

1. Ergonomic Ear-hook
2. Microphone
3. Programs Push Button
4. Programming connector
5. Volume control
6. Battery Door (Type 13)
7. Thin Tube

## DESCRIPTION

According to the Amplex family, Amplex BTE is a fully digital programmable hearing aid with WDRC processing strategy. Its 6 totally independent channels offer to the hearing care professional an easier fitting process with high reliability.

## INTENDED USE

The Microson Amplex BTE hearing instrument is indicated to compensate mild to severe hearing loss (mixed or neurosensorial) hearing loss and acute loss with preserved low-frequencies (mixed or sensorineural). It is not suitable for children or mentally disabled people.

See fitting range<sup>1</sup>.

## Features

- ✓ Matrix 128/58 @ 2cc (Standard Fitting)
- ✓ Matrix 124/52 @ 2cc (Thin Tube Fitting)
- ✓ Suitable for Open Fit applications
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ 12 Bands
- ✓ 6 Channels WDRC
- ✓ 6 Maximum Output Control Channels
- ✓ 3 Memories
- ✓ Automatic Feedback Canceller
- ✓ Noise Reduction
- ✓ Telecoil
- ✓ Digital Volume Control
- ✓ Memory Change Indicator
- ✓ Switch off Battery Door
- ✓ Low Battery Indicator
- ✓ Nanoproof Coating<sup>(3)</sup>
- ✓ Degree of Protection IP57 (IEC 60529)
- ✓ Small Size
- ✓ Suitable for cell phones<sup>(4)</sup>
- ✓ Battery 13 Type - PR48 (IEC 60086)
- ✓ Low Battery current drain

## Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher)
- 53781, 4 Pin Hi-Pro Cable Right
- 53832, 4 Pin Hi-Pro Cable Left
- 88616, HI-PRO<sup>A</sup>2 Hearing Instrument Programmer (Firmware 4.00 or higher) or 73194, HI-PRO<sup>A</sup> USB Hearing Instrument Programmer (Firmware 3.00 or higher) or 6183, NOAHLINK<sup>B</sup> Programming Interface (Kernel v. 1.55.03).

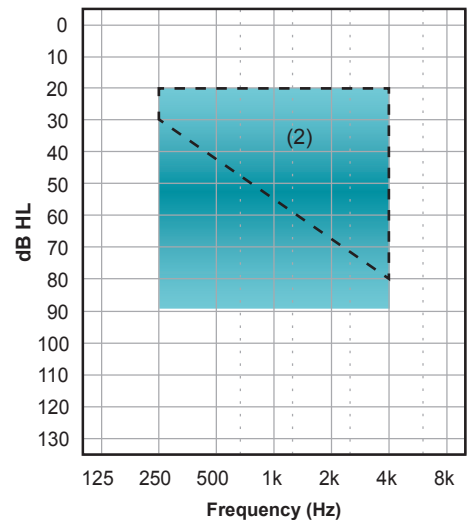
<sup>(3)</sup> Nanometric Coating protection against intrusion of particles

<sup>(4)</sup> In compliance with IEC 60118-13:2011

<sup>A</sup>HI-PRO USB is a registered trademark of GN Otometrics A/S in Denmark.

<sup>B</sup>NOAH & NOAHLINK are licensed products and registered trademarks of HIMSA A/S in Denmark.

Fitting Range<sup>(1)</sup>



(2) OPEN FIT mode

	Datos Acústicos	STANDARD EAR-HOOK		THIN TUBE	
		IEC 60118-7:2005 IEC 60118-0:2015	IEC 60118-0:1983/ A1:1994	IEC 60118-7:2005 IEC 60118-0:2015	IEC 60118-0:1983/ A1:1994
OUTPUT	OSPL <sup>1</sup> 90 Peak (dB <sub>SPL</sub> )	128	131	124	127
	OSPL 90 Peak Frequency (Hz)	1300	4000	700	700
	HFA <sup>2</sup> / RTF <sup>3</sup> OSPL 90 (dB <sub>SPL</sub> )	119	128	108	112
GAIN	HFA-FOG (dB)	49	56	39	46
	RTF-FOG (dB)	50	58	33	41
	FOG (dB)	58	65	52	55
	FOG Frequency (Hz)	1300	4000	700	700
	RTG (Reference Test Gain) (dB)	41	53	32	37
NOISE	Equivalent Input Noise (dB <sub>SPL</sub> )	17	18	28	25
AGC <sup>4</sup>	Attack Time (ms)	1	1	1	1
	Release Time(ms)	7	8	11	6
TELECOIL	ETLS <sup>5</sup> @ 31,6 mA/m	102	117	93	101
	HFA-MASL <sup>6</sup> @ 10 mA/m	80	87	69	78
	500 Hz @ 100 mA / m (%)	0.9	1.3	0.1	0.1
	800 Hz @ 100 mA / m (%)	0.9	2.3	0.2	0.5
	1600 Hz @ 100 mA / m (%)	0.2	0.5	0.5	1.0
DISTORTION	500 Hz @ 70 dB <sub>SPL</sub> (%)	0.8	1.0	0.2	0.3
	800 Hz @ 70 dB <sub>SPL</sub> (%)	0.3	0.6	0.1	0.2
	1600 Hz @ 65 / 70 dB <sub>SPL</sub> (%)	1.4	0.3	0.2	0.3
CONSUMPTION	Current Drain (mA)	0.70	0.70	0.73	0.70
FREQUENCY LIMITS	f <sub>1</sub> (Hz)	<100	200*	<100	<100*
	f <sub>2</sub> (Hz)	5900	6100*	5700	5900*
		IEC 60318-5:2006	IEC 60318-4:2010	IEC 60318-5:2006	IEC 60318-4:2010

Power Source: 1.3V Battery Simulator

<sup>1</sup>OSPL: Output Sound Pressure Level

<sup>3</sup>RTF: Reference Test Frequency (1600 Hz)

<sup>5</sup>ETLS: Equivalent Test Loop Sensitivity

\*According to DIN 45605 Standard

<sup>2</sup>HFA: High Frequency Average

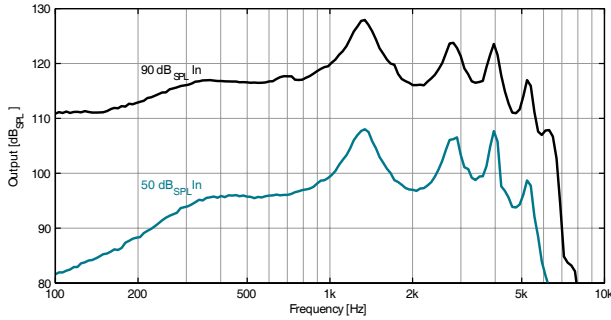
<sup>4</sup>AGC: Automatic Gain Control

<sup>6</sup>MASL: Magneto Acoustical Sensitivity Level

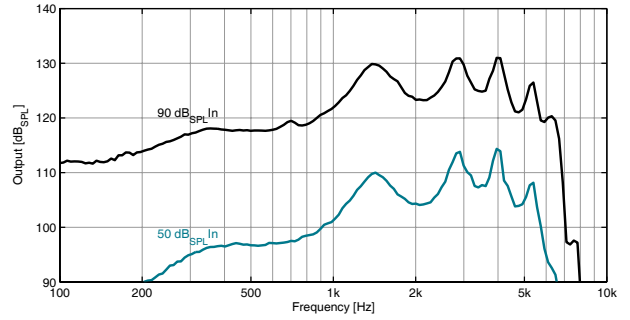
Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on October 2016 and are subject to changes without prior notice.

## STANDARD EAR-HOOK

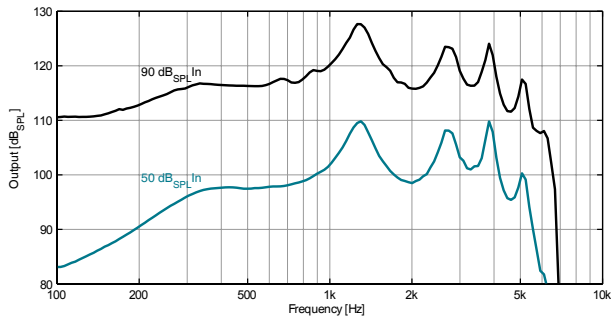
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005 / IEC 60118-0:2015



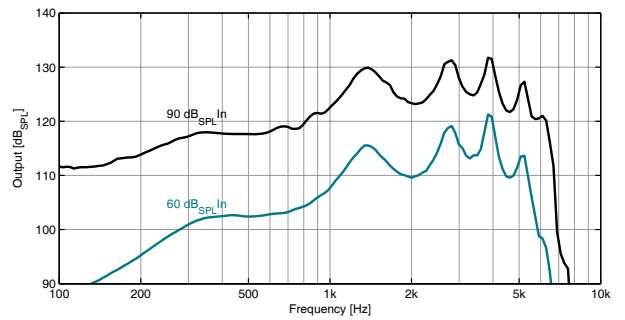
FOG / OSPL90 @ IEC 60118-0:1983/A1:1994



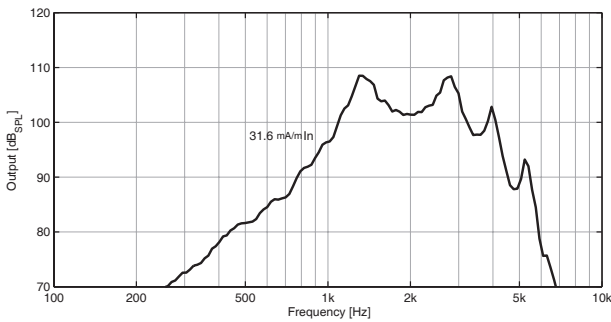
FREQUENCY RESPONSE @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



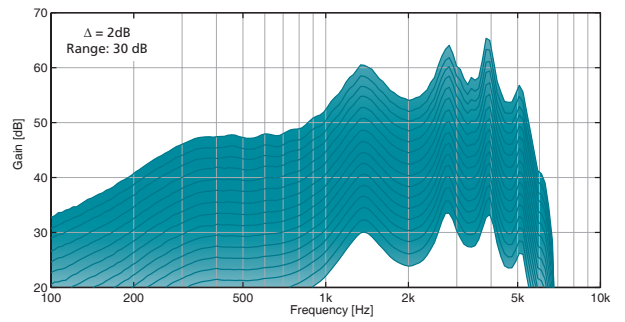
FREQUENCY RESPONSE @ RTG @ IEC 60118-0:1983/A1:1994



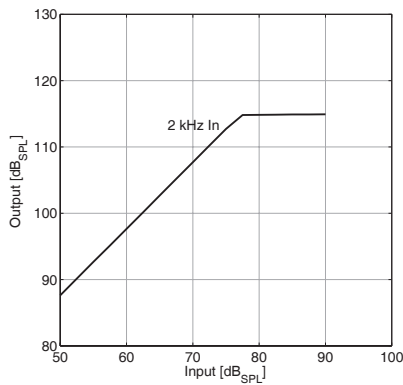
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



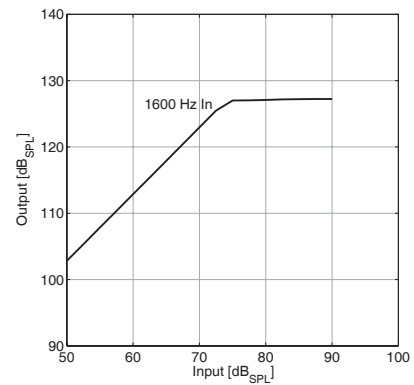
RESP. EN FRECUENCIA @ CTRL. VOL. @ IEC 60118-0:1983/A1:1994



INPUT-OUTPUT @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



INPUT-OUTPUT @ RTG @ IEC 60118-0:1983/A1:1994

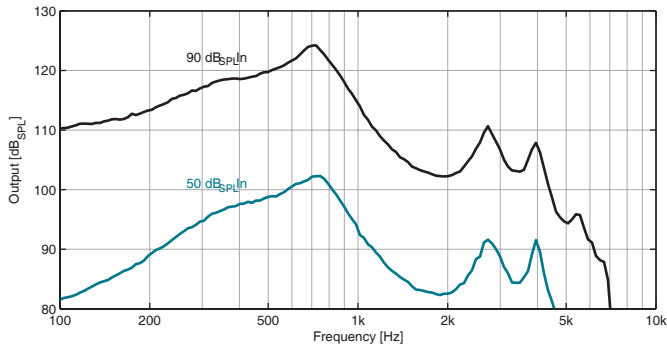


Product Data

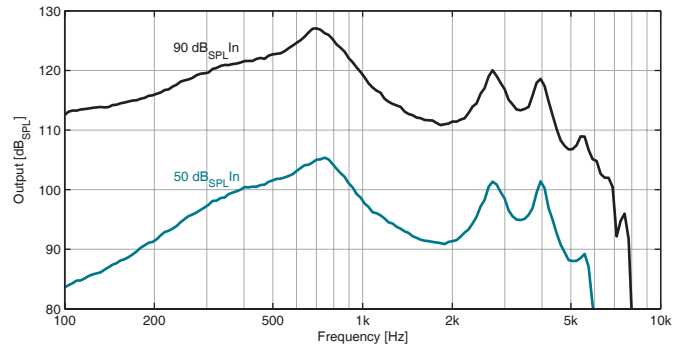
Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on October 2016 and are subject to changes without prior notice.

## THIN TUBE<sup>1</sup>

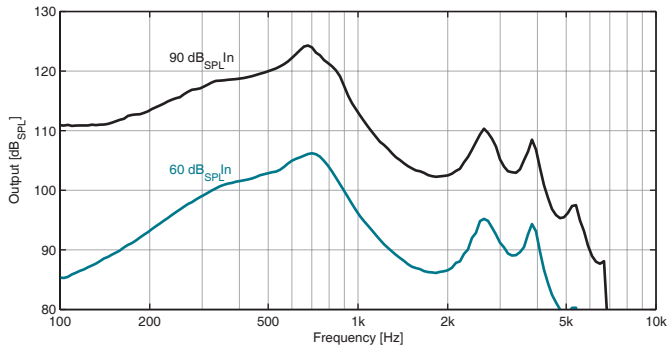
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005 / IEC 60118-0:2015



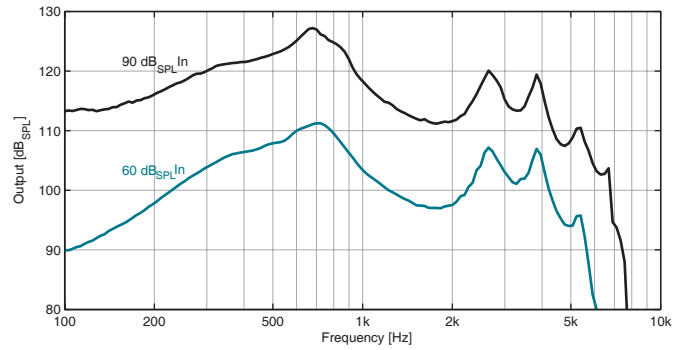
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1983/A1:1994



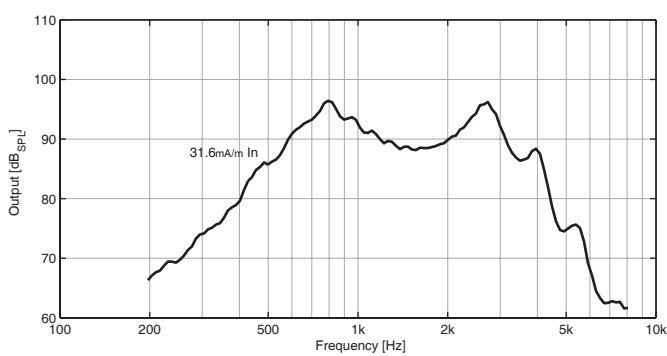
FREQUENCY RESPONSE @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



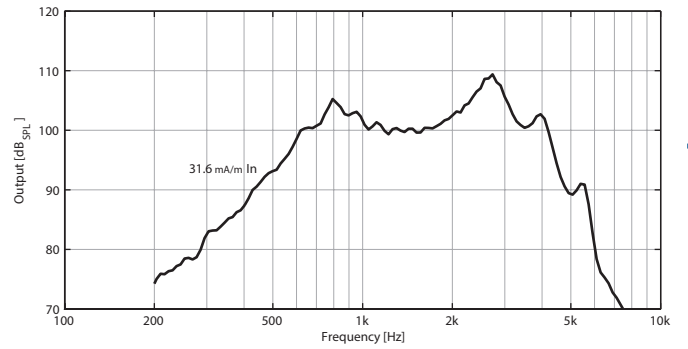
FREQUENCY RESPONSE @ RTG @ IEC 60118-0:1983/A1:1994



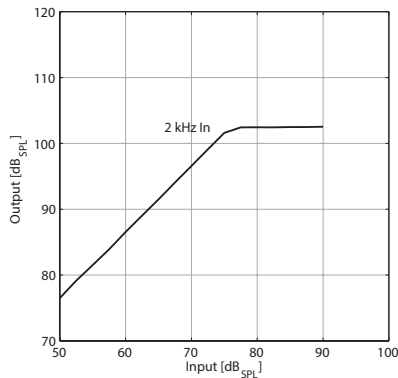
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



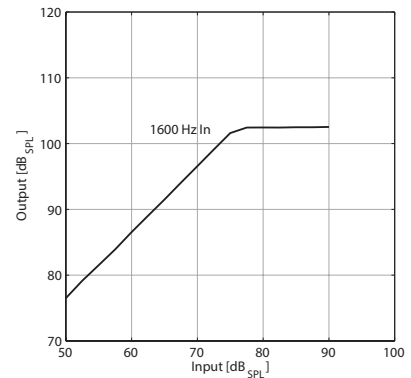
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-0:1983/A1:1994



INPUT-OUTPUT @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



INPUT-OUTPUT @ RTG @ IEC 60118-0:1983/A1:1994



<sup>1</sup>Measurements with occluded coupler

Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on October 2016 and are subject to changes without prior notice.

## Accessories & Spare PaRTG for Professionals

- 94349, Microson Earhook P13 M3 (5 pcs)
- 94583, Microson 13 hearing aid batteries M/Free
- 88852, Windscreen BTE Beige (10 pcs)
- 101675, Microson Label Lid set BTE (red+blue)

## Domes

- 83407 Microson Open Fit Adapter Open 6mm
- 83408 Microson Open Fit Adapter Double Closed 8-10 mm
- 83412 Microson Open Fit Adapter Closed 8 mm
- 83413 Microson Open Fit Adapter Double Closed 10-12mm
- 83414 Microson Open Fit Adapter Open 4mm
- 83419 Microson Open Fit Adapter Open 8mm
- 83420 Microson Open Fit Adapter Open 10mm
- 91189 Microson Open Fit Adapter Semi Open



## Tubes

- 83405 Microson Open Fit Tube N° 1 L
- 83418 Microson Open Fit Tube N° 1 R
- 83411 Microson Open Fit Tube N° 2 L
- 83406 Microson Open Fit Tube N° 2 R
- 83415 Microson Open Fit Tube N° 3 L
- 83410 Microson Open Fit Tube N° 3 R
- 83403 Microson Open Fit Tube N° 4 L
- 83416 Microson Open Fit Tube N° 4 R
- 83409 Microson Open Fit Tube N° 5 L
- 83404 Microson Open Fit Tube N° 5 R
- 83417 Microson Open Fit Tube N° 6 L
- 83421 Microson Open Fit Tube N° 6 R

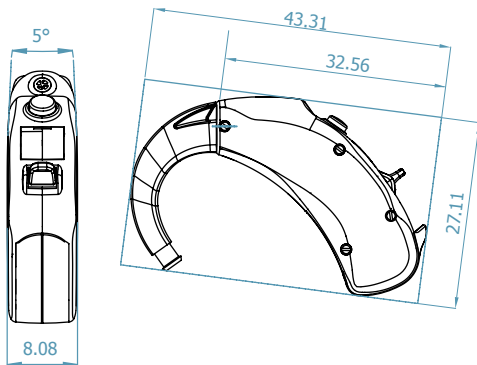
## Accessories & Spare PaRTG for End User

- 91118, Brush Cleaner
- 99467, Microson Wipe
- 99535, Microson Microbox ONE case
- 94583, Microson 13 hearing aid batteries M/Free

## Accompanying Documentation

102735, User's manual Microson Microson Amplex, Amplex 80, Amplex 800, Amplex 1600


## Weight & Dimensions



Weight excluding battery: 3,6 gr  
 Weight including battery: 4,4 gr  
 Dimensions in millimeters (mm)

## HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD




### Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 This symbol indicates that the products described in these user instructions adhere to the requirements for an application part of Type B of IEC 60601-2-66. The surface of the hearing aid is specified as an applied part of Type B.
Working Method	CONTINUOUS WORKING

### Power Supply Electrical Features

Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage (Standard Ear-Hook / Thin Tube)	0.70 / 0.70 mA
Battery Nomenclature (IEC 60086)	PR48

### Environmental conditions

		Operation		Storage / Transport	
		Min.	Max.	Min.	Max.
	Temperature [T (°C)]	0	40	-20	60
	Relative humidity [RH (%)]	10	95	10	95
	Atmospheric pressure [P (hPa)]	500*	1100*	500*	1100*

\*Avoid rapid pressure changes

PRODUCT	REFERENCE	MODEL	GTIN-13
AMPLEX BTE	78173	AMPLEX BTE	8435281305902

GMDN Code: 34671