

TH Premium/Advanced RIC 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/Advanced RIC 19 | Technical Data

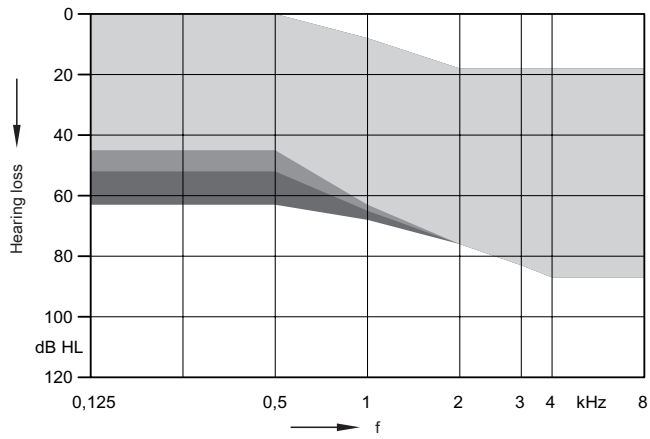
Type	S-Receiver		M-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	109 dB SPL	–	123 dB SPL
Peak	108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL
HFA-OSPL 90	101 dB SPL	–	113 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	43 dB	–	55 dB
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
Frequency, noise and directivity				
Frequency range Premium	100 - 10000 Hz	100 - 10000 Hz	100 - 9400 Hz	100 - 10000 Hz
Advanced	100 - 8200 Hz	100 - 8300 Hz	100 - 8200 Hz	100 - 8300 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	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.2 mA	1.2 mA	1.4 mA	1.4 mA
Battery life (cell zinc air)	~70 h		~67 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		M4	
1600-2500 MHz (rating)	M4		M4	

TH Premium/Advanced RIC 19 | Technical Data

Type	P-Receiver		HP-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
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	–
Gain				
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
Frequency, noise and directivity				
Frequency range Premium	100 - 7500 Hz	100 - 8100 Hz	100 - 7300 Hz	250 - 6100 Hz
Advanced	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	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
HFA SPLIV	–	–	–	–
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)	~67 h		~67 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		M4	
1600-2500 MHz (rating)	M4		M4	

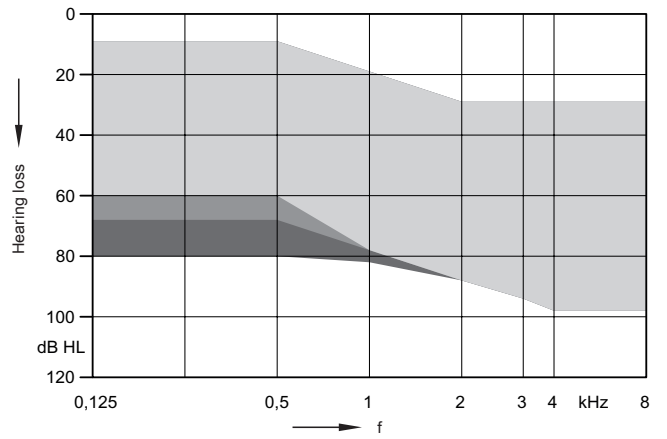
TH Premium/Advanced RIC 19 | Fitting Range

S-Receiver



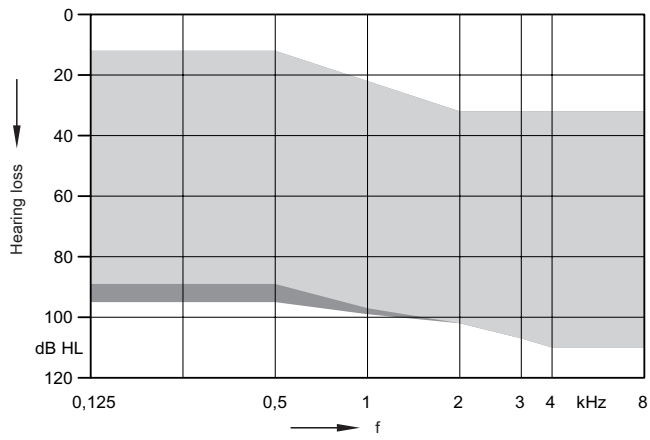
Open Click Domes
 + Double Click Domes
 + + Click Mold (no vent)

M-Receiver



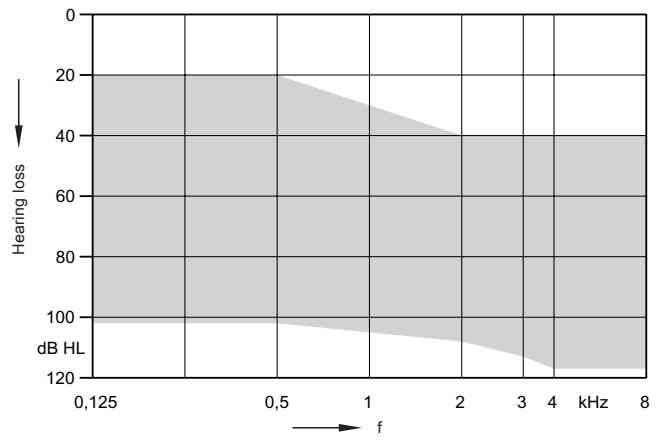
Open Click Domes
 + Double Click Domes
 + + Click Mold (no vent)

P-Receiver



Double Click Domes
 + Click Mold (no vent)

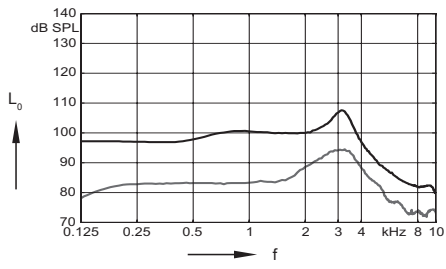
HP-Receiver



Custom Shell (no vent)

S-Receiver (Closed Click Dome) | Basic Data

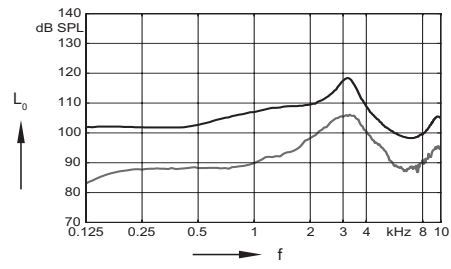
2 ccm coupler



Output sound pressure level
(L₁ = 90 dB)

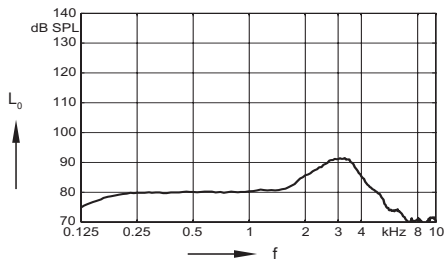
Full on gain
(L₁ = 50 dB)

Ear simulator

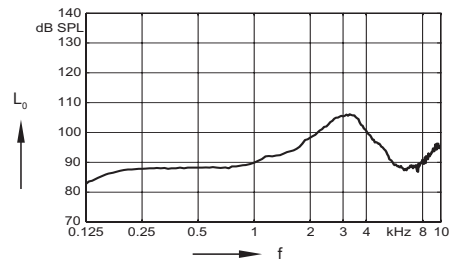


Output sound pressure level
(L₁ = 90 dB)

Full on gain
(L₁ = 50 dB)



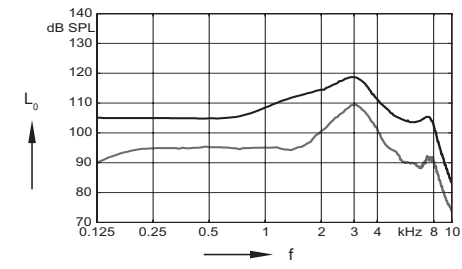
Frequency response
(L₁ = 60 dB)



Basic acoustic response
(L₁ = 60 dB)

M-Receiver (Closed Click Dome) | Basic Data

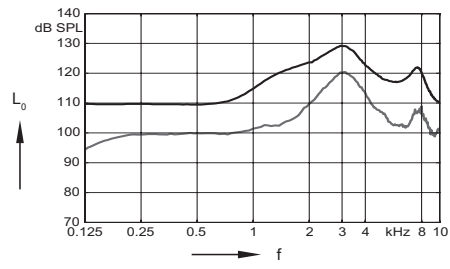
2 ccm coupler



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

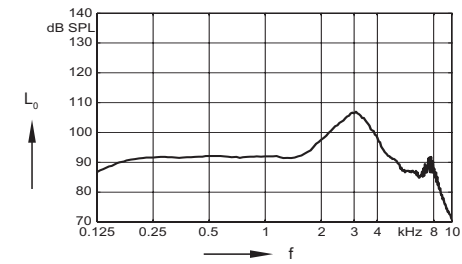
Full on gain
($L_1 = 50$ dB)

Ear simulator

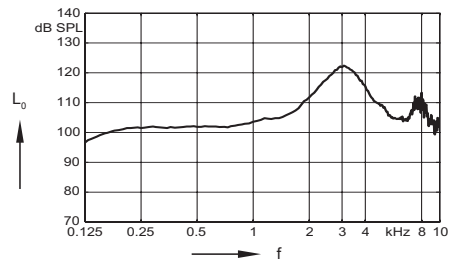


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



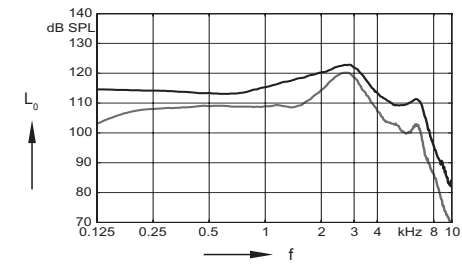
Frequency response
($L_1 = 60$ dB)



Basic acoustic response
($L_1 = 60$ dB)

P-Receiver (Click mold) | Basic Data

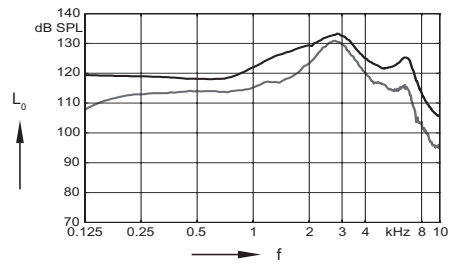
2 ccm coupler



Output sound pressure level
(L₁ = 90 dB)

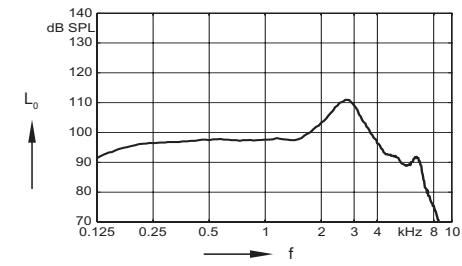
Full on gain
(L₁ = 50 dB)

Ear simulator

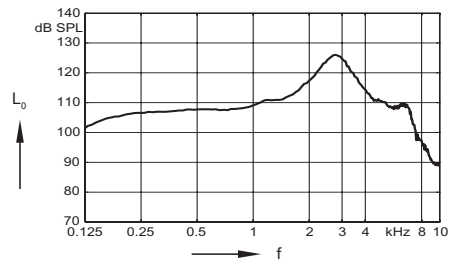


Output sound pressure level
(L₁ = 90 dB)

Full on gain
(L₁ = 50 dB)



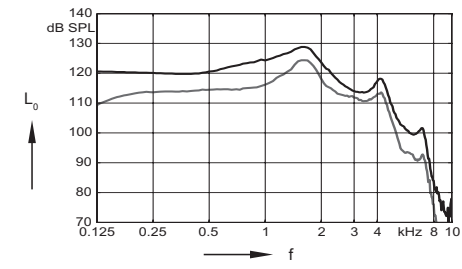
Frequency response
(L₁ = 60 dB)



Basic acoustic response
(L₁ = 60 dB)

HP-Receiver (Custom Shell) | Basic Data

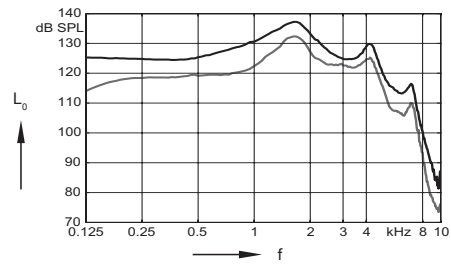
2 ccm coupler



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

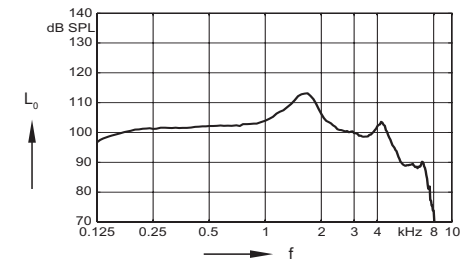
Full on gain
($L_1 = 50$ dB)

Ear simulator

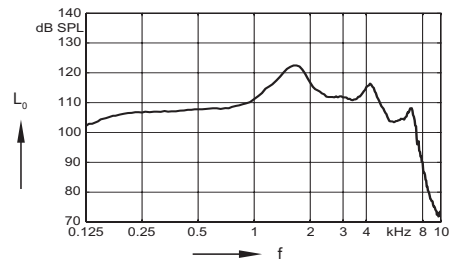


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



Frequency response
($L_1 = 60$ dB)



Basic acoustic response
($L_1 = 60$ dB)

TH Premium/Advanced RIC 19 | Features and Accessories

	Premium	Advanced
Audiology		
Own Voice Processing (OVP) ¹⁾	■■■■■	■■■■■
3D Classifier	■■■■■	■■■■
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16
Hearing programs	6	6
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
SoundSmoothing® (steps)	3	3
Directional speech enhancement (steps)	3	1
Feedback cancellation	●	●
Speech Quality		
Directionality		
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 therapy	●	●
Fitting		
Smart Optimizer and Data Logging	●	●
Acclimatization manager	●	●
Performance Guide	●	●
Insitugram	●	●
Learning (classes)	6	3
TeleCare		
TeleCare 3.0	●	●

¹⁾ req. bilateral fitting

²⁾ not available in the universal program on Advanced

³⁾ for Advanced in Stroll Program or with Spatial Configurator only

⁴⁾ streaming only

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

TH Premium/Advanced RIC 19 | Features and Accessories

	Premium / Advanced
Style specific features	
Ingress Protection Rating	IP68
Charging contacts	—
Battery Size	312
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	
ConnexAir, ConnexLink	—
Noahlink™ wireless	●
Programming adapter / cable	size 312
Accessories	
miniPocket®	○
StreamLine TV	○
Apps	
myControl™ App	○
touchControl™ App	○

● available ○ optional — not available

Further Information

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.
- ▶ Extended frequency range up to 12 kHz for Premium devices only.
- ▶ Figures representing Equivalent Input Noise incorporate a moderate expansion.
- ▶ 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.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil battery door only.
- ▶ 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
- ▶ 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.

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. 03777-99T1-7600, SI/18932-19
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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 CROS RIC 19

Technical Data



TH CROS RIC 19 | Features and Accessories

Style Specific Features	
Ingress Protection Rating	IP68
Nanocoated housing	●
RoHS	Yes
Battery Specifications	
Battery type	312
Battery voltage	1.3 V
Battery current drain	1.4 mA
Battery life (cell zinc air)	~110 h
Technical Data	
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
Field strength magnetic link	
EN300330 short range device	-22.0 dB μ A/m @ 10 m
RSS 210, issue 9	7.2 dB μ V/m @ 30 m
Sending frequency	3.28 MHz
Transmission range	18 cm

Standards

Additional information

- ▶ The current consumption is measured in normal operating mode (audio link using e2e wireless 3.0). Due to the settling behaviour of hearing instruments, the battery current is measured 3 minutes after turning on.
 - ▶ The battery life is based on the given current consumption. The actual battery life is determined by battery quality, usage and activated feature set.
-

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. Fronrunner Blvd
Draper, UT 84020
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Order No. 03780-99T1-7600, SI/18931-19
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www.truhearing.com

RIC 19 S Receiver
Premium/Advanced
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.

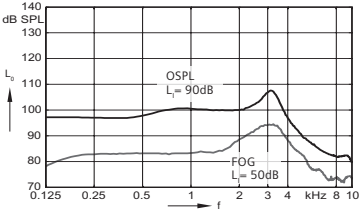
Battery life stated is measured at 65 dB input and reference test gain.
Actual battery life depends on the output level.
All tests performed with click dome.

Standard ANSI S3.22 - 2014		2 cm coupler
Output	Peak OSPL 90 HF - average OSPL 90	108 dB 101 dB
Full-on gain	Peak HF - average Reference test gain	45 dB 37 dB 24 dB
Frequency range	Low frequency limit High frequency limit	100 Hz 10000 Hz*
Total harmonic distortion	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 1% 1% 1%
Equivalent input noise		19 dB
Battery current drain		1.2 mA
Battery life (typical)	#312 zinc air battery	~70 hrs.

*high frequency limit = 8200 Hz for Advanced

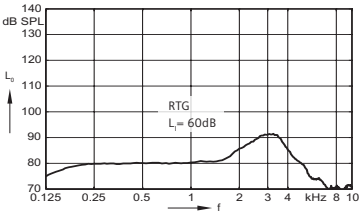
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



Hearing Instruments made in Singapore.
10240781 10/18 1.0 SI/18920-18



RIC 19 S Receiver
Premium/Advanced
Receiver-in-Canal Hearing Instrument

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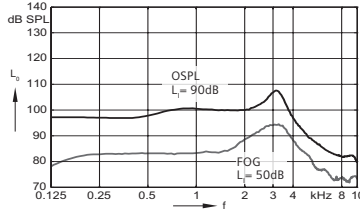
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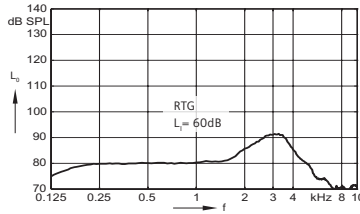
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



Hearing Instruments made in Singapore.
10240781 10/18 1.0 SI/18920-18



RIC 19 S Receiver
Premium/Advanced
Receiver-in-Canal Hearing Instrument

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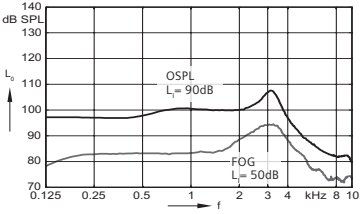
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Equivalent input noise		19 dB
Battery current drain		1.2 mA
Battery life (typical)	#312 zinc air battery	~70 hrs.

*high frequency limit = 8200 Hz for Advanced

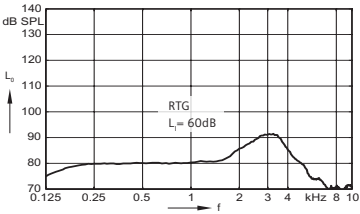
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



Hearing Instruments made in Singapore.
10240781 10/18 1.0 SI/18920-18



RIC 19 S Receiver
Premium/Advanced
Receiver-in-Canal Hearing Instrument

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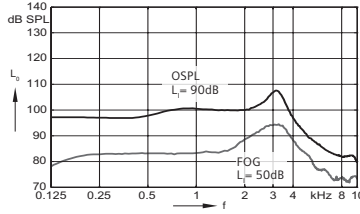
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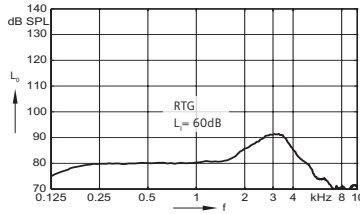
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



Hearing Instruments made in Singapore.
10240781 10/18 1.0 SI/18920-18



RIC 19 M Receiver
Premium/Advanced
Receiver-in-Canal Hearing Instrument

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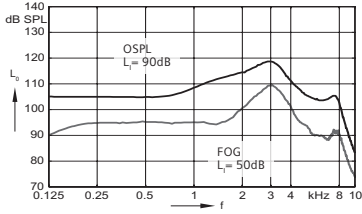
Actual battery life depends on the output level. All tests performed with closed click dome.

Standard ANSI S3.22 - 2014		2 ccm coupler
Output	Peak OSPL 90 HF - average OSPL 90	119 dB 113 dB
Full-on gain	Peak HF - average Reference test gain	60 dB 50 dB 36 dB
Frequency range	Low frequency limit High frequency limit	100 Hz 9400 Hz*
Total harmonic distortion	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
Equivalent input noise		19 dB
Battery current drain		1.4 mA
Battery life (typical)	#312 zinc air battery	~67 hrs.

*high frequency limit = 8200 Hz for Advanced

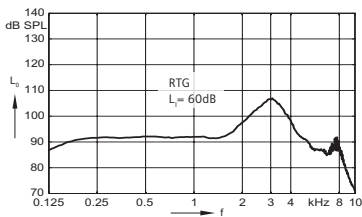
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



Hearing Instruments made in Singapore.
10240782 10/18 1.0 SI/18921-18

TruHearing®

RIC 19 M Receiver
Premium/Advanced
Receiver-in-Canal Hearing Instrument

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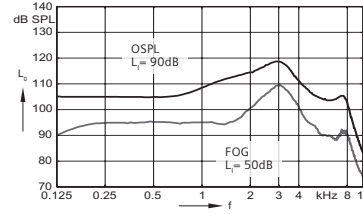
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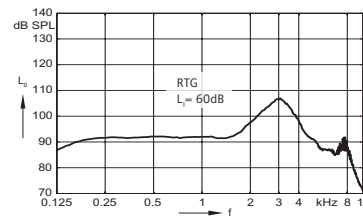
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

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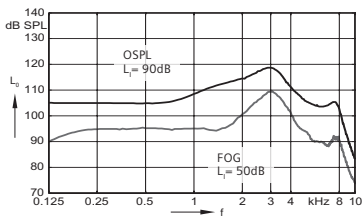
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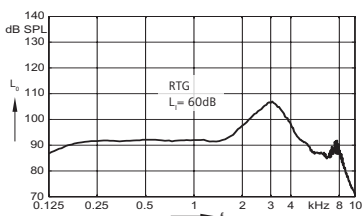
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

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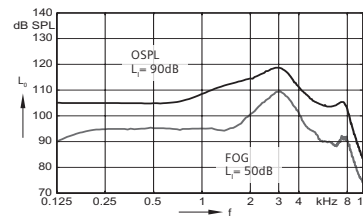
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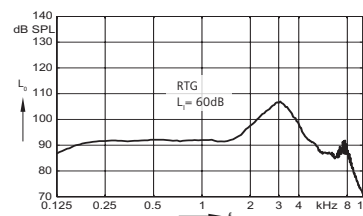
Output Sound Pressure Level

ANSI S3.22 -2014



Frequency Response

ANSI S3.22 -2014



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TruHearing®

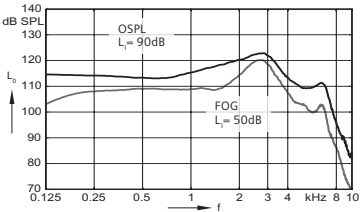
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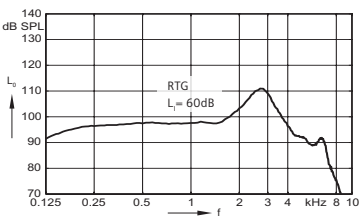
Battery life stated is measured at 65 dB input and reference test gain.
Actual battery life depends on the output level.
All tests performed with click mold.

Standard ANSI S3.22 - 2014		2 cm coupler
Output	Peak OSPL 90 HF - average OSPL 90	124 dB 119 dB
Full-on gain	Peak HF - average Reference test gain	70 dB 63 dB 42 dB
Frequency range	Low frequency limit High frequency limit	100 Hz 7500 Hz
Total harmonic distortion	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
Equivalent input noise		18 dB
Battery current drain		1.3 mA
Battery life (typical) #312 zinc air battery		~67 hrs.

Output Sound Pressure Level
ANSI S3.22 - 2014



Frequency Response
ANSI S3.22 - 2014



Hearing Instruments made in Singapore.
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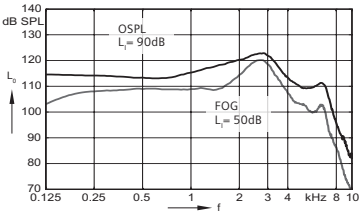
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Premium/Advanced
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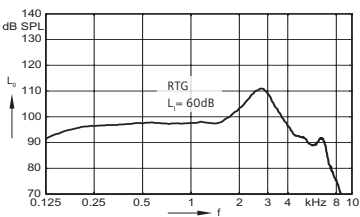
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Output Sound Pressure Level
ANSI S3.22 - 2014



Frequency Response
ANSI S3.22 - 2014



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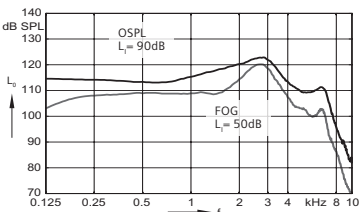
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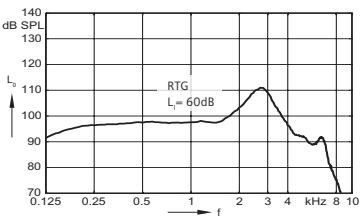
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Output Sound Pressure Level
ANSI S3.22 - 2014



Frequency Response
ANSI S3.22 - 2014



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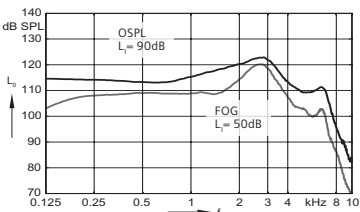
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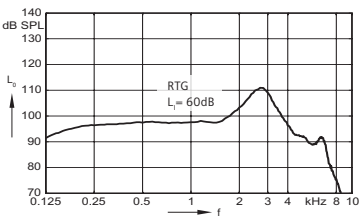
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Output Sound Pressure Level
ANSI S3.22 - 2014



Frequency Response
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Hearing Instruments made in Singapore.
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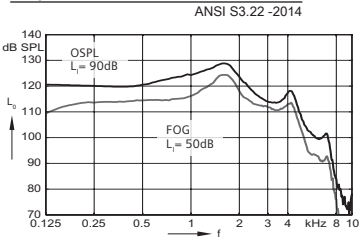
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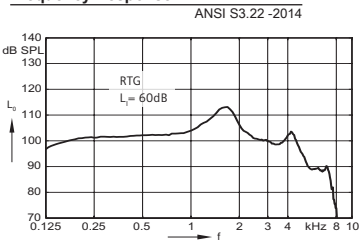
Battery life stated is measured at 65 dB input and reference test gain.
Actual battery life depends on the output level.
All tests performed with custom shell.

Standard ANSI S3.22 - 2014		2 cm coupler
Output	Peak OSPL 90 HF - average OSPL 90	130 dB 123 dB
Full-on gain	Peak HF - average Reference test gain	75 dB 68 dB 46 dB
Frequency range	Low frequency limit High frequency limit	100 Hz 7300 Hz
Total harmonic distortion	500 Hz 800 Hz 1600 Hz 3200 Hz	1% 2% 1% 1%
Equivalent input noise		16 dB
Battery current drain		1.3 mA
Battery life (typical) #312 zinc air battery		~67 hrs.

Output Sound Pressure Level



Frequency Response



Hearing Instruments made in Singapore.
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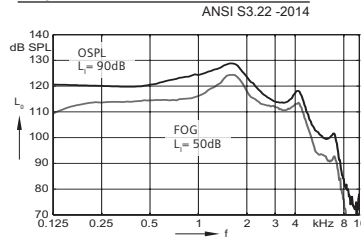
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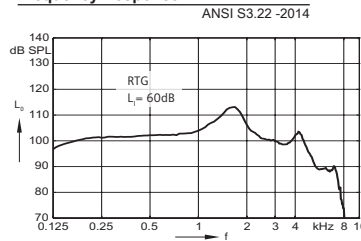
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Output Sound Pressure Level



Frequency Response



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10240784 10/18 1.0 SI/18923-18



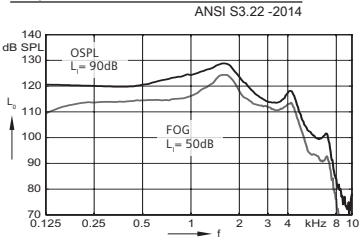
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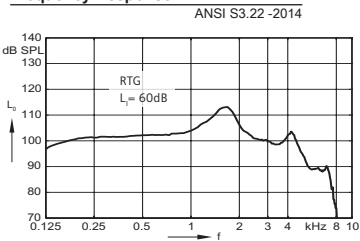
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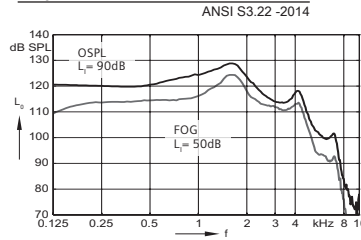
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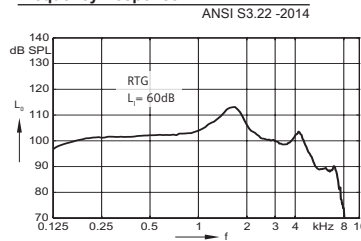
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