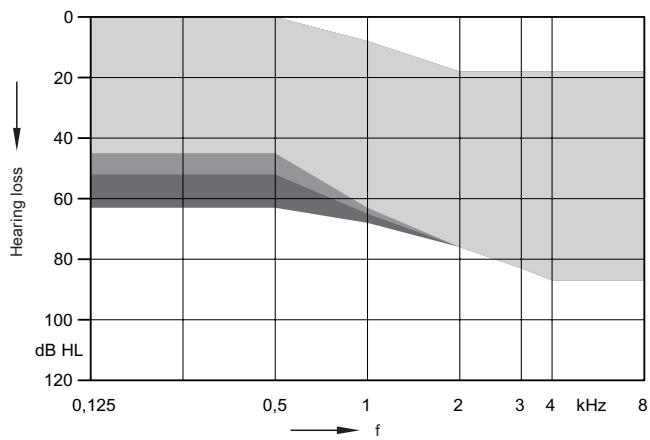
Type	S-Receiver		M-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>				
at 1.6 kHz	–	109 dB SPL	–	123 dB SPL
Peak	108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL
HFA-OSPL 90	101 dB SPL	–	113 dB SPL	–
<b>Gain</b>				
Full on gain (FOG) at 1.6 kHz	–	43 dB	–	55 dB
Full on gain (Peak)	45 dB	56 dB	60 dB	70 dB
HFA-FOG	37 dB	–	50 dB	–
Reference test gain	24 dB	34 dB	36 dB	48 dB
<b>Frequency, noise and directivity</b>				
Frequency range	100 - 10000 Hz	100 - 10000 Hz	100 - 9400 Hz	100 - 10000 Hz
Equivalent input noise	19 dB SPL	20 dB SPL	19 dB SPL	23 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	1 / 1 / 1 / 1 %	1 / 1 / 2 / - %	1 / 2 / 1 / 1 %	2 / 3 / 2 / - %
Tinnitus therapy broadband	65 dB SPL	–	70 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
<b>Inductive coil sensitivity</b>				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
<b>Battery</b>				
Battery voltage	1.25 V		1.25 V	
Battery current drain	1.2 mA	1.2 mA	1.4 mA	1.4 mA
Battery life (cell zinc air)	–		–	
Battery life (rechargeable)	~19 h		~19 h	
<b>IRIL IEC 60118-13:2016 Ed. 4.0</b>				
700-960 MHz (rating)	user		user	
1400-2000 MHz (rating)	user		user	
2000-2700 MHz (rating)	user		user	
<b>ANSI C63.19-2011</b>				
800-950 MHz (rating)	M4		M4	
1600-2500 MHz (rating)	M4		M4	

# TH Premium RIC LI 19 | Technical Data

Type	P-Receiver		HP-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>				
at 1.6 kHz	–	128 dB SPL	–	137 dB SPL
Peak	124 dB SPL	134 dB SPL	130 dB SPL	138 dB SPL
HFA-OSPL 90	119 dB SPL	–	123 dB SPL	–
<b>Gain</b>				
Full on gain (FOG) at 1.6 kHz	–	70 dB	–	82 dB
Full on gain (Peak)	70 dB	80 dB	75 dB	82 dB
HFA-FOG	63 dB	–	68 dB	–
Reference test gain	42 dB	53 dB	46 dB	62 dB
<b>Frequency, noise and directivity</b>				
Frequency range	100 - 7500 Hz	100 - 8100 Hz	100 - 7300 Hz	250 - 6100 Hz
Equivalent input noise	18 dB SPL	21 dB SPL	16 dB SPL	12 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	1 / 2 / 1 / 1 %	3 / 4 / 2 / - %	1 / 2 / 1 / 1 %	2 / 2 / 1 / - %
Tinnitus therapy broadband	75 dB SPL	–	85 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
<b>Inductive coil sensitivity</b>				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
<b>Battery</b>				
Battery voltage	1.25 V		1.25 V	
Battery current drain	1.3 mA	1.3 mA	1.3 mA	1.3 mA
Battery life (cell zinc air)	–		–	
Battery life (rechargeable)	~19 h		~19 h	
<b>IRIL IEC 60118-13:2016 Ed. 4.0</b>				
700-960 MHz (rating)	user		user	
1400-2000 MHz (rating)	user		user	
2000-2700 MHz (rating)	user		user	
<b>ANSI C63.19-2011</b>				
800-950 MHz (rating)	M4		M4	
1600-2500 MHz (rating)	M4		M4	

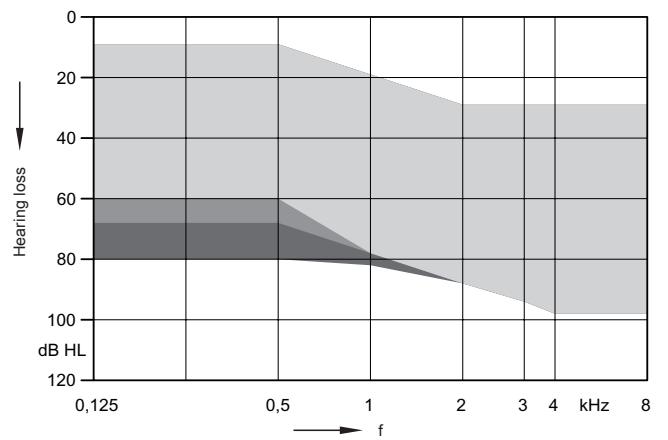
# TH Premium RIC LI 19 | Fitting Range

## S-Receiver



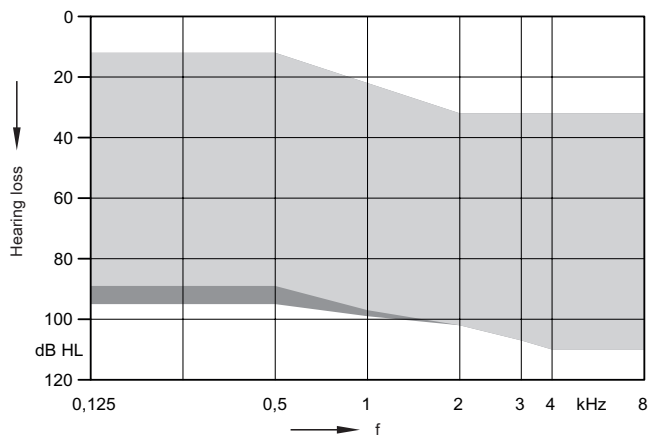
Open Click Domes  
 +  Double Click Domes  
 +  Click Mold (no vent)

## M-Receiver



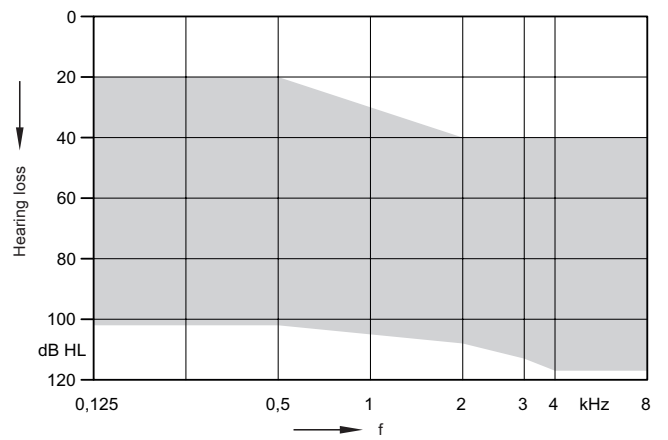
Open Click Domes  
 +  Double Click Domes  
 +  Click Mold (no vent)

## P-Receiver



Double Click Domes  
 +  Click Mold (no vent)

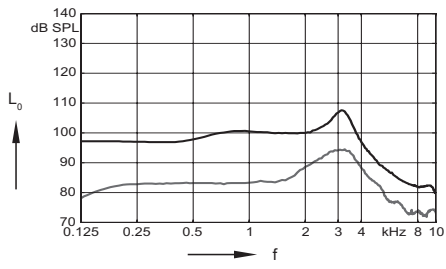
## HP-Receiver



Custom Shell (no vent)

# S-Receiver (Closed Click Dome) | Basic Data

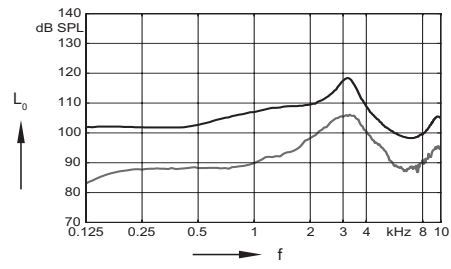
## 2 ccm coupler



**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

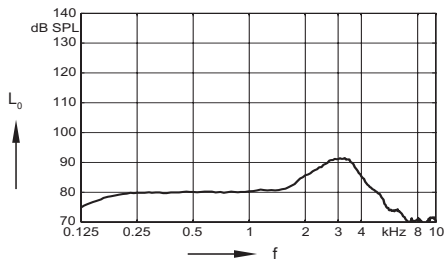
**Full on gain**  
(L<sub>1</sub> = 50 dB)

## Ear simulator

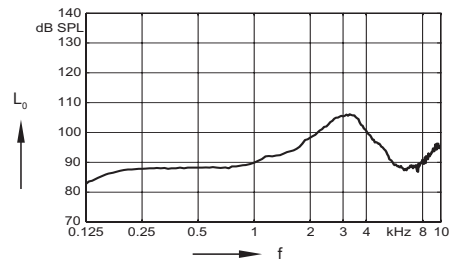


**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

**Full on gain**  
(L<sub>1</sub> = 50 dB)



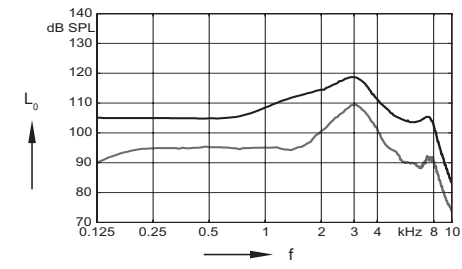
**Frequency response**  
(L<sub>1</sub> = 60 dB)



**Basic acoustic response**  
(L<sub>1</sub> = 60 dB)

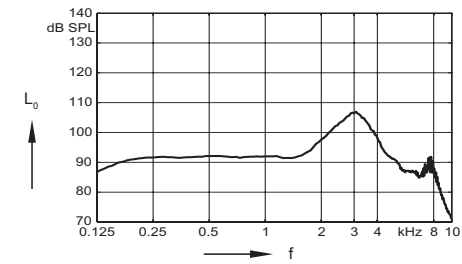
# M-Receiver (Closed Click Dome) | Basic Data

## 2 ccm coupler



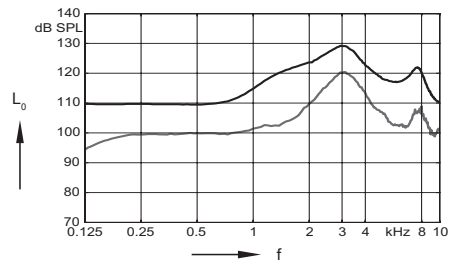
**Output sound pressure level**  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)



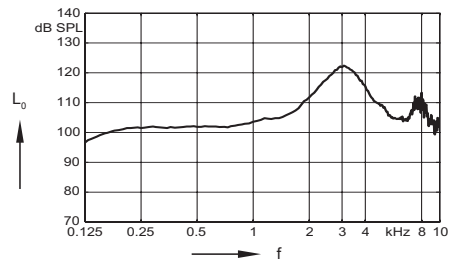
**Frequency response**  
( $L_1 = 60$  dB)

## Ear simulator



**Output sound pressure level**  
( $L_1 = 90$  dB)

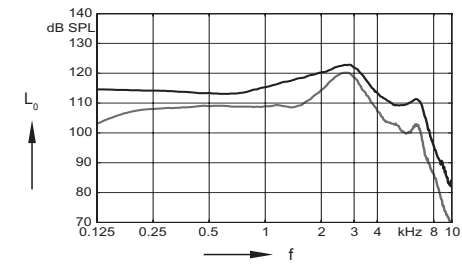
Full on gain  
( $L_1 = 50$  dB)



**Basic acoustic response**  
( $L_1 = 60$  dB)

# P-Receiver (Click mold) | Basic Data

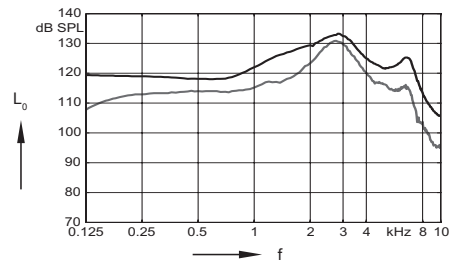
## 2 ccm coupler



**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

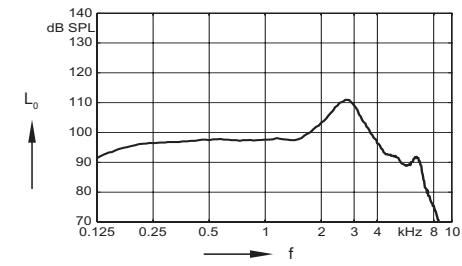
**Full on gain**  
(L<sub>1</sub> = 50 dB)

## Ear simulator

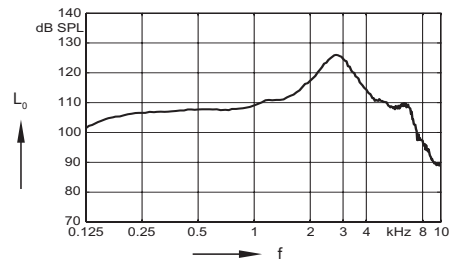


**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

**Full on gain**  
(L<sub>1</sub> = 50 dB)



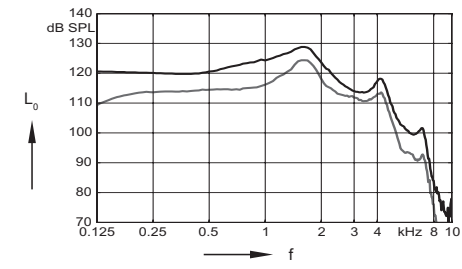
**Frequency response**  
(L<sub>1</sub> = 60 dB)



**Basic acoustic response**  
(L<sub>1</sub> = 60 dB)

# HP-Receiver (Custom Shell) | Basic Data

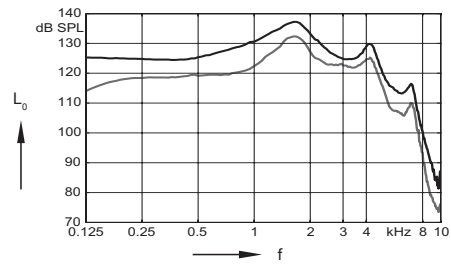
## 2 ccm coupler



**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

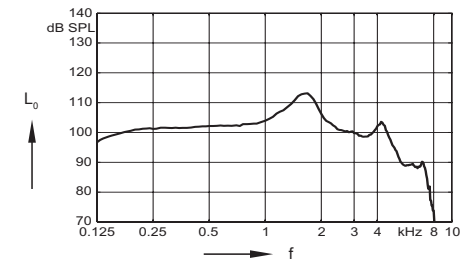
**Full on gain**  
(L<sub>1</sub> = 50 dB)

## Ear simulator

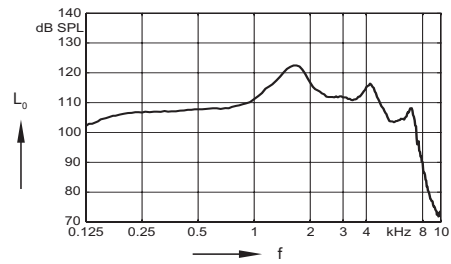


**Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

**Full on gain**  
(L<sub>1</sub> = 50 dB)



**Frequency response**  
(L<sub>1</sub> = 60 dB)



**Basic acoustic response**  
(L<sub>1</sub> = 60 dB)



# TH Premium RIC LI 19 | Features and Accessories

<b>Audiology</b>	
Own Voice Processing (OVP) <sup>1)</sup>	■ ■ ■ ■ ■
3D Classifier	■ ■ ■ ■ ■
Signal processing (channels) / Gain/MPO (handles)	48 / 20
Hearing programs	6
<b>Sound Clarity</b>	
HD Spatial	●
Extended dynamic range	●
Extended bandwidth	●
EchoShield	●
HD Music (presets)	3
eWindScreen binaural <sup>1)</sup>	●
eWindScreen	●
<b>Noise Management</b>	
Speech and noise management (steps)	7
SoundSmoothing® (steps)	3
Directional speech enhancement (steps)	3
Feedback cancellation	●
<b>Speech Quality</b>	
<b>Directionality</b>	
Narrow Directionality <sup>1)</sup>	●
Spatial SpeechFocus <sup>1)</sup>	●
SpeechFocus	●
TwinPhone <sup>1)</sup>	●
Frequency compression	●
<b>Direct Streaming</b>	
Made for iPhone®	●
Adaptive Streaming Volume <sup>2)</sup>	●
<b>Tinnitus</b>	
Notched Noise Therapy	●
Tinnitus therapy	●
<b>Fitting</b>	
Smart Optimizer and Data Logging	●
Acclimatization manager	●
Performance Guide	●
Insitugram	●
Learning (classes)	6
<b>TeleCare</b>	
TeleCare 3.0	●

<sup>1)</sup> req. bilateral fitting

<sup>2)</sup> streaming only

● available   ■ ■ ■ ■ ■ highest feature performance   — not available

# TH Premium RIC LI 19 | Features and Accessories

Style specific features	
Ingress Protection Rating	IP68
Charging contacts	—
Battery Size	—
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 – integrated telecoil	—
Battery door – child lock	—
Small earhook	—
Programming accessories	
ConnexxAir, ConnexxLink	—
Noahlink™ wireless	●
Programming adapter / cable	—
Accessories	
miniPocket®	○
TH CROS RIC 19	○
StreamLine TV	○
StreamLine Mic	○
Inductive Charger	mandatory
Apps	
myControl™ App	○
touchControl™ App	○

● available ○ optional — not available



# 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
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

## Standards and additional information

- ▶ 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 battery door only.
- ▶ Tinnitus therapy 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.
- ▶ The following acoustic connections / ear pieces were used:
  - S-Receiver Unit and M-Receiver Unit: Closed Click Dome
  - P-Receiver Unit: Click Mold
  - HP-Receiver Unit: Custom Shell

## Note for power cell

- ▶ Operating times may vary due to hearing loss, use of binaural features and accessories, age of power cell as well as the sound environment.

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.

**Manufactured for**

TruHearing Inc.  
12936 S. Frontrunner Blvd  
Draper, UT 84020  
United States

Order No. 03802-99T1-7600, SI/18938-19  
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**[www.truhearing.com](http://www.truhearing.com)**



**Warning**

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years and persons of mental incapacity.



**Warning**

Instrument has an output sound pressure level of 132 dB SPL or more.

- Risk of impairing the residual hearing of the user.
- ▶ Take special care when fitting this instrument.

**TH Premium RIC LI 19 S Receiver**  
Receiver-in-Canal Hearing Instrument

All data specified were determined under test conditions which comply with the Specifications of Hearing Aid Characteristics ANSI S3.22 — 2014. Hearing aid test settings according to the test mode, selectable from the CONNEXX® fitting menu, configures the instrument for full-on gain, no compression and all adaptive signal analysis and processing turned off.

SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

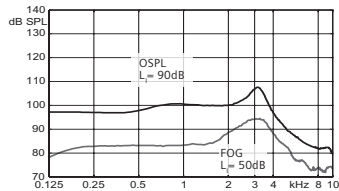
Battery life stated is measured at 65 dB input and reference test gain.

Actual battery life depends on the output level. All tests performed with closed click dome.

Standard ANSI S3.22 - 2014		2 ccm coupler
<b>Output</b>	Peak OSPL 90 HF - average OSPL 90	108 dB 101 dB
<b>Full-on gain</b>	Peak HF - average Reference test gain	45 dB 37 dB 24 dB
<b>Frequency range</b>	Low frequency limit High frequency limit	100 Hz 10000 Hz
<b>Total harmonic distortion</b>	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 1% 1% 1%
<b>Equivalent input noise</b>		19 dB
<b>Battery current drain</b>		1.2 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

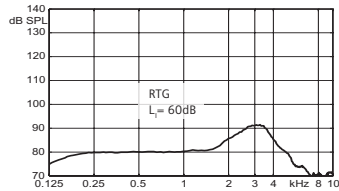
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

ANSI S3.22-2014



Hearing Instruments made in Singapore.  
10240777 10/18 1.0 SI/18916-18



**TH Premium RIC LI 19 S Receiver**  
Receiver-in-Canal Hearing Instrument

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SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

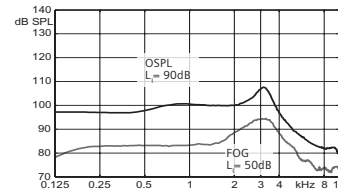
Battery life stated is measured at 65 dB input and reference test gain.

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Standard ANSI S3.22 - 2014		2 ccm coupler
<b>Output</b>	Peak OSPL 90 HF - average OSPL 90	108 dB 101 dB
<b>Full-on gain</b>	Peak HF - average Reference test gain	45 dB 37 dB 24 dB
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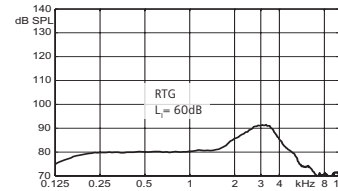
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

ANSI S3.22-2014



Hearing Instruments made in Singapore.  
10240777 10/18 1.0 SI/18916-18



**TH Premium RIC LI 19 S Receiver**  
Receiver-in-Canal Hearing Instrument

All data specified were determined under test conditions which comply with the Specifications of Hearing Aid Characteristics ANSI S3.22 — 2014. Hearing aid test settings according to the test mode, selectable from the CONNEXX® fitting menu, configures the instrument for full-on gain, no compression and all adaptive signal analysis and processing turned off.

SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

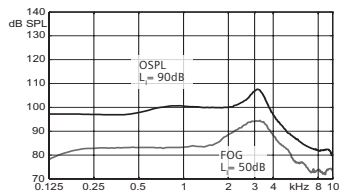
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<b>Battery current drain</b>		1.2 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

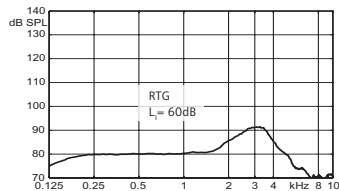
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

ANSI S3.22-2014



Hearing Instruments made in Singapore.  
10240777 10/18 1.0 SI/18916-18



**TH Premium RIC LI 19 S Receiver**  
Receiver-in-Canal Hearing Instrument

All data specified were determined under test conditions which comply with the Specifications of Hearing Aid Characteristics ANSI S3.22 — 2014. Hearing aid test settings according to the test mode, selectable from the CONNEXX® fitting menu, configures the instrument for full-on gain, no compression and all adaptive signal analysis and processing turned off.

SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

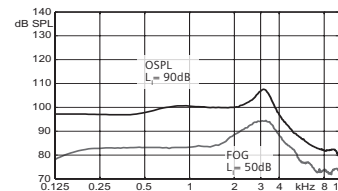
Battery life stated is measured at 65 dB input and reference test gain.

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<b>Total harmonic distortion</b>	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 1% 1% 1%
<b>Equivalent input noise</b>		19 dB
<b>Battery current drain</b>		1.2 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

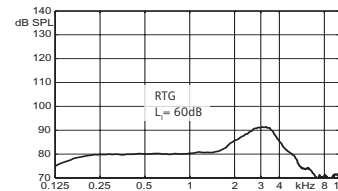
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

ANSI S3.22-2014



Hearing Instruments made in Singapore.  
10240777 10/18 1.0 SI/18916-18



**TH Premium RIC LI 19 M Receiver**  
Receiver-in-Canal Hearing Instrument

All data specified were determined under test conditions which comply with the Specifications of Hearing Aid Characteristics ANSI S3.22 — 2014. Hearing aid test settings according to the test mode, selectable from the CONNEXX® fitting menu, configures the instrument for full-on gain, no compression and all adaptive signal analysis and processing turned off.

SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

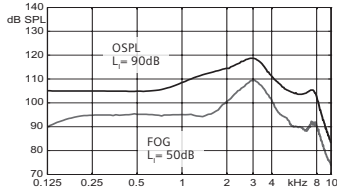
Battery life stated is measured at 65 dB input and reference test gain.

Actual battery life depends on the output level. All tests performed with closed click dome.

Standard ANSI S3.22 - 2014		2 ccm coupler
<b>Output</b>	Peak OSPL 90 HF - average OSPL 90	119 dB 113 dB
<b>Full-on gain</b>	Peak HF - average Reference test gain	60 dB 50 dB 36 dB
<b>Frequency range</b>	Low frequency limit High frequency limit	100 Hz 9400 Hz
<b>Total harmonic distortion</b>	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
<b>Equivalent input noise</b>		19 dB
<b>Battery current drain</b>		1.4 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

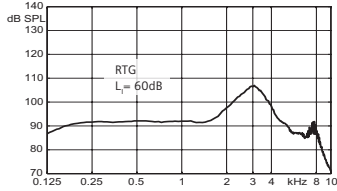
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

ANSI S3.22-2014



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SPLITS (Sound Pressure Level for Inductive Telecoil Simulator)

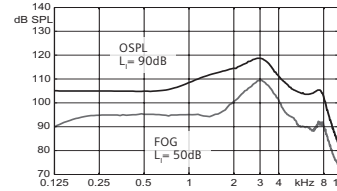
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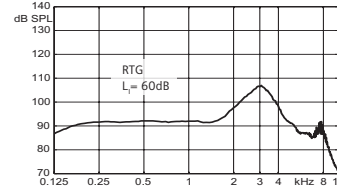
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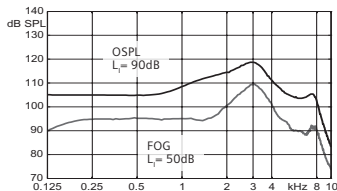
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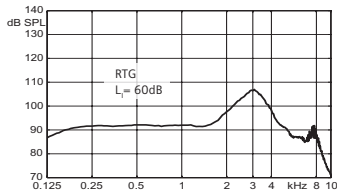
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**Frequency Response**

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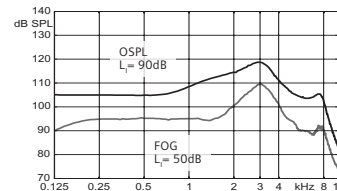
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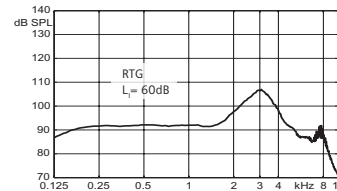
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**Frequency Response**

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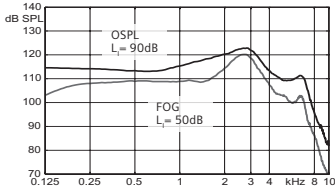
Battery life stated is measured at 65 dB input and reference test gain.

Actual battery life depends on the output level. All tests performed with click mold.

Standard ANSI S3.22 - 2014		2 ccm coupler
<b>Output</b>	Peak OSPL 90 HF - average OSPL 90	124 dB 119 dB
<b>Full-on gain</b>	Peak HF - average Reference test gain	70 dB 63 dB 42 dB
<b>Frequency range</b>	Low frequency limit High frequency limit	100 Hz 7500 Hz
<b>Total harmonic distortion</b>	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
<b>Equivalent input noise</b>		18 dB
<b>Battery current drain</b>		1.3 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

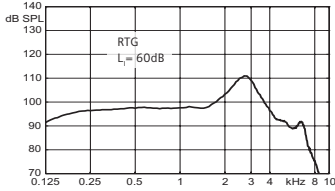
**Output Sound Pressure Level**

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**Frequency Response**

ANSI S3.22-2014



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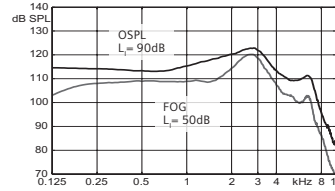
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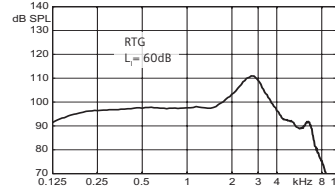
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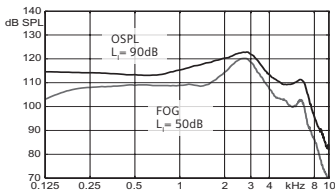
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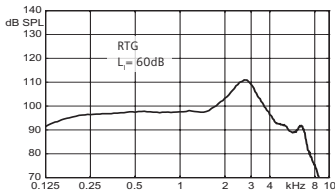
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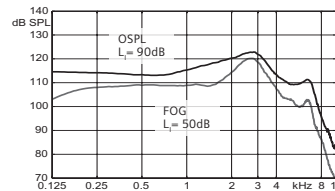
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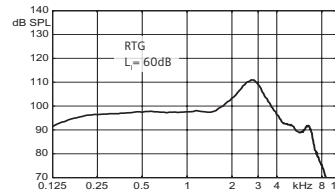
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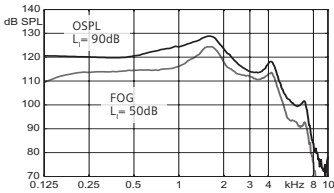
Battery life stated is measured at 65 dB input and reference test gain.

Actual battery life depends on the output level. All tests performed with custom shell.

Standard ANSI S3.22 - 2014		2 ccm coupler
<b>Output</b>	Peak OSPL 90 HF - average OSPL 90	130 dB 123 dB
<b>Full-on gain</b>	Peak HF - average Reference test gain	75 dB 68 dB 46 dB
<b>Frequency range</b>	Low frequency limit High frequency limit	100 Hz 7300 Hz
<b>Total harmonic distortion</b>	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
<b>Equivalent input noise</b>		16 dB
<b>Battery current drain</b>		1.3 mA
<b>Battery life (typical)</b>	Li-Ion power cell	up to 19 hrs.

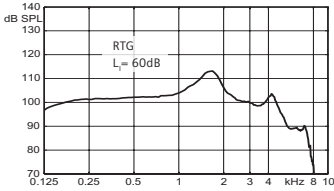
**Output Sound Pressure Level**

ANSI S3.22-2014



**Frequency Response**

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10240780 10/18 1.0 SI/18919-18



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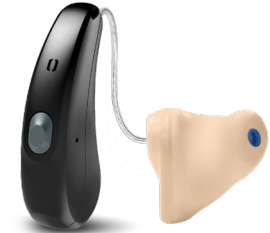
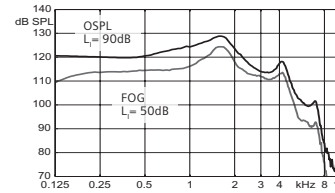
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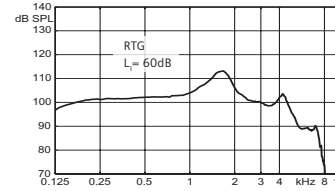
**Output Sound Pressure Level**

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**Frequency Response**

ANSI S3.22-2014



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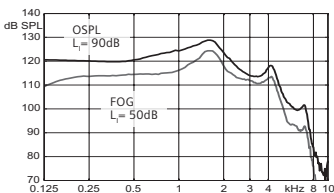
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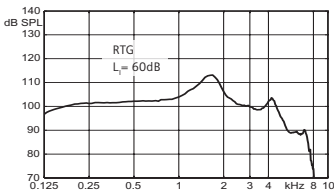
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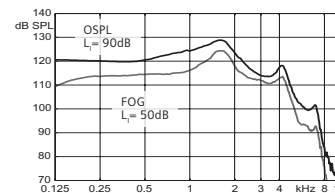
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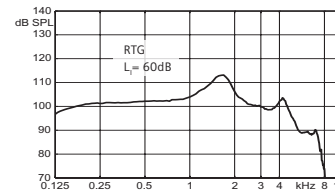
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