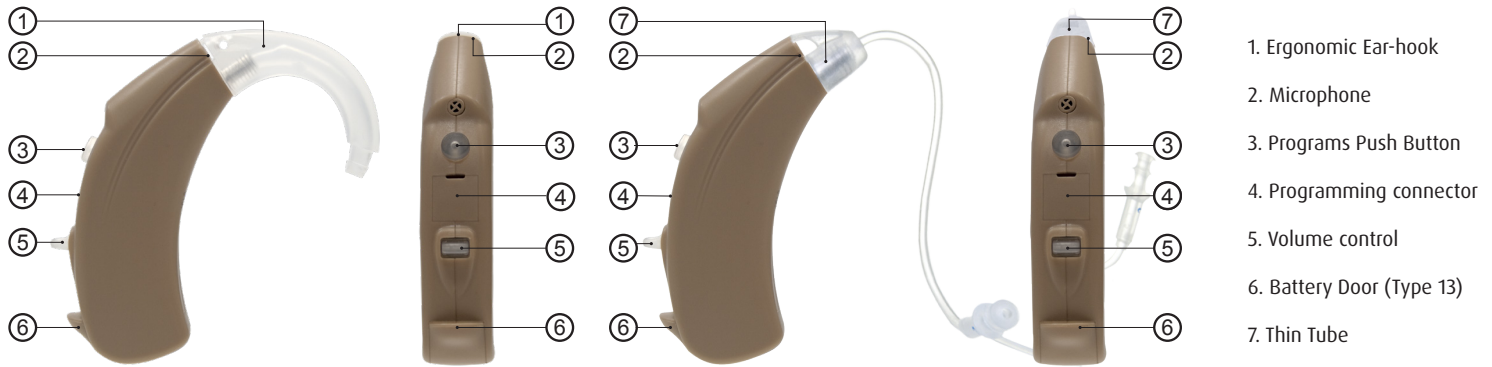


Amplex 80 PRO BTE microson



Description

Behind-The-Ear air conduction digital hearing aid (BTE), Battery 13, programmable through fitting software, WDRC strategy.

Intended Use

The MICROSON Amplex 80 Pro BTE hearing aids are indicated to compensate from mild to severe hearing loss (transmissive, mixed or sensorineural) and acute loss with preserved low-frequencies (mixed or sensorineural). Its use is not intended for children or people with mental disabilities.

See Fitting Range ⁽¹⁾

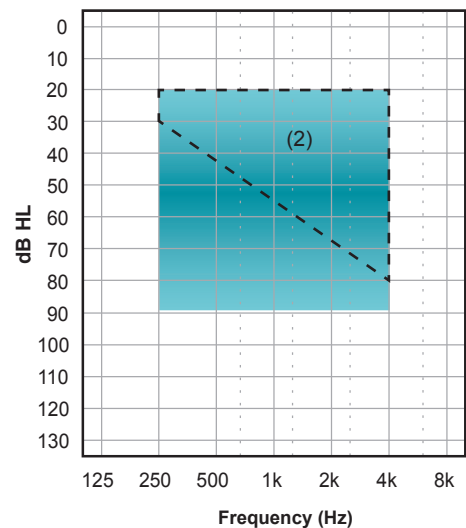
Features

- ✓ Matrix 128/59 @ 2cc (Standard Fitting)
- ✓ Matrix 123/52 @ 2cc (Thin Tube Fitting)
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ 8 independent WDRC Channels
- ✓ 23 Bands Equalizer
- ✓ Maximum Output Control (MPO)
- ✓ Automatic Noise Reduction (128 Bands)
- ✓ Automatic Feedback Canceller (OPTIMIZER)
- ✓ Noise Generator for Tinnitus Treatment (TRT)
- ✓ Digital volume control
- ✓ 4 Memories
- ✓ Telecoil
- ✓ Datalogging
- ✓ Memory Change and Low Battery Indicator
- ✓ Configurable Power on Delay
- ✓ Switch OFF through Battery Door
- ✓ Nanoproof Coating⁽³⁾
- ✓ Degree of Protection IP57 (IEC 60529)
- ✓ Suitable for Mobile Phones⁽⁴⁾
- ✓ Battery 13 Type PR48 (IEC 60086)
- ✓ Low Battery current drain

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.7.0 or higher)
- 53781, CS63 Hi-Pro Cable Right
- 53832, CS63 Hi-Pro Cable Left
- 73194, HI-PRO^A USB Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO^A 2 Programmer (Firmware 4.00 or higher)
- 66183, NOAHLINK^B Programmer (Kernel v. 1.55.03)

⁽¹⁾ Fitting Range



(2) OPEN FIT mode

Product Data

(3) Nanometric Coating protection against intrusion of particles

(4) In compliance with IEC 60118-13:2011

(A)HI-PRO is a registered trademark of GN Otometrics A/S in Denmark.

(B)NOAH & NOAHLINK are licensed products and registered trademarks of HIMSA A/S in Denmark.

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Amplex 80 PRO BTE

	Acoustic Data	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 ¹ 90 Peak (dB _{SPL})	128	133	123	124
	OSPL 90 Peak Frequency (Hz)	1400	4100	700	700
	HFA ² / RTF ³ OSPL 90 (dB _{SPL})	119	129	108	109
GAIN	HFA-FOG (dB)	49	55	38	44
	RTF-FOG (dB)	51	59	33	40
	FOG (dB)	59	65	52	54
	FOG Frequency (Hz)	1400	4200	700	700
	RTG (Reference Test Gain) (dB)	41	53	31	34
NOISE	Equivalent Input Noise (dB _{SPL})	9	12	15	15
AGC ⁴	Attack Time (ms)	1	3	1	2
	Release Time(ms)	452	175	517	131
TELECOIL	ETLS ⁵ @ 31,6 mA/m	100	114	92	95
	HFA-MASL ⁶ @ 10 mA/m	79	86	69	75
	500 Hz @ 100 mA / m (%)	1,4	2,1	0,3	0,5
	800 Hz @ 100 mA / m (%)	0,4	1,4	0,1	0,2
	1600 Hz @ 100 mA / m (%)	0,2	0,4	0,2	0,4
DISTORTION	500 Hz @ 70 dB _{SPL} (%)	0,5	1,4	1,2	0,2
	800 Hz @ 70 dB _{SPL} (%)	0,4	0,9	3,9	0,2
	1600 Hz @ 65 / 70 dB _{SPL} (%)	0,2	0,3	0,2	0,4
CONSUMPTION	Current Drain (mA)	0,52	0,51	0,52	0,50
FREQUENCY LIMITS	f ₁ (Hz)	<100	200*	<100	<100*
	f ₂ (Hz)	6200	6300*	5900	7200*
	Power Source: 1.3V Battery Simulator	IEC 60318-5:2006	IEC 60318-4:2010	IEC 60318-5:2006	IEC 60318-4:2010

¹OSPL: Output Sound Pressure Level

²HFA: High Frequency Average

³RTF: Reference Test Frequency (1600 Hz)

⁴AGC: Automatic Gain Control

⁵ETLS: Equivalent Test Loop Sensitivity

⁶MASL: Magneto Acoustical Sensitivity Level

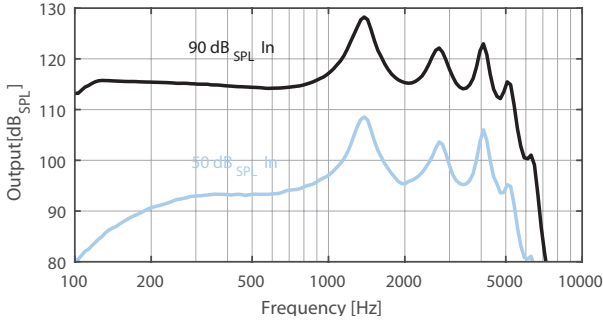
*According to DIN 45605 Standard

Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2018 and are subject to changes without prior notice.

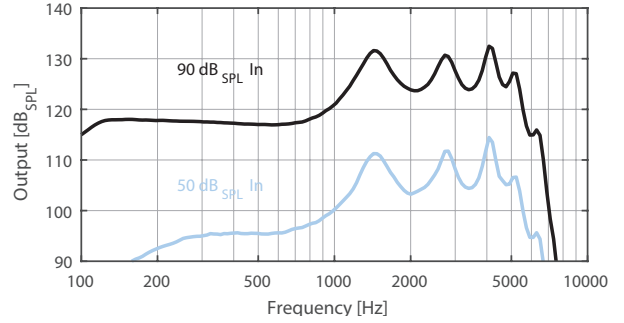
Amplex 80 PRO BTE microson

STANDARD EAR-HOOK

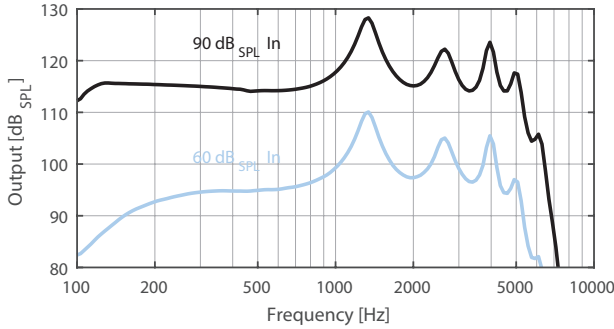
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005 / IEC 60118-0:2015



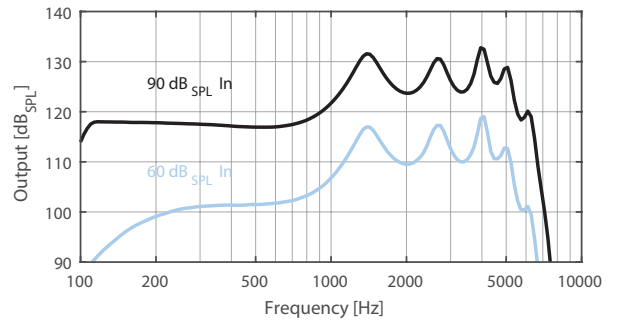
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



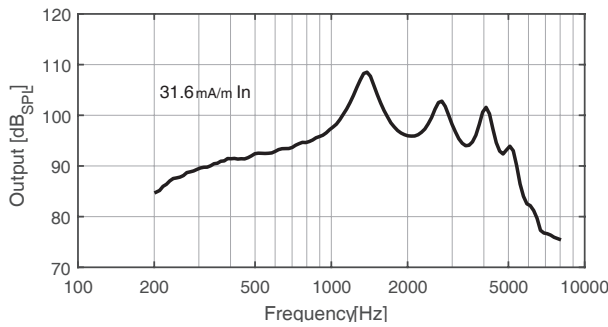
FREQUENCY RESPONSE @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



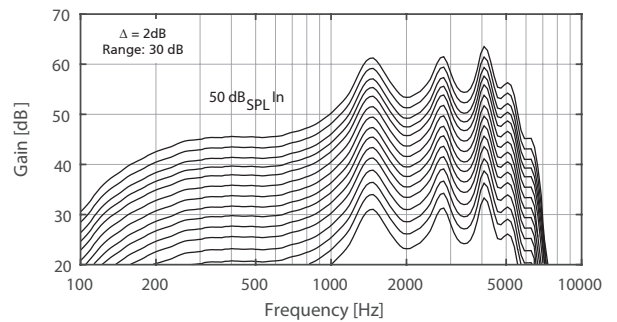
FREQUENCY RESPONSE @ RTG @ IEC 60118-0:1983/A1:1994



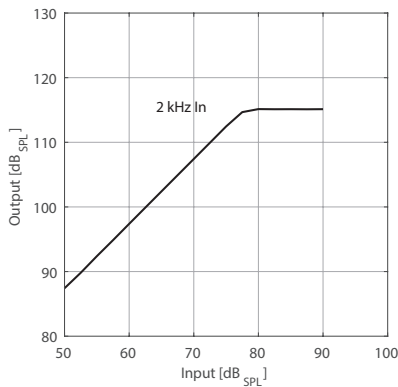
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



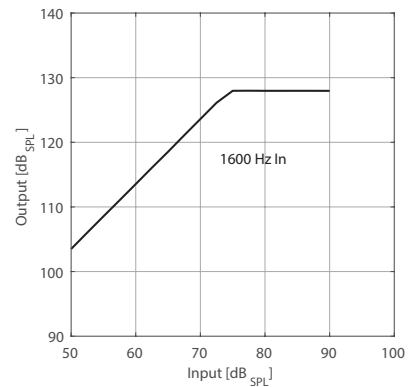
FREQUENCY RESPONSE @ VOL. CTRL. @ IEC 60118-7:2005



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



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



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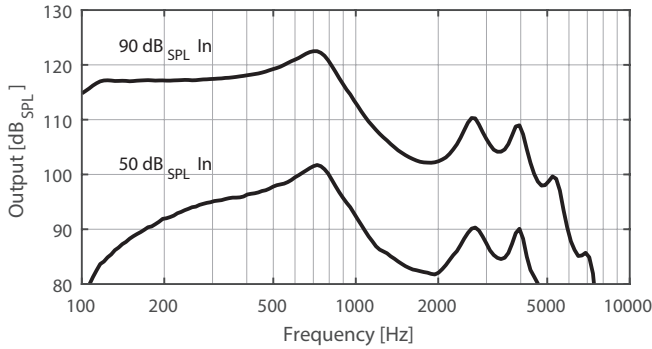
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Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2018 and are subject to changes without prior notice.

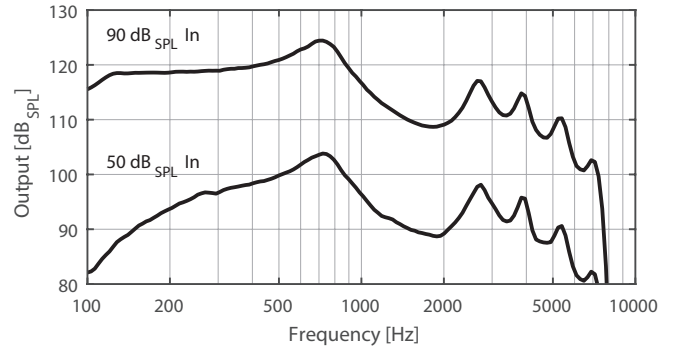
Amplex 80 PRO BTE microson

THIN TUBE¹

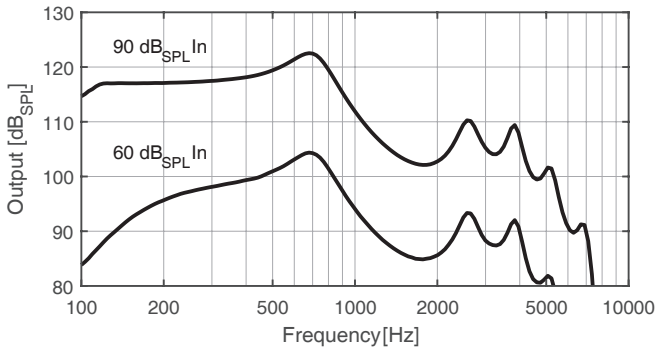
FOG / OSPL90 @ IEC 60118-7:2005 / IEC 60118-0:2015



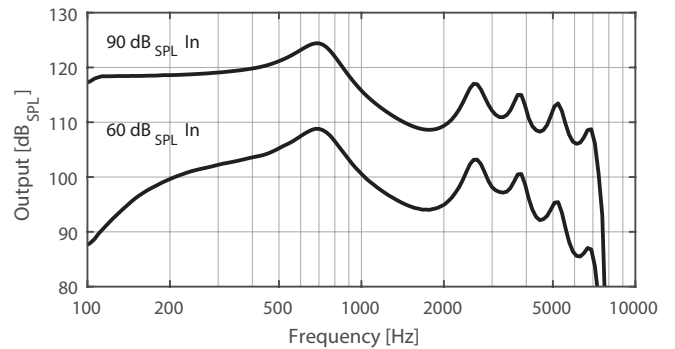
FOG / OSPL90 @ IEC 60118-0:1983/A1:1994



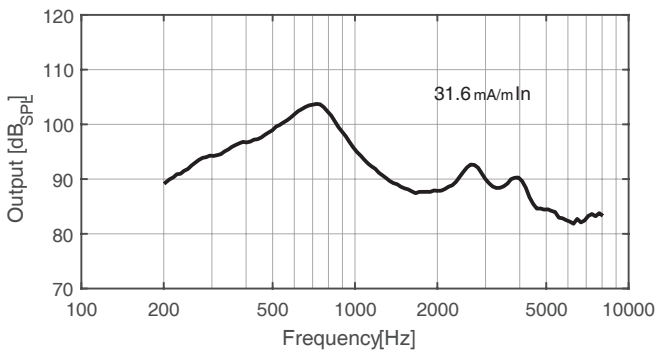
FREQUENCY RESPONSE @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



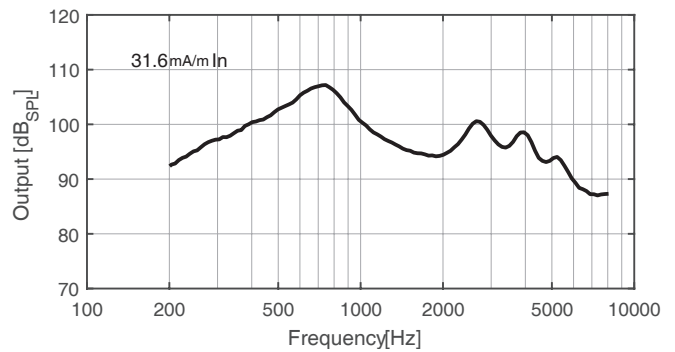
FREQUENCY RESPONSE @ RTG @ IEC 60118-0:1983/A1:1994



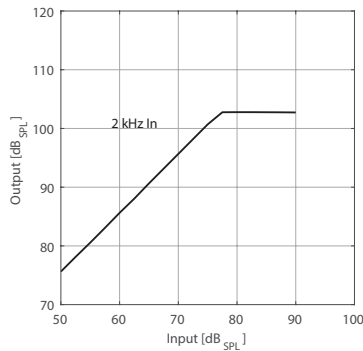
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-7:2005 / IEC 60118-0:2015



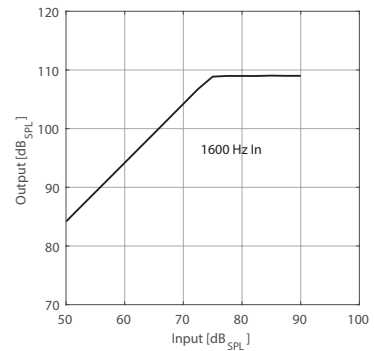
INDUCTION COIL SENSITIVITY @ RTG @ IEC 60118-0:1983/A1:1994



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



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



¹Measurements with occluded coupler

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Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2018 and are subject to changes without prior notice.

Amplex 80 PRO BTE **microson**

Accessories & Spare Parts 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)
- 102534, Side Identifier Label (L/R) (5 pcs)

Tips

- 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

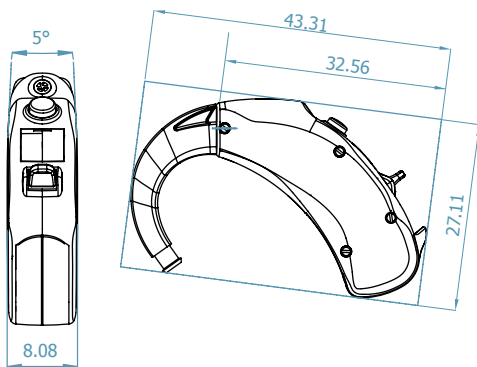
Accessories & Spare Parts for End User

- 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)

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HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH EN 60601-1 STANDARD




Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 <p>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.</p>
Working Method	CONTINUED WORKING

Power Supply Electrical Features

Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage (Standard Ear-Hook / Thin Tube)	0,51 mA / 0,50 mA
Battery Nomenclature (EN 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	99780	MICROSON AMPLEX 80 PRO BTE BEIGE	8435281312900

GMDN Code: 34671