



- ① Ergonomic Earhook
- ② Microphone
- ③ Programs Push Button
- ④ Programming Socket
- ⑤ Volume Control
- ⑥ Battery Door (Type 13)

DESCRIPTION

According to the M4 family, M4 BTE ECO is a fully digital programmable hearing aid with WDRC processing strategy. Its 4 totally independent channels and its 11 parametric equalization bands, offers to the hearing care professional an easier fitting process with high reliability.

Intended use: Designed to cover mixed and sensorineural from moderate to severe hearing losses.⁽¹⁾

Features

- ✓ Matrix 137/66 @ 2cc
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ 4 Independent channels WDRC
- ✓ 4 Memories
- ✓ 11 Bands Equalizer
- ✓ Digital Volume Control
- ✓ ON/OFF Battery door
- ✓ Automatic Feedback Canceller
- ✓ Telecoil
- ✓ Memory Switch Indicator
- ✓ Low Battery Indicator
- ✓ Small Size
- ✓ Suitable for mobile phones*
- ✓ Battery Type 13 - PR48 (IEC 60086)

Requirements

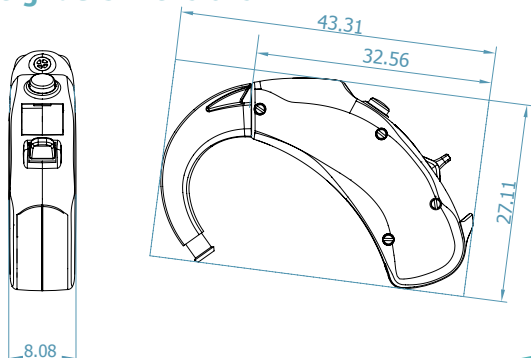
- ✓ Ref. 53781 4 Pin Programmer Cable Right
- ✓ Ref. 53832 4 Pin Programmer Cable Left
- ✓ Ref. 88616 HI-PRO 2® Programmer or Ref. 66183 NOAHLINK® Programmer.
- ✓ CODA e-STUDIO 6.0.3 M 00 or higher



NOTE:

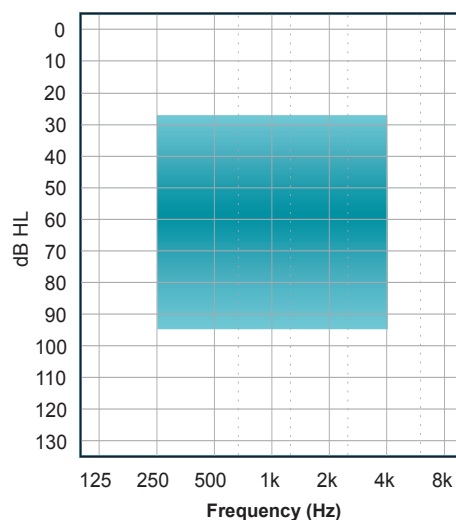
Insert Battery Type 13- PR48 Adapter for programming

Weight & Dimensions



Weight excluding battery: 3.68 gr.
Weight including battery: 4.43 gr.
Dimensions in millimeters (mm)

Fitting Range⁽¹⁾



*In Compliance IEC 60118-13:2011

DS-0016-016-EN
Rev.B 19/05/2014

M4 BTE ECO
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	Acoustic Data	IEC 60118-7:2005	IEC 60118-0:1983/ A1:1994
OUTPUT	OSPL ¹ 90 Peak	137	139
	OSPL 90 Peak Frequency	1200	1200
	HFA ² / RTF ³ OSPL 90	129	134
GAIN	HFA-FOG (dB)	56	63
	RTF-FOG (dB)	53	61
	FOG (dB)	66	69
	FOG Frequency (Hz)	1200	1200
	RTG (Reference Test Gain) (dB)	50	59
NOISE	Equivalent Input Noise (dB SPL)	10	9
AGC ⁴	Attack Time (ms)	1	2
	Release Time(ms)	5	4
TELECOIL	ETLS ⁵ @ 31,6 mA/m	104	111
	HFA-MASL ⁶ @ 10 mA/m	84	88
	500 Hz @ 100 mA / m (%)	N/A	N/A
	800 Hz @ 100 mA / m (%)	1,6	4,8
	1600 Hz @ 100 mA / m (%)	0,4	1,6
DISTORTION	500 Hz @ 70 dB _{SPL} (%)	1,8	3,7
	800 Hz @ 70 dB _{SPL} (%)	0,8	2,2
	1600 Hz @ 65 / 70 dB _{SPL} (%)	0,2	0,5
CONSUMPTION	Current Drain (mA)	0,82	0,72
FREQUENCY LIMITS	f ₁ (Hz)	<100	100*
	f ₂ (Hz)	4800	4900*
Power Source: 1.3V Battery Simulator		IEC 60318-5:2006	IEC 60318-4:2010

¹OSPL: Output Sound Preassure 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

⁷IRIL= Input-Related Interference Level

*According to DIN 45605 Standard

IRIL ⁷ IEC 60118-13:2011	Bystander Situation Max IRIL [dB _{SPL}]	FREQUENCY BANDS	
		800-960 MHz	1400-2000 MHz
		<4	<4

Accesories

- 91932 Blue/Red Label Lid m4 BTE ECO
- 91776 Beige Label Lid m4 BTE ECO (10 pcs)

Spare Parts

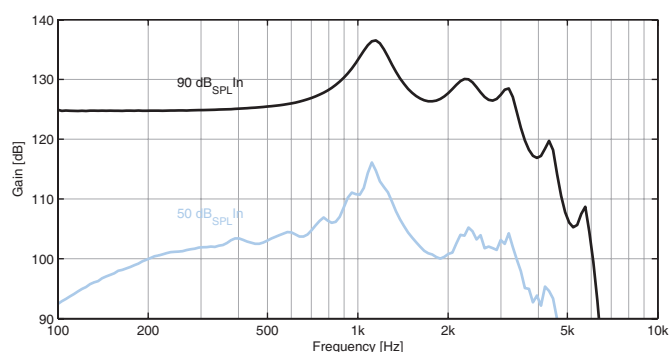
- 91774 Earhook P13 M2 (5pcs)
- 79431 Windscreen BTE Beig (10 pcs)

User Manual

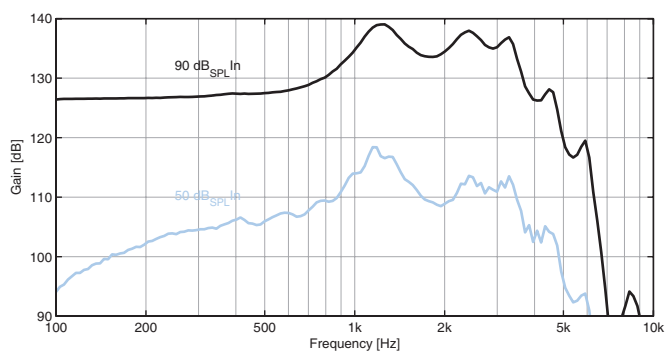
- 91869 User Manual Microson M4 BTE LP2 (ES/EN/IT/PT/FR)
- 91986 User Manual Microson M4 BTE LP3 (EN/TR/RO/BG/EL)



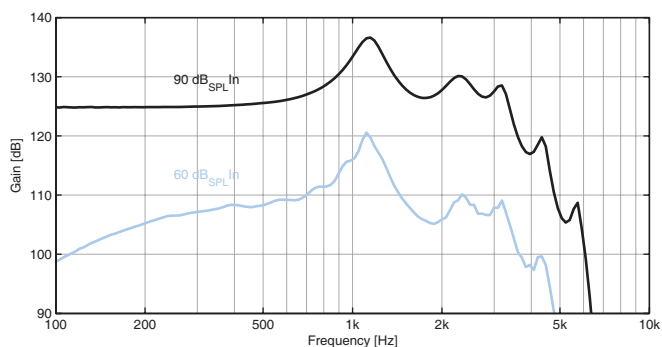
FOG / OSPL90 @ IEC 60118-7:2005



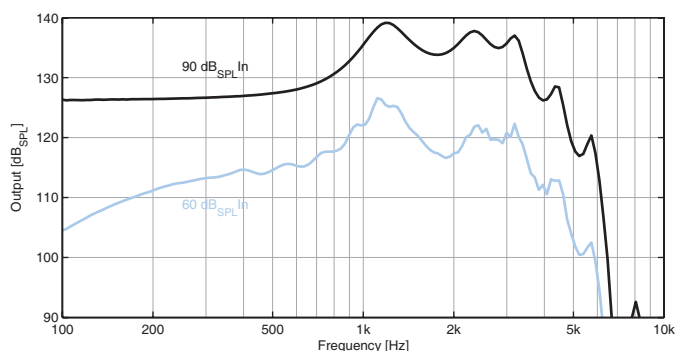
FOG / OSPL90 @ IEC 60118-0:1983/A1:1994



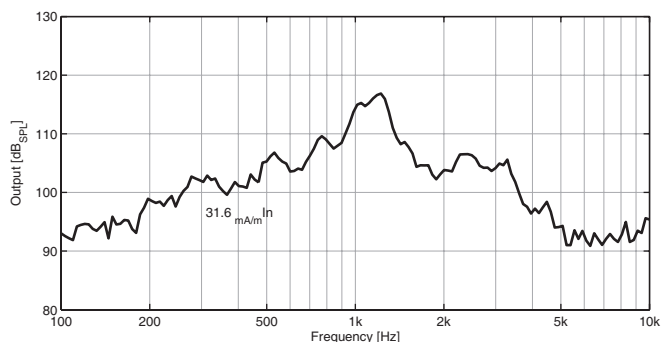
FREQUENCY RESPONSE @ RTG @ IEC 60118-7:2005



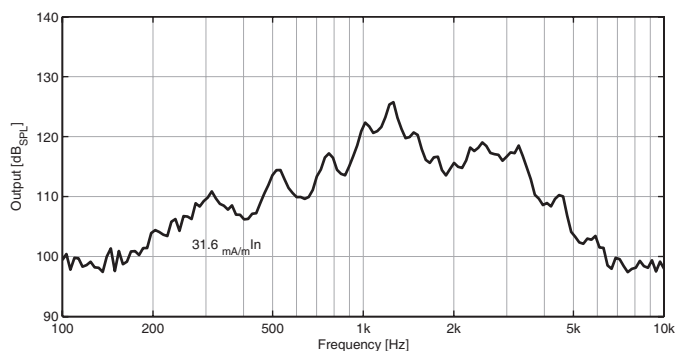
FREQUENCY RESPONSE @ AER @ IEC 60118-0:1983/A1:1994



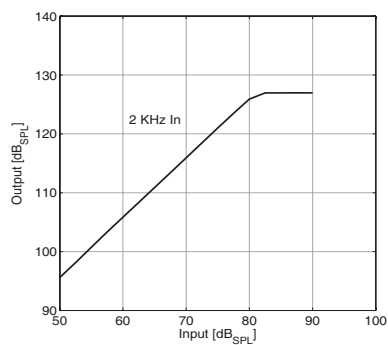
INDUCTION COIL SENSITIVITY @ IEC 60118-7:2005



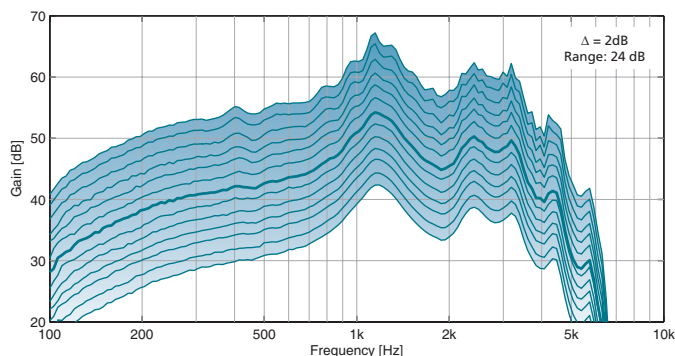
INDUCTION COIL SENSITIVITY @ IEC 60118-0:1983/A1:1994



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



FREQUENCY RESPONSE @ VOL. CTRL. @ IEC 60118-0:1983/A1:1994



HEARING INSTRUMENT CLASSIFICATION ACORDING TO 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	CONTINUED WORKING

Power Supply Electrical Features

Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage	0.72 mA
Battery Nomenclature (IEC 60086)	PR48

PRODUCT	REFERENCE	MODEL	GTIN-13
M4 BTE	91725	M4 BTE ECO	8435281311002

GMDN Code: 34671

Product Data