Call Absolute Hearing Solutions
614-452-4280

OTICON | **Opn S**

Technical data sheet

miniRITE T

60 85 100 105

		Oticon Opn S 1	Oticon Opn S 2	Oticon Opn S 3
Speech Understanding	OpenSound Navigator™	Level 1	Level 2	Level 3
	- Balancing power effect	100%	50%	50%
	- Max. noise removal	9 dB	5 dB	3 dB
	OpenSound Optimizer™	•	•	•
	Speech Guard™ LX	Level 1	Level 2	Level 3
	Spatial Sound™ LX	4 estimators	2 estimators	2 estimators
	Soft Speech Booster LX	•	•	•
	Speech Rescue™ LX	•	•	•
Sound Quality	Clear Dynamics	•	•	-
	Spatial Noise Management	•	•	-
	Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
	Processing Channels	64	48	48
	Bass Boost (streaming)	•	•	•
Listening Comfort	Transient Noise Management	4 configurations	On/Off	On/Off
	Feedback shield LX	•	•	•
	Wind Noise Management	•	•	•
Personalization & Optimizing Fitting	YouMatic™ LX	3 configurations	2 configurations	1 configuration
	Fitting Bands	16	14	12
	Multiple Directionality Options	•	•	•
	Adaptation Management	•	•	•
	Oticon Firmware Updater	•	•	•
	Fitting Formulas	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0
Connecting to the World	Stereo streaming (2.4 GHz)	•	•	•
	Oticon ON App	•	•	•
	ConnectClip	•	•	•
	Remote Control 3.0	•	•	•
	TV Adapter 3.0	•	•	•
	Phone Adapter 2.0	•	•	•
	Tinnitus SoundSupport™	•	•	•

* Bandwidth accessible for gain adjustments during fitting

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

Oticon Opn S™ miniRITE T is a discreet style, based on the popular miniRITE, and features both telecoil and a convenient double push-button for easy volume and program control.

OpenSound Navigator™ helps users to select and understand speech in all types of environments by balancing the sound sources and attenuating noise.

OpenSound Optimizer™ improves users listening experience and comfort by blocking feedback and securing the targeted amplification of sound sources.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

Oticon Opn S is built on the powerful Velox S™ platform which has a programmable firmware architecture, supporting future performance updates.

Oticon BrainHearing™ Technology Powered by Velox S™

TwinLink NFMI + 2.4 GHz

Made for iPhone | iPad | iPod

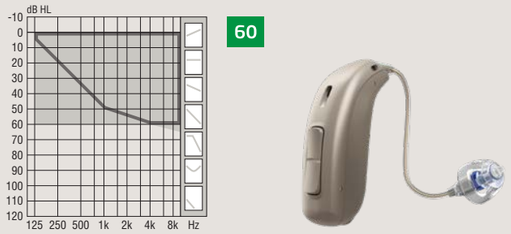
IP68

For information on compatibility, please visit www.oticon.com/support

oticon PEOPLE FIRST

Oticon Opn S 1

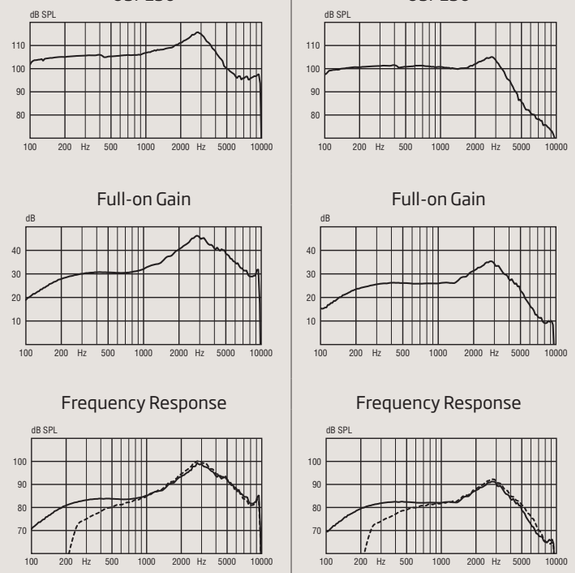
miniRITE T 60



Mold, Bass & Power dome

Open dome

Technical information
Omnidirectional mode is used unless otherwise stated.



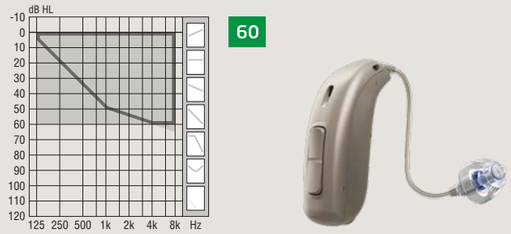
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		Technical data	Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
OSPL90	Peak		116 dB SPL	105 dB SPL
	1600 Hz		109 dB SPL	100 dB SPL
	HFA-OSPL90		110 dB SPL	102 dB SPL
Full-on gain[1]	Peak		46 dB	35 dB
	1600 Hz		37 dB	29 dB
	HFA-FOG		38 dB	30 dB
Reference test gain			30 dB	26 dB
Frequency range			110-9700 Hz	100-9200 Hz
Telecoil output (1600 Hz)	1 mA/m field		67 dB SPL	-
	10 mA/m field		87 dB SPL	-
	SPLITS L/R		-	85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz		<2 %	<2 %
	800 Hz		<3 %	<2 %
	1600 Hz		<2 %	<2 %
Equivalent input noise level	Omni		21 dB SPL	18 dB SPL
	Dir		28 dB SPL	27 dB SPL
Battery consumption[2]	Typical		1.5 mA	1.6 mA
	Quiescent		1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]			120	115
Expected battery life, hours (battery size 312 - IEC PR41)[4]			60-65	
IRIL (IEC 60118-13:2011)			700/1400/2000 MHz: 16/21/26 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 2 & 3

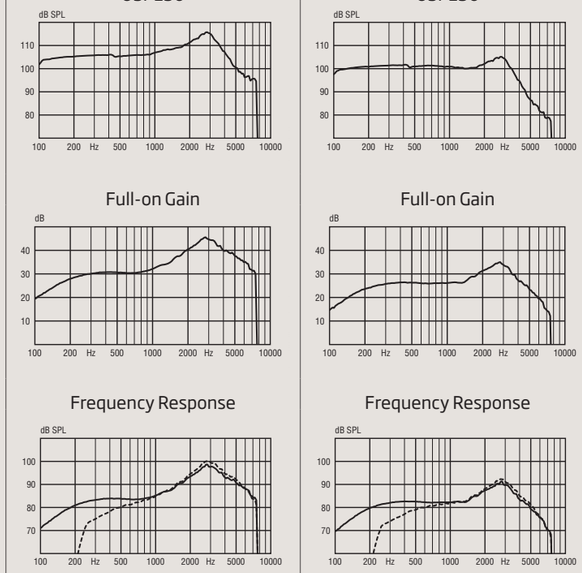
miniRITE T 60



Mold, Bass & Power dome

Open dome

Technical information
Omnidirectional mode is used unless otherwise stated.



Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		Technical data	Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
OSPL90	Peak		116 dB SPL	105 dB SPL
	1600 Hz		109 dB SPL	100 dB SPL
	HFA-OSPL90		110 dB SPL	102 dB SPL
Full-on gain[1]	Peak		46 dB	35 dB
	1600 Hz		37 dB	29 dB
	HFA-FOG		38 dB	30 dB
Reference test gain			30 dB	26 dB
Frequency range			110-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field		67 dB SPL	-
	10 mA/m field		87 dB SPL	-
	SPLITS L/R		-	85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz		<2 %	<2 %
	800 Hz		<3 %	<2 %
	1600 Hz		<2 %	<2 %
Equivalent input noise level	Omni		22 dB SPL	19 dB SPL
	Dir		30 dB SPL	28 dB SPL
Battery consumption[2]	Typical		1.5 mA	1.6 mA
	Quiescent		1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]			120	115
Expected battery life, hours (battery size 312 - IEC PR41)[4]			60-65	
IRIL (IEC 60118-13:2011)			700/1400/2000 MHz: 16/21/26 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 1

miniRITE T 85

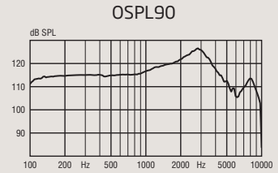
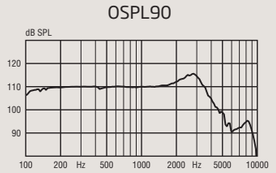
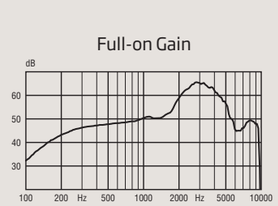
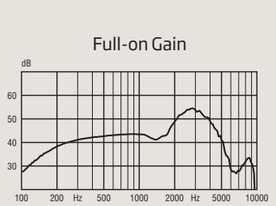
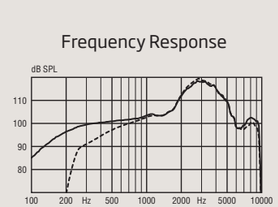
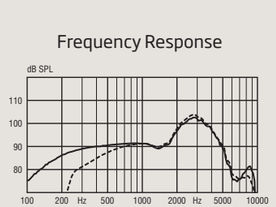
Technical data

Mold, Bass & Power dome

Open dome

Technical information
Omnidirectional mode is used unless otherwise stated.

Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	**2CC Coupler** Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
			
			
	Peak	127 dB SPL	116 dB SPL
OSPL90	1600 Hz	120 dB SPL	111 dB SPL
	HFA-OSPL90	121 dB SPL	112 dB SPL
	Peak	66 dB	54 dB
Full-on gain[1]	1600 Hz	52 dB	43 dB
	HFA-FOG	55 dB	47 dB
Reference test gain		45 dB	34 dB
Frequency range		120-9500 Hz	100-8500 Hz
	1 mA/m field	82 dB SPL	-
Telecoil output (1600 Hz)	10 mA/m field	102 dB SPL	-
	SPLITS L/R	-	94/94 dB SPL
	500 Hz	<2 %	<2 %
Total harmonic distortion (Input 70 dB SPL)	800 Hz	<3 %	<2 %
	1600 Hz	<2 %	<2 %
Equivalent input noise level	Omni	25 dB SPL	20 dB SPL
	Dir	32 dB SPL	29 dB SPL
Battery consumption[2]	Typical	1.6 mA	1.7 mA
	Quiescent	1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]		110	105
Expected battery life, hours (battery size 312 - IEC PR41)[4]		55-65	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 20/20/24 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 2 & 3

miniRITE T 85

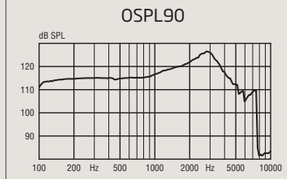
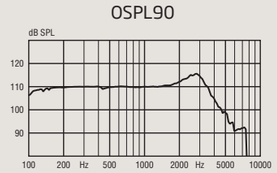
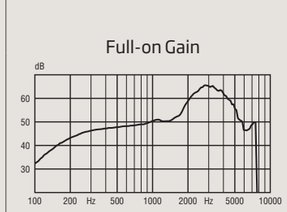
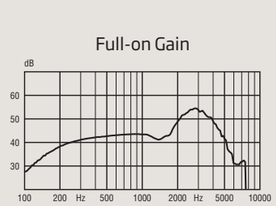
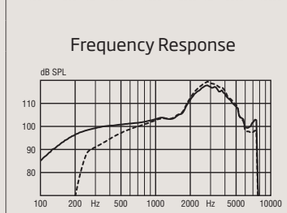
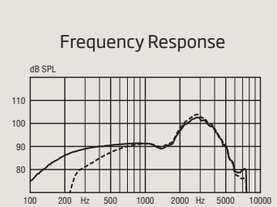
Technical data

Mold, Bass & Power dome

Open dome

Technical information
Omnidirectional mode is used unless otherwise stated.

Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	**2CC Coupler** Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
			
			
	Peak	127 dB SPL	116 dB SPL
OSPL90	1600 Hz	120 dB SPL	111 dB SPL
	HFA-OSPL90	121 dB SPL	112 dB SPL
	Peak	66 dB	54 dB
Full-on gain[1]	1600 Hz	52 dB	43 dB
	HFA-FOG	55 dB	47 dB
Reference test gain		45 dB	34 dB
Frequency range		120-7500 Hz	100-7500 Hz
	1 mA/m field	82 dB SPL	-
Telecoil output (1600 Hz)	10 mA/m field	102 dB SPL	-
	SPLITS L/R	-	94/94 dB SPL
	500 Hz	<2 %	<2 %
Total harmonic distortion (Input 70 dB SPL)	800 Hz	<3 %	<2 %
	1600 Hz	<2 %	<2 %
Equivalent input noise level	Omni	26 dB SPL	21 dB SPL
	Dir	33 dB SPL	30 dB SPL
Battery consumption[2]	Typical	1.6 mA	1.7 mA
	Quiescent	1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]		110	105
Expected battery life, hours (battery size 312 - IEC PR41)[4]		55-65	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 20/20/24 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 1

miniRITE T 100

Technical data

Power Receiver Mold, Bass & Power dome

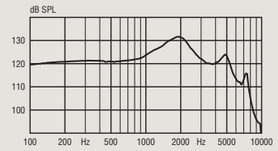
Technical information
Omnidirectional mode is used unless otherwise stated.

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 aid user.

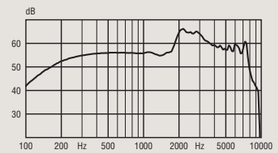
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Ear Simulator
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010

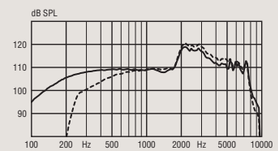
OSPL90



Full-on Gain

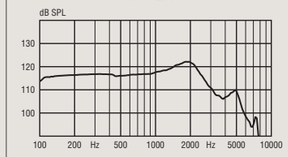


Frequency Response

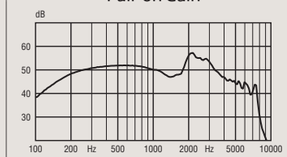


2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

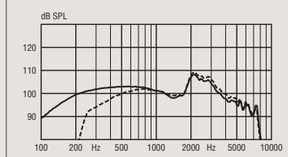
OSPL90



Full-on Gain



Frequency Response



		Ear Simulator	2CC Coupler
OSPL90	Peak	132 dB SPL	122 dB SPL
	1600 Hz	130 dB SPL	121 dB SPL
	HFA-OSPL90	127 dB SPL	118 dB SPL
Full-on gain[1]	Peak	66 dB	57 dB
	1600 Hz	56 dB	48 dB
	HFA-FOG	59 dB	51 dB
Reference test gain		49 dB	42 dB
Frequency range		100-8500 Hz	100-8000 Hz
Telecoil output (1600 Hz)	1 mA/m field	86 dB SPL	-
	10 mA/m field	106 dB SPL	-
	SPLITS L/R	-	103/103 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	<7 %	<2 %
	800 Hz	<4 %	<2 %
	1600 Hz	<2 %	<2 %
Equivalent input noise level	Omni	23 dB SPL	19 dB SPL
	Dir	32 dB SPL	30 dB SPL
Battery consumption[2]	Typical	1.5 mA	1.7 mA
	Quiescent	1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]		115	105
Expected battery life, hours (battery size 312 - IEC PR41)[4]		50-65	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 18/21/28 dB SPL	

1) 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.
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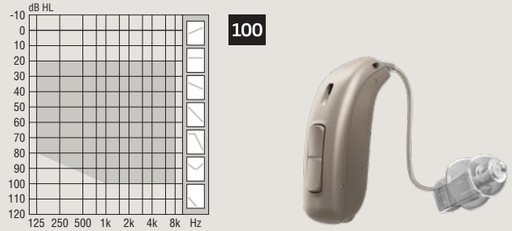
3) Based on the standardized battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with 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 S 2 & 3

miniRITE T 100

Technical data



Power Receiver Mold, Bass & Power dome

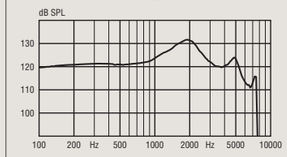
Technical information
Omnidirectional mode is used unless otherwise stated.

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 aid user.

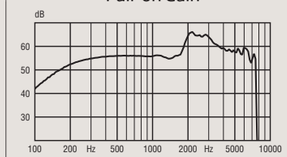
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Ear Simulator
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010

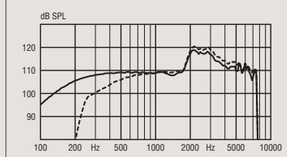
OSPL90



Full-on Gain

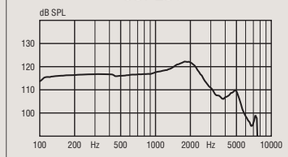


Frequency Response

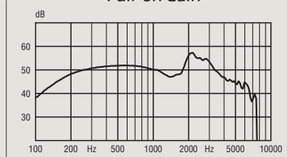


2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

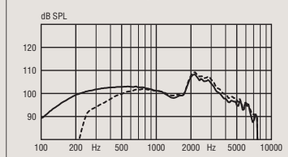
OSPL90



Full-on Gain



Frequency Response



		Ear Simulator	2CC Coupler
OSPL90	Peak	132 dB SPL	122 dB SPL
	1600 Hz	130 dB SPL	121 dB SPL
	HFA-OSPL90	127 dB SPL	118 dB SPL
Full-on gain[1]	Peak	66 dB	57 dB
	1600 Hz	56 dB	48 dB
	HFA-FOG	59 dB	51 dB
Reference test gain		49 dB	42 dB
Frequency range		100-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field	86 dB SPL	-
	10 mA/m field	106 dB SPL	-
	SPLITS L/R	-	103/103 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	<7 %	<2 %
	800 Hz	<4 %	<2 %
	1600 Hz	<2 %	<2 %
Equivalent input noise level	Omni	23 dB SPL	19 dB SPL
	Dir	32 dB SPL	30 dB SPL
Battery consumption[2]	Typical	1.5 mA	1.7 mA
	Quiescent	1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]		115	105
Expected battery life, hours (battery size 312 - IEC PR41)[4]		50-65	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 18/21/28 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 1

miniRITE T 105

Technical data

Power Receiver Mold

Technical information
Omnidirectional mode is used unless otherwise stated.

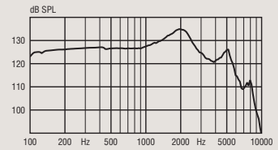
Instrument warning
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

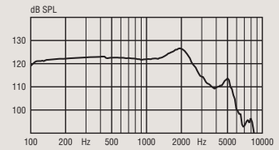
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Ear Simulator
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010

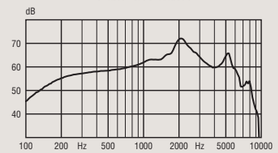
2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

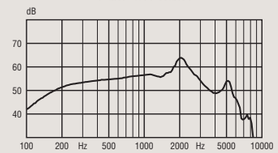
OSPL90



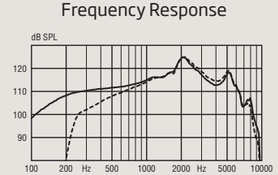


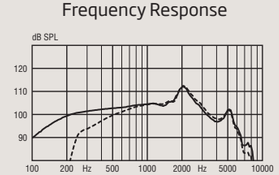
Full-on Gain





Frequency Response





		Peak	135 dB SPL	127 dB SPL
OSPL90		1600 Hz	132 dB SPL	125 dB SPL
		HFA-OSPL90	130 dB SPL	122 dB SPL
Full-on gain[1]		Peak	72 dB	64 dB
		1600 Hz	65 dB	57 dB
		HFA-FOG	65 dB	57 dB
Reference test gain			58 dB	46 dB
Frequency range			100-8200 Hz	100-7800 Hz
Telecoil output (1600 Hz)		1 mA/m field	96 dB SPL	-
		10 mA/m field	116 dB SPL	-
		SPLITS L/R	-	105/105 dB SPL
Total harmonic distortion (Input 70 dB SPL)		500 Hz	<2 %	<2 %
		800 Hz	<2 %	<2 %
		1600 Hz	<3 %	<2 %
Equivalent input noise level		Omni	18 dB SPL	18 dB SPL
		Dir	28 dB SPL	29 dB SPL
Battery consumption[2]		Typical	1.6 mA	1.7 mA
		Quiescent	1.5 mA	1.5 mA
Battery life, artificial measurement, hours[3]			110	105
Expected battery life, hours (battery size 312 - IEC PR41)[4]			45-65	
IRIL (IEC 60118-13:2011)			700/1400/2000 MHz: 38/18/39 dB SPL	

1) 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.
2) 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 minimum 3 minutes.
3) 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.
4) 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 S 2 & 3

miniRITE T 105

Technical data

Power Receiver Mold

Technical information
Omnidirectional mode is used unless otherwise stated.

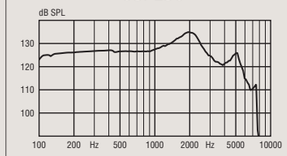
Instrument warning
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

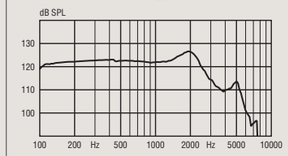
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Ear Simulator
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010

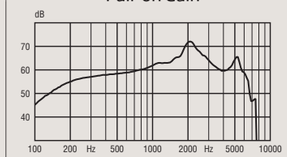
2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

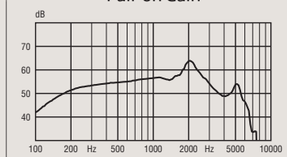
OSPL90



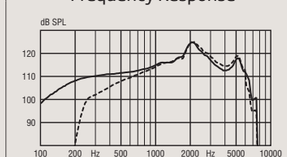


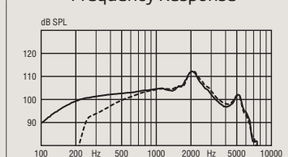
Full-on Gain





Frequency Response





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Notes

Notes

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