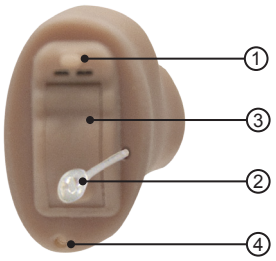
m4 CIC Rev.C

microson



DESCRIPTION

Completely-in-the-canal hearing aid (CIC), with 8 WDRC channels, Battery type 10, programmable through fitting software.

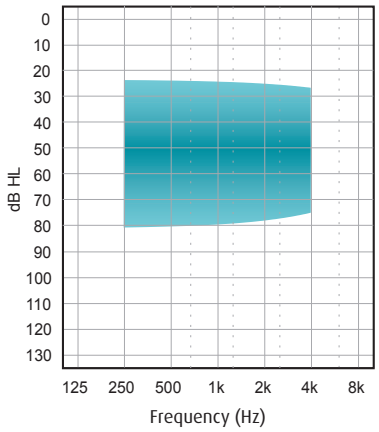
INTENDED USE

The MICROSON m4 CIC hearing instrument is indicated to compensate mild to moderate hearing loss (mixed or sensorineural). It is not suitable for children or mentally disabled people.
See Fitting Range(1)

Features

√ Matrix 114/42 @ 2cc
√ 100% Digital Technology
√ Digitally Programmable
√ 8 Independent WDRC Channels[2] New!
√ 4 Memories
√ 23 Band Equalizer
√ Automatic Environment Detection (iSD)
√ Automatic Feedback Canceller (OPTIMIZER)
√ Automatic Noise Reduction improved up to 9 dB_{SPL}
√ Data Logging
√ Memory Change Indicator
√ Low Battery Indicator
√ Battery Type 10 - PR70 (IEC 60086)
√ Semi-modular
√ Suitable for mobile phones[3]

(1) Fitting Range



Requirements

86900, 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
83968, 3 Pin Flex Cable
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)

> ⚠ ATTENTION:
> Requires Battery type 10 for programming

[2]Upgrading from 4 to 8 channels with Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher) avaible for Rev.B products acquired since 2015/03/26.

[3]In compliance with IEC 60118-13:2011.

Product Data

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

MICROSON S.A. Pere IV,160 08005 BARCELONA (Spain) Ph.+34 93 300 58 00 FAX:+34 93 485 70 99 www.microson.es

CE 0197

	Acoustic Data	IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994
OUTPUT	OSPL[1]90 Peak (dB_{SPL})	114	124
	OSPL90 Peak Frequency (Hz)	3100	3200
	HFA[2]-OSPL90 / RTF[3]-OSPL90 (dB_{SPL})	109	117
GAIN	HFA-FOG[4] (dB)	36	44
	RTF-FOG (dB)	35	43
	FOG (dB)	42	52
	FOG Frequency (Hz)	3200	3200
	RTG[5] (dB)	36	43
NOISE	Equivalent Input Noise (dB_{SPL})	15	16
AGC[6]	Attack Time (ms)	1	7
	Release Time(ms)	23	13
DISTORTION	500 Hz @ 70 dB_{SPL} (THD %)	0.2	0.3
	800 Hz @ 70 dB_{SPL} (THD %)	0.3	0.4
	1600 Hz @ 65 / 70 dB_{SPL} (THD %)	0.3	0.5
CONSUMPTION	Current Drain (mA)	0.63	0.52
FREQUENCY LIMITS	f_1 (Hz)	<100	100*
	f_2 (Hz)	6400	7800*
	Power Source: 1.3V Battery Simulator	EN 60318-5:2006	EN 60318-4:2010

*According to DIN 45605 standard

[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

Compression Features

	Type	Fast Attack Time	Slow Attack Time	Fast Release Time	Slow Release Time
AGC-I CHANNELS FROM 1 TO 4	Speech	4	32	32	64
	Noise	4	32	512	8192
AGC-I CHANNELS FROM 5 TO 8	Speech	4	16	32	64
	Noise	4	32	512	8192
OUTPUT LIMITER	AGC-O	-	4	-	32
MICROPHONE NOISE SUPPRESSOR	Expansor	128		4	

All measures in milliseconds

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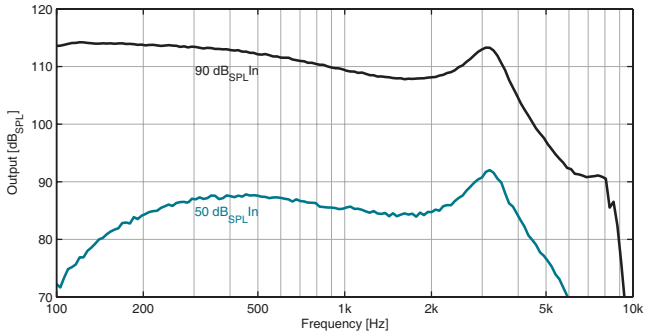
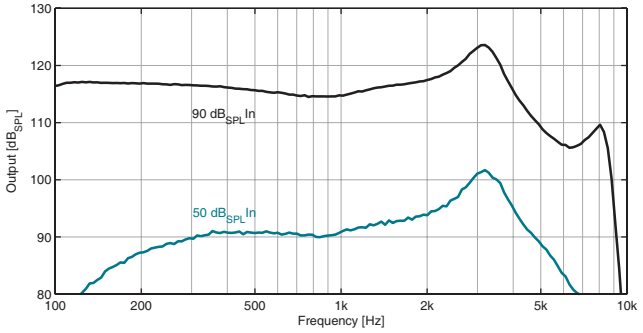
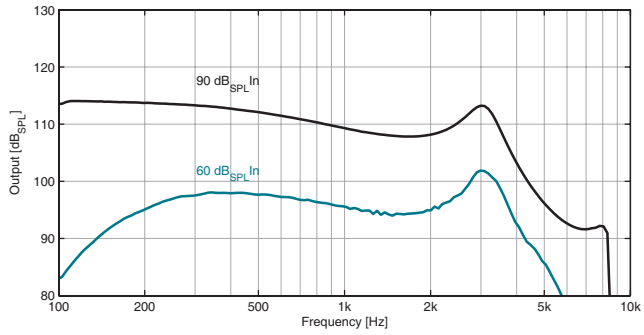
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



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



FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



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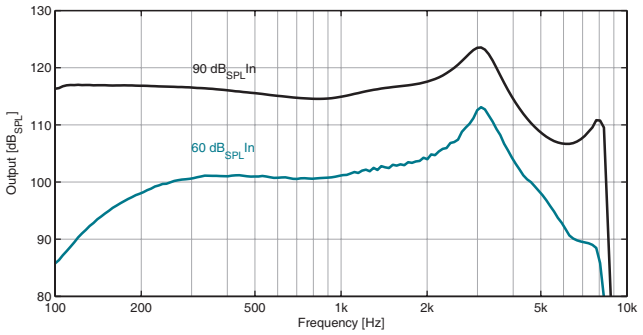
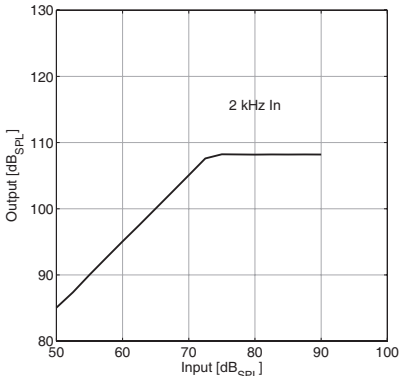


INPUT-OUTPUT @ RTS @ IEC 60118-7:2005



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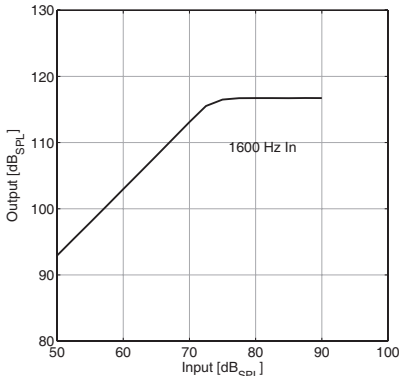

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F-05.009 Rev.D Issue Date 2015-02-13

Accesories & Spare Parts PROFESSIONAL (Adapter)

63849, Red HF3 pack filters + dispenser (15 pcs)
63850, Blue HF3 pack filters + dispenser (15 pcs)
75196, Microson Battery Door P10 Pink (5 pcs)
75228, Microson Battery Door P10 Coco (5 pcs)
94584, 6 Pack of Microson 10 hearing aid batteries M/Free (PR70)

Accesories & Spare Parts for end user

63849, Red HF3 pack filters + dispenser (15 pcs)
63850, Blue HF3 pack filters + dispenser (15 pcs)
76023, User´s manual M4 ITE LP2*
94584, 6 Pack of Microson 10 hearing aid batteries M/Free (PR70)
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
	B Type 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.
Working Method	CONTINUED WORKING

Environmental Conditions

	Temperature Min.(ºC)	Temperature Max.(ºC)	Relative Humidity Min. (%)	Relative Humidity Max. (%)
Recommended usage and storage	0	40	10	95

Power Supply Electrical Features

	m4 CIC
Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage	0.52 mA
Battery Nomenclature (IEC 60086)	PR70

PRODUCT	REFERENCE	MODEL	GTIN-13
M4 CIC	67512	FP M4 CIC Pink L	8435281302994
	67514	FP M4 CIC Pink R	8435281303014

GMDN Code: 41209

*ES / Spanish, EN / English, IT / Italiano, PT / Portuguese, FR / French.

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