m2 BTE

microson

1. Ergonomic Ear Hook
2. Microphone
3. Volume Control
4. Battery compartment (Type 13)
5. Acoustic Filter

DESCRIPTION

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

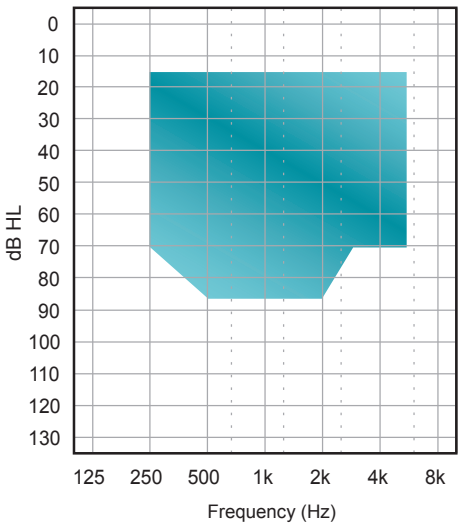
INTENDED USE

The Microson m2 BTE is indicated to compensate from moderate to severe hearing loss (transmissive, mixed or sensorineural). It is not intended for children. See Fitting Range[1]

Features

√ Matrix 131/58@ 2cc
√ 100% Digital Technology
√ Digitally Programmable
√ 2 Programs
√ 6 WDRC Independent Channels New!
√ Autophone
√ Telecoil
√ Digital Volume Control
√ 6 MPO Control Channels
√ 12 Frecuency Bands
√ Automatic Feedback Canceller
√ Nanoproof Coating[2]
√ Automatic Noise Reduction up to -12dB
√ Power on Delay
√ Low Battery Indicator
√ Battery 13 Type - PR48 (EN 60086)
√ Small size
√ Suitable for mobile phones[3]

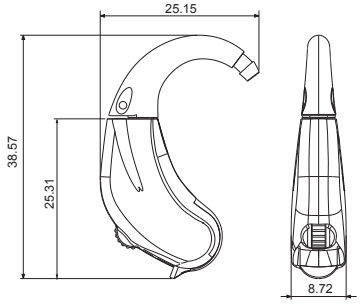
[1] Fitting Range



Requirements

89600, Fitting Software Microson CODA e-STUDIO 6 (6.5.0 or higher)
53781, 4 Pin Hi-Pro Cable Right
53832, 4 Pin Hi-Pro Cable Left
79345, Battery 13 Flex Adapter
66183, NOAHLINK[A] Programming Interface (Kernel v. 1.55.03)
73194, HI-PRO[B] USB Hearing Instrument Programmer (Firmware 3.00 or higher)
88616, HI-PRO[B]2 Hearing Instrument Programmer (Firmware 4.00 or higher)

Weight & Dimensions



Weight* excluding battery: 2,31 gr.
Weight* including battery: 3,09 gr
Dimensions in millimeters (mm)
*Including Damped Ear Hook

[2] Nanometric Coating protection against intrusion of particles

[3] In compliance with IEC 60118-13

Product Data

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	Acoustic Data	IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994
OUTPUT	OSPL[1]90 Peak (dB_{SPL})	131	136
	OSPL90 Peak Frequency (Hz)	1400	1500
	HFA[2]-OSPL90 / RTF[3]-OSPL90 (dB_{SPL})	123	134
GAIN	HFA-FOG[4] (dB)	49	57
	RTF-FOG (dB)	50	59
	FOG (dB)	58	61
	FOG Frequency (Hz)	1400	1500
	RTG[5] (dB)	45	57
NOISE	Equivalent Input Noise (dB_{SPL})	21	19
AGC[6]	Attack Time (ms)	1	1
	Release Time (ms)	8	6
TELECOIL	HFA-SPLI[7] / RTF-SPLI (dB_{SPL})	105	118
	HFA-FOG-MASL[8] / RTF-FOG-MASL @ 1 mA/m (dB_{SPL})	79	88
	500 Hz @ 56 mA/m (THD %)	2.1	4.4
	800 Hz @ 56 mA/m (THD %)	5.9	N/A
	1600 Hz @ 56 mA/m (THD %)	0.8	3.1
DISTORTION	500 Hz @ 70 dB_{SPL} (THD %)	1.5	3.6
	800 Hz @ 70 dB_{SPL} (THD %)	0.9	1.9
	1600 Hz @ 65 / 70 dB_{SPL} (THD %)	0.2	0.4
CONSUMPTION	Current Drain (mA)	0.90	0.88
FREQUENCY LIMITS	f_1 (Hz)	<100	200*
	f_2 (Hz)	6500	6700*
		IEC 60318-5:2006	IEC 60318-4:2010

[1]OSPL: Output Sound Preassure Level

[2]HFA: High Frequency Average

[3]RTF: Reference Test Frequency (1600 Hz)

[4]FOG: Full On Gain

[5]RTG: Reference Test Gain

[6]AGC: Automatic Gain Control

[7]SPLI: Sound Pressure Level Inductive

[8]MASL: Magneto Acoustical Sensitivity Level

*According to DIN 45605 standard

Power Source: 1.3V Battery Simulator
Measurements with an undamped ear hook

Product Data

Configurable parameters

	Parameter	Minimum	Maximum	Step	Default Parameters	Units
WDRC CHANNELS 1 to 6	Low Level Gain	0	20	2	20	dB
	High Level Gain	0	26	2	26	dB
	Compression TK	45	69	2	55	dB_{SPL}
	Compression Ratio	1:1	5:1	-	1:1	-
MPO CHANNELS 1 to 6	Threshold Kneepoint	-16	OFF	2	OFF	dB
FEATURES	Volume Control	-20	0	2	0	dB
	Power On Delay	0	10	5	0	seconds
	Noise Reduction	OFF	12	6	OFF	dB
	Feedback Canceller	-	-	-	ON	-
	Memory Change Indicator	-	-	-	OFF	-
	Low-Battery Indicator	-	-	-	ON	-

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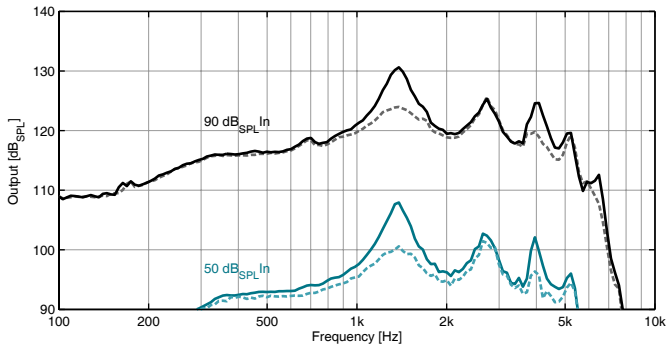
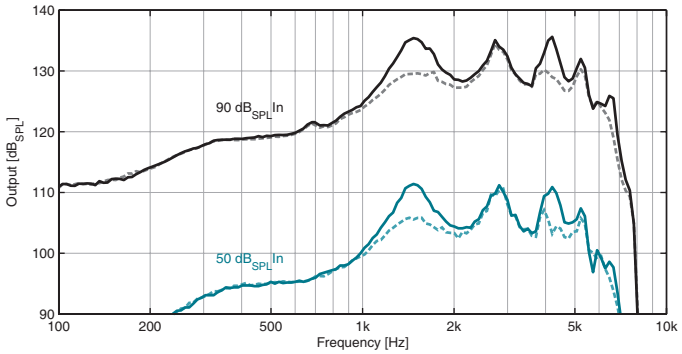
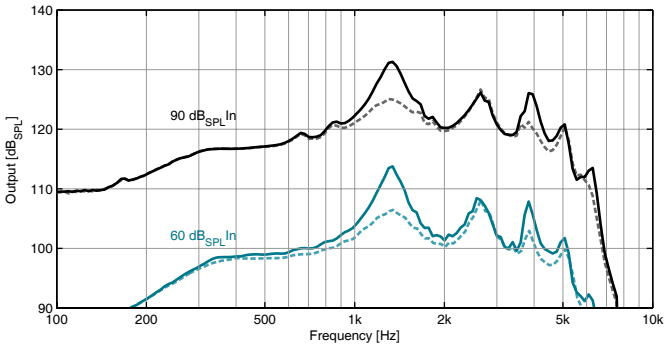
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



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



FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



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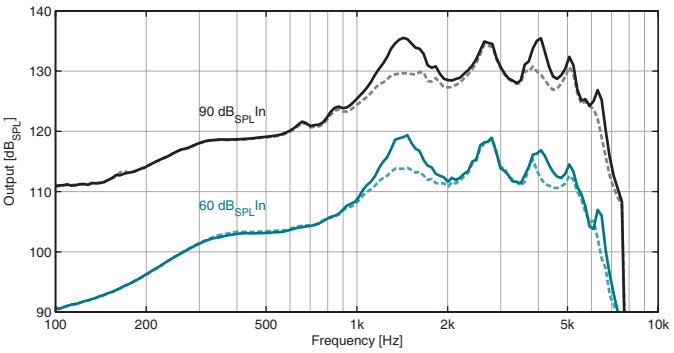
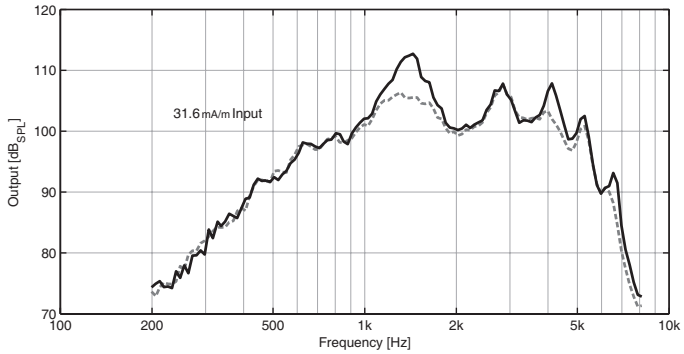
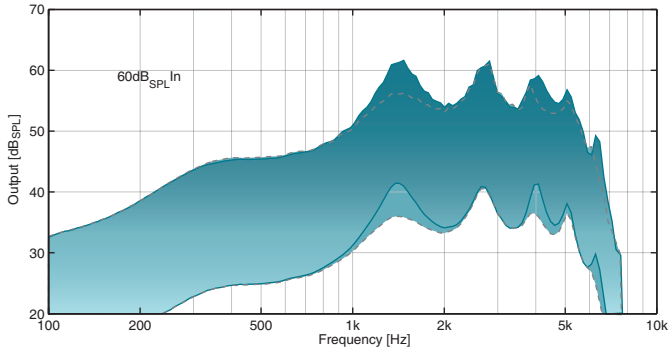


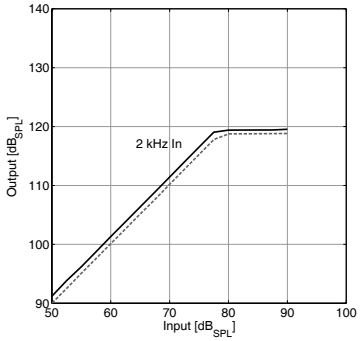
INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-7:2005



FREQUENCY RESPONSE @ VOLUME CONTROL @ IEC 60118-0:1993/A1:1994



INPUT-OUTPUT @ RTS @ IEC 60118-7:2005



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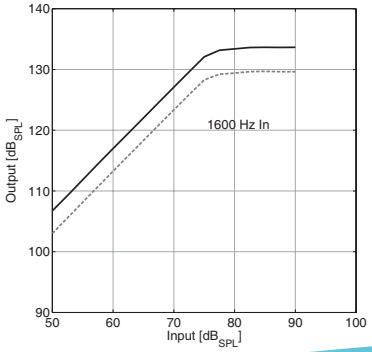

Damped Ear Hook

Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on June 2015 and are subject to changes without prior notice.

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Accesories & Spare Parts for Professionals (Fitting)

91118, Brush Cleaner
53781, Right Programming Cable
53832, Left Programming Cable
79345, Battery 13 Flex Adapter
66183, NOAHLINK Programming Interface (Kernel v. 1.55.03)
73194, HI-PRO Hearing Instrument Programmer (Firmware 3.00 or higher)
93769, Neodymium disc magnet
79430, Membrane Windscreen Bte Artic Grey (10Pcs)
79431, Membrane Windscreen Bte Beige (10Pcs)
79432, Membrane Windscreen Bte Artic Grey (10Pcs)
82876, 6 pack of Microson 13 hearing aid batteries (PR48)
87304, Membrane Windscreen BTE Black (10Pcs)
88616, HI-PRO USB Hearing Instrument Programmer (Firmware 4.00 or higher)
89600, Fitting Software Microson CODA e-STUDIO 6 (6.5.0 or higher)
94349, P13 Ear Hook Soft rev2 (5pcs)

Accesories & Spare Parts for end user

91118, Brush Cleaner
94166, User Manual m2 BTE LP2 (ES/EN/IT/PT/FR)
93769, Neodymium disc magnet
94583, 6 pack of Microson 13 hearing aid batteries M/Free (PR48)
88192, Microson Microbox case

HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD

Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	Type B Applied Part
	This symbol indicates that this product adheres to the requirements established for an application component of type B in accordance with IEC 60601-2-66. The surface of the hearing aid is classified as an application component of type B.
Mode of operation	CONTINUOUS OPERATION

Environmental conditions		Operating	Storage and Transport
	Temperature Limit	0 to 40ºC	-20 to 60ºC
	Humidity limitation	10 al 95% (Non-condensing)	

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Power Supply Electrical Features	m2 BTE
Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage	0.88 mA
Battery Nomenclature (IEC 60086)	PR48

PRODUCT	REFERENCE	MODEL	GTIN-13
m2 BTE	94115	MICROSON m2 BTE AT BEIGE	8435281312047
	94336	MICROSON m2 BTE AT ARTIC GREY	8435281312030
	94337	MICROSON m2 BTE AT DOLPHIN GREY	8435281312061
	94338	MICROSON m2 BTE AT BLACK	8435281312054

GMDN Code: 34671

Product Data

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