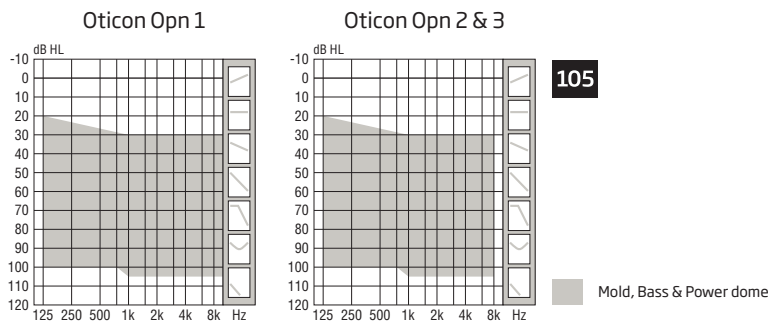


# Technical data sheet

OTICON | **Opn**

BTE13 PP (105)



	Oticon Opn 1	Oticon Opn 2	Oticon Opn 3	
<b>Speech Understanding</b>	OpenSound Navigator™	Level 1	Level 2	Level 3
	- Balancing power effect	100%	50%	50%
	- Max. noise removal	9 dB	5 dB	3 dB
	Speech Guard™ LX	Level 1	Level 2	Level 3
	Spatial Sound™ LX	4 estimators	2 estimators	2 estimators
	Soft Speech Booster LX	•	•	•
<b>Sound Quality</b>	Speech Rescue™ LX	•	•	•
	Clear Dynamics	•	•	-
	Binaural Noise Management	•	•	-
	Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
	Processing Channels	64	48	48
<b>Listening Comfort</b>	Bass Boost (streaming)	•	•	•
	Transient Noise Management	4 configurations	On/Off	On/Off
	Feedback shield LX	•	•	•
<b>Personalization &amp; Optimizing Fitting</b>	Wind Noise Management	•	•	•
	YouMatic™ LX	3 configurations	2 configurations	1 configuration
	Fitting Bands	16	14	12
	Multiple Directionality Options	•	•	•
	Adaptation Management	•	•	•
	Oticon Firmware Updater	•	•	•
<b>Connecting to the World</b>	Fitting Formulas	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0
	Stereo streaming (2.4 GHz)	•	•	•
	Oticon ON App	•	•	•
	ConnectClip	•	•	•
	Remote Control 3.0	•	•	•
	TV Adapter 3.0	•	•	•
	Tinnitus SoundSupport™	•	•	•
Expected battery life, hours**	80-105	80-105	80-105	

\* Bandwidth accessible for gain adjustments during fitting

\*\* Battery size 13 - IEC PR41.

Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

Oticon Opn BTE13 PP features a compact design with a tactile double push button for easy operation of volume and programs. BTE13 PP comes with a telecoil and an optional discreet, two-color LED indicator to monitor hearing aid status.

OpenSound Navigator™ provides better speech understanding by continuously analyzing the environment, balancing all sound sources and attenuating the dominating noise.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity in stereo directly to external digital devices with very low power consumption.

Fully programmable with updatable firmware, the Velox™ platform is ready for the future.

Oticon Opn is a Made for iPhone® hearing aid.

Oticon Opn is built on the new Velox platform, providing frequency resolution in 64 channels (Opn 1).



Oticon Opn is compatible with iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 9.7-inch iPad Pro, 12.9-inch iPad Pro, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, and iPod touch (5th and 6th generation). Devices must be running iOS 9.3 or later. Please visit [www.oticon.com](http://www.oticon.com) for more details on compatibility.



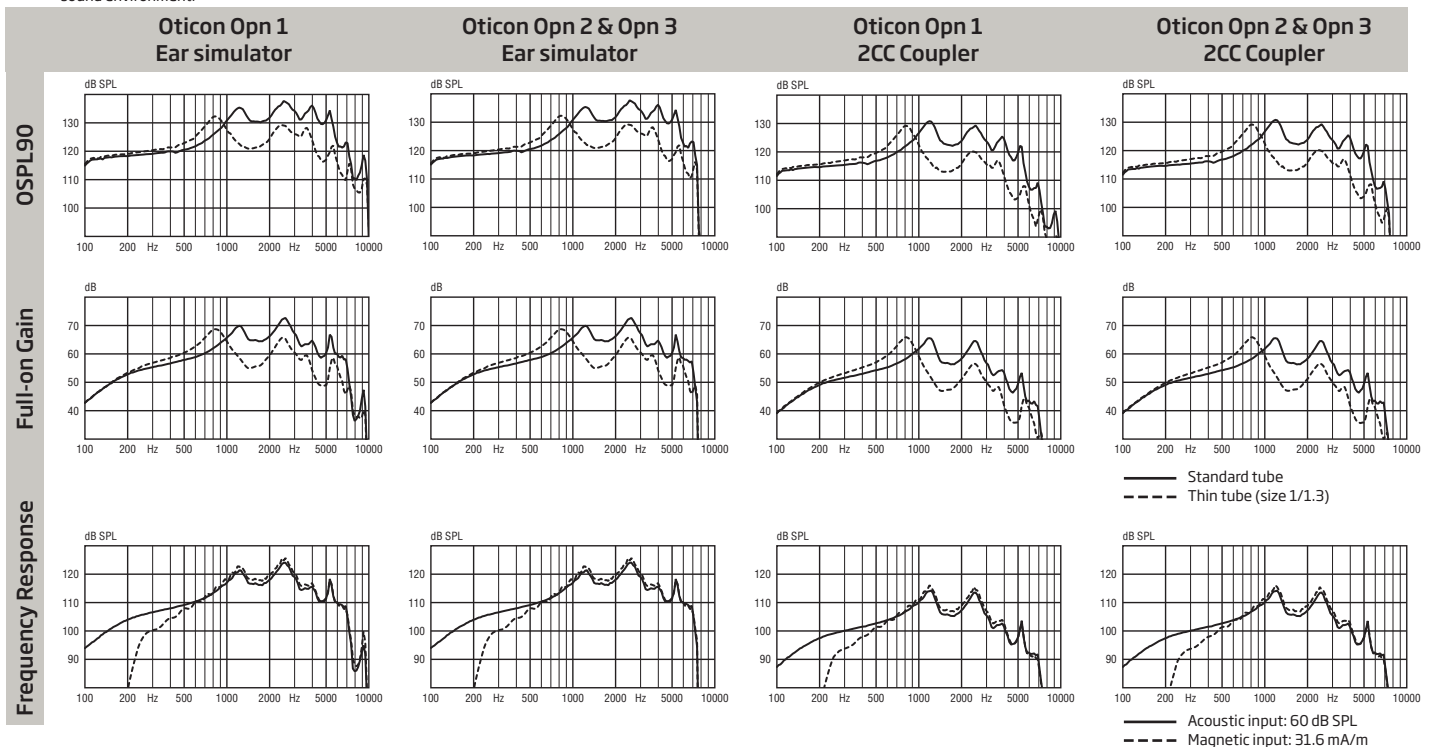
Technical data Measured according to		Ear Simulator IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010			ZCC Coupler ANSI S3.22:2014, IEC 60118-0:2015 and IEC 60318-5:2006		
Oticon Opn BTE13 PP		Opn 1	Opn 2	Opn 3	Opn 1	Opn 2	Opn 3
Frequency range Hz		150-7300			120-7000		
OSPL90	Peak	138 (132*) dB SPL			131 (129*) dB SPL		
	1600 Hz	130 (121*) dB SPL			123 (113*) dB SPL		
	HFA-OSPL90	133 (126*) dB SPL			126 (118*) dB SPL		
Full-on gain**	Peak	73 (69*) dB			66 (66*) dB		
	1600 Hz	65 (56*) dB			57 (47*) dB		
	HFA-FOG	68 (62*) dB			61 (54*) dB		
Reference test gain		57 dB			50 dB		
Telecoil output (1600 Hz)	1 mA/m field	97 dB SPL			-		
	10 mA/m field	117 dB SPL			-		
	SPLITS L/R	-			109/109 dB SPL		
Total harmonic distortion (Input 70 dB SPL)	500 Hz	7 %			3 %		
	800 Hz	5 %			<2 %		
	1600 Hz	<2 %			<2 %		
Equivalent input noise level	Omni	17 dB SPL			14 dB SPL		
	Dir	29 dB SPL			27 dB SPL		
Battery consumption***	Typical	1.8 mA			1.9 mA		
	Quiescent	1.6 mA			1.6 mA		
Battery life, artificial measurement, hours****		175			160		
IRIL (IEC 60118-13:2016)		700/1400/2000 MHz: 18/20/40 dB SPL					

\* For instruments fitted with Corda miniFit Power

\*\* Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A1:1994 but without influence of feedback.

\*\*\* Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of a minimum of 3 minutes.

\*\*\*\* Based on the standardized battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.



Technical information: Omnidirectional mode is used unless otherwise stated.

**Operating conditions**

Temperature: +1°C to +40°C

Relative humidity:

5% to 93%, non-condensing

**Storage and transportation conditions**

Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.

Temperature: -25°C to +60°C

Relative humidity: 5% to 93%, non-condensing

**Instrument warning**

The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.