

TH Premium/Advanced STD BTE 19

Technical Data

Made for
iPhone | iPad | iPod





Earhook

- 70 dB / 139 dB SPL (ear simulator)
- 63 dB / 134 dB SPL (2 ccm coupler)

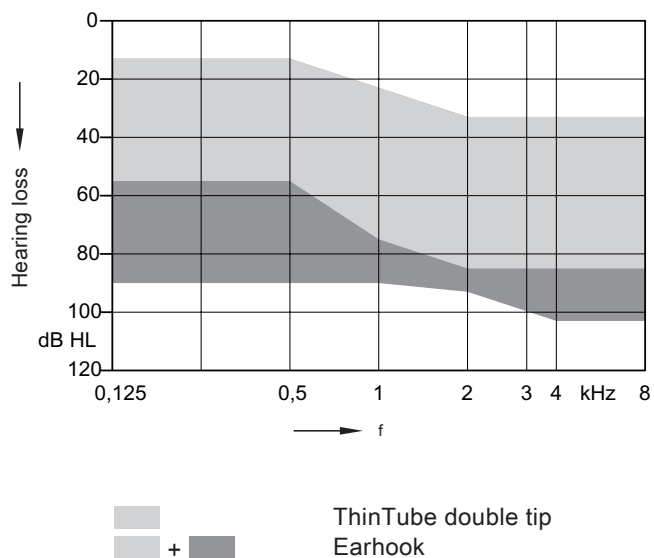
ThinTube

- 61 dB / 130 dB SPL (ear simulator)
- 56 dB / 126 dB SPL (2 ccm coupler)

TH Premium/Advanced STD BTE 19 | Technical Data

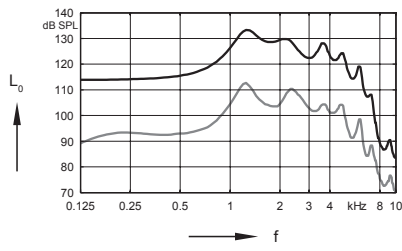
Type	Earhook		ThinTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	137 dB SPL	–	123 dB SPL
Peak	134 dB SPL	139 dB SPL	126 dB SPL	130 dB SPL
HFA-OSPL 90	128 dB SPL	–	117 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	63 dB	–	53 dB
Full on gain (Peak)	63 dB	70 dB	56 dB	61 dB
HFA-FOG	55 dB	–	48 dB	–
Reference test gain	51 dB	56 dB	40 dB	47 dB
Frequency, noise and directivity				
Frequency range Premium	100 - 7500 Hz	640 - 7800 Hz	100 - 7800 Hz	110 - 8800 Hz
Advanced	100 - 7500 Hz	640 - 7800 Hz	100 - 7800 Hz	110 - 8100 Hz
Equivalent input noise	16 dB SPL	16 dB SPL	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 2 / 1 / 1 %	3 / 2 / 1 / – %	1 / 1 / 2 / 1 %	1 / 2 / 3 / – %
Tinnitus therapy broadband	70 dB SPL	–	70 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	93 dB SPL	–	85 dB SPL
HFA MASL (1 mA/m)	86 dB SPL	–	79 dB SPL	–
HFA SPLITS (left/right)	110 / 110 dB SPL	–	100 / 100 dB SPL	–
RSETS (left/right)	0 / 0 dB	–	0 / 0 dB	–
HFA SPLIV	110 dB SPL	–	100 dB SPL	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.4 mA	1.4 mA	2.0 mA	2.8 mA
Battery life (cell zinc air)	~126 h		~126 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	

TH Premium/Advanced STD BTE 19 | Fitting Range



Earhook | Basic Data

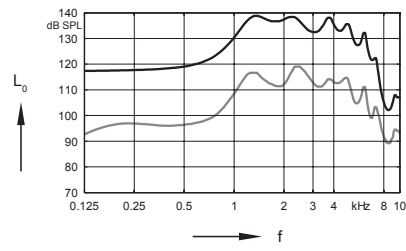
2 ccm coupler



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

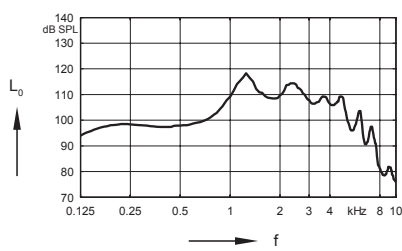
Full on gain
($L_1 = 50$ dB)

Ear simulator

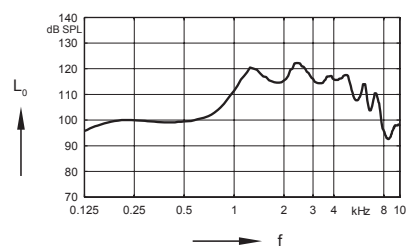


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

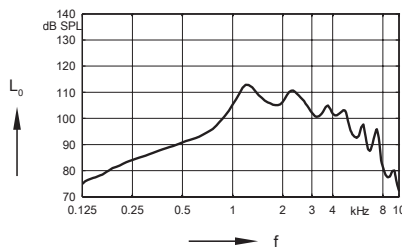


Frequency response
($L_1 = 60$ dB)

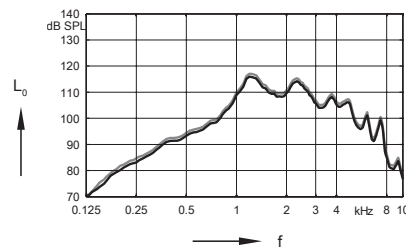


Basic acoustic response
($L_1 = 60$ dB)

Inductive response

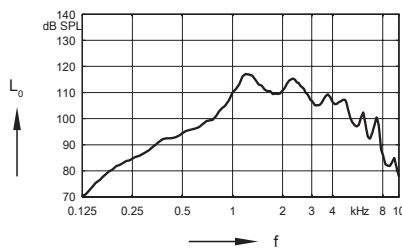


Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)

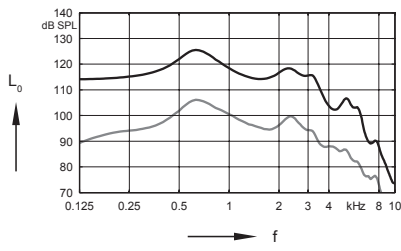
SPLITS curve right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

ThinTube | Basic Data

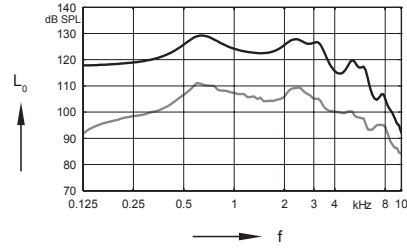
2 ccm coupler



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

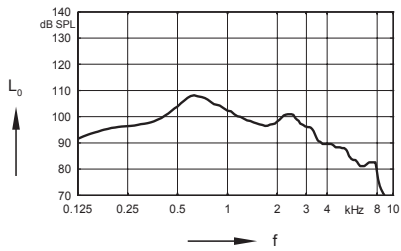
Full on gain
($L_1 = 50$ dB)

Ear simulator

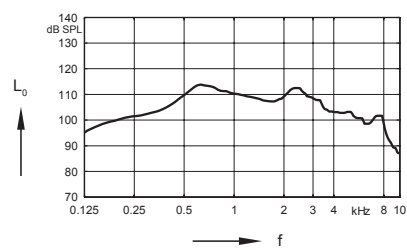


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

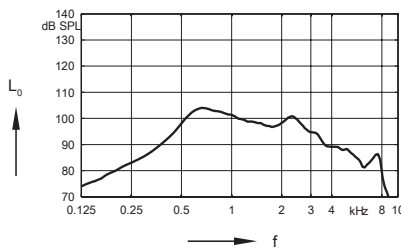


Frequency response
($L_1 = 60$ dB)

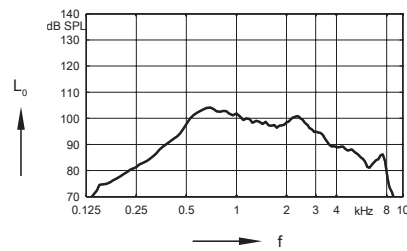


Basic acoustic response
($L_1 = 60$ dB)

Inductive response

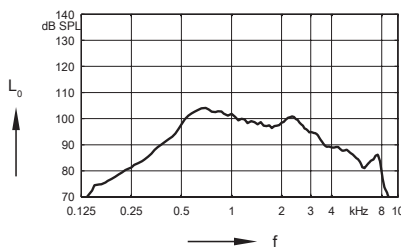


Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

TH Premium/Advanced STD BTE 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 STD BTE 19 | Features and Accessories

	Premium / Advanced
Style specific features	
Ingress Protection Rating	IP68
Charging contacts	—
Battery Size	13
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	size 13
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 60118-7:2015 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:
 - Earhook
 - ThinTube
- ▶ 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. Fronrunner Blvd
Draper, UT 84020
United States

Order No. 03779-99T1-7600, SI/18934-19
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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.

STD BTE 19: Premium/Advanced
Behind-the-Ear 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)

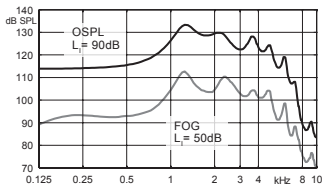
Battery life stated is measured at 65 dB input and reference test gain.

Actual battery life depends on the output level. All tests performed with earhook (damped).

Standard ANSI S3.22 - 2014		2 ccm coupler
Output	Peak OSPL 90 HF - average OSPL 90	134 dB 128 dB
Full-on gain	Peak HF - average Reference test gain	63 dB 55 dB 51 dB
Frequency range	Low frequency limit High frequency limit	100 Hz 7500 Hz
Total harmonic distortion	500 Hz 800 Hz 1600 Hz 3200 Hz	2% 2% 1% 1%
Induction coil sensitivity (HFA-SPLITS*)		110/ 110 dB
Equivalent input noise		16 dB
Battery current drain		1.4 mA
Battery life (typical) #13 zinc air battery		~126 hrs.

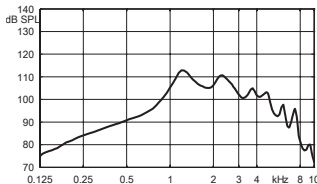
Output Sound Pressure Level

ANSI S3.22-2014



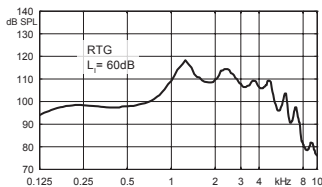
Inductive Response

ANSI S3.22-2014



Frequency Response

ANSI S3.22-2014



Hearing Instruments made in Singapore.
10240789 10/18 1.0 SI/18928-18

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STD BTE 19: Premium/Advanced
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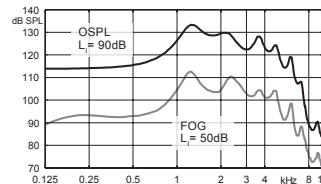
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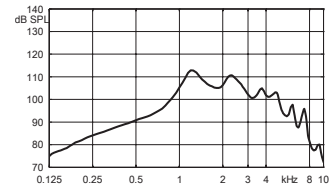
Output Sound Pressure Level

ANSI S3.22-2014



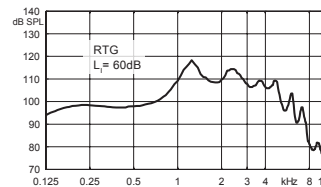
Inductive Response

ANSI S3.22-2014



Frequency Response

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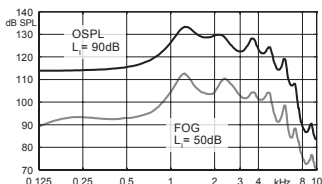
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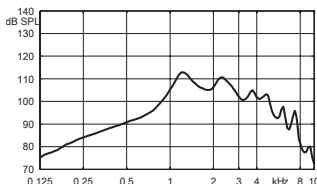
Output Sound Pressure Level

ANSI S3.22-2014



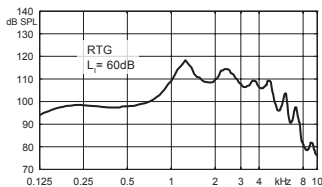
Inductive Response

ANSI S3.22-2014



Frequency Response

ANSI S3.22-2014



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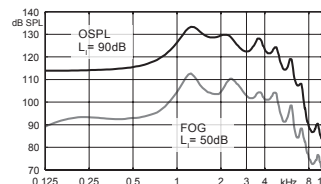
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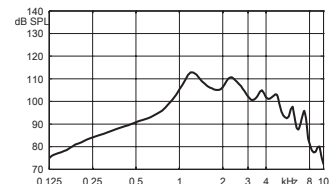
Output Sound Pressure Level

ANSI S3.22-2014



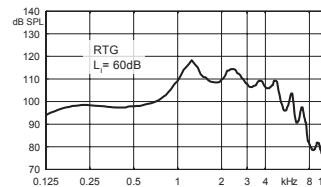
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