

BiCore B M

BiCore B M SDemo

DATA SHEET

80

60

40

30

20

10



Earhook

- 60 dB / 133 dB SPL (2 ccm coupler)
- 67 dB / 138 dB SPL (Ear simulator)

ThinTube 3.0

- 61 dB / 125 dB SPL (2 ccm coupler)
- 65 dB / 129 dB SPL (Ear simulator)

ThinTube 3.0 P

- 64 dB / 126 dB SPL (2 ccm coupler)
- 67 dB / 131 dB SPL (Ear simulator)

BiCore B M · Technical Data

Type	Earhook	
	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL90 at 1.6 kHz	–	136 dB SPL
maximum OSPL90	133 dB SPL	138 dB SPL
HFA OSPL90	124 dB SPL	–
Gain		
FOG at 1.6 kHz	–	63 dB
maximum FOG	60 dB	67 dB
HFA FOG	53 dB	–
Reference test gain	47 dB	56 dB
Frequency, noise and directivity		
Frequency range	120 – 7700 Hz	940 – 7700 Hz
Equivalent input noise	16 dB SPL	16 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	4 / 3 / 1 / 1 %	4 / 3 / 1 / – %
Tinnitus Function broadband	70 dB SPL	–
AI-DI	4.0 dB	
Latency	< 15 ms	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	92 dB SPL
Full-on HFA-SPLIV (10mA/m)	102 dB SPL	–
HFA SPLITS (left/right)	107 / 107 dB SPL	–
RSETS (left/right)	0 / 0 dB	–
HFA SPLIV	108 dB	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.6 mA	1.5 mA
Battery runtime (without streaming)	up to 142 h	
Battery runtime (incl. 20 h streaming)	up to 129 h	
Cellphone Compatibility		
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	

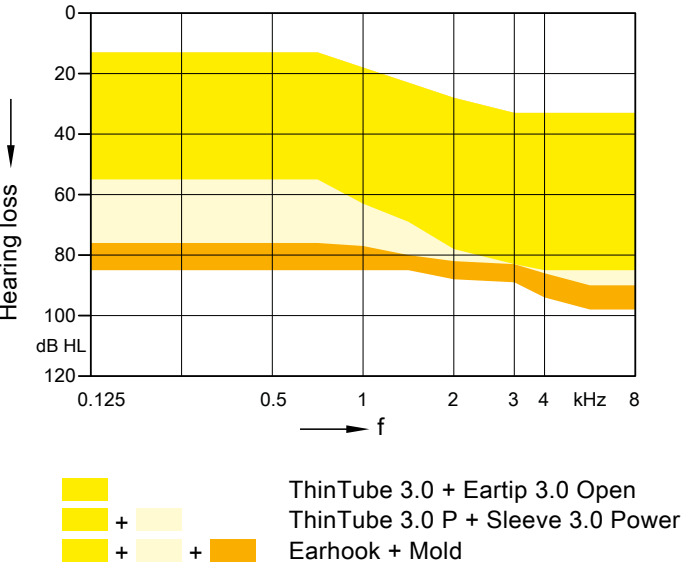
Please find additional information to the values on page “Further information”.

BiCore B M · Technical Data

Type	ThinTube 3.0		ThinTube 3.0 P	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
OSPL90 at 1.6 kHz	–	121 dB SPL	–	125 dB SPL
maximum OSPL90	125 dB SPL	129 dB SPL	126 dB SPL	131 dB SPL
HFA OSPL90	116 dB SPL	–	120 dB SPL	–
Gain				
FOG at 1.6 kHz	–	55 dB	–	59 dB
maximum FOG	61 dB	65 dB	64 dB	67 dB
HFA FOG	51 dB	–	57 dB	–
Reference test gain	39 dB	46 dB	44 dB	51 dB
Frequency, noise and directivity				
Frequency range	100 – 7900 Hz	100 – 8100 Hz	100 – 7100 Hz	100 – 7400 Hz
Equivalent input noise	18 dB SPL	19 dB SPL	15 dB SPL	17 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 1 / 1 / 1 %	4 / 2 / 2 / – %	3 / 1 / 1 / 1 %	4 / 4 / 2 / – %
Tinnitus Function broadband	70 dB SPL	–	70 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
Latency	< 15 ms		< 15 ms	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	80 dB SPL	–	84 dB SPL
Full-on HFA-SPLIV (10mA/m)	96 dB SPL	–	101 dB SPL	–
HFA SPLITS (left/right)	99 / 99 dB SPL	–	103 / 103 dB SPL	–
RSETS (left/right)	0 / 0 dB	–	0 / 0 dB	–
HFA SPLIV	99 dB SPL	–	103 dB SPL	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	2.2 mA	1.8 mA	2.0 mA	1.8 mA
Battery runtime (without streaming)	up to 132 h		up to 136 h	
Battery runtime (incl. 20 h streaming)	up to 120 h		up to 124 h	
Cellphone Compatibility				
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz	

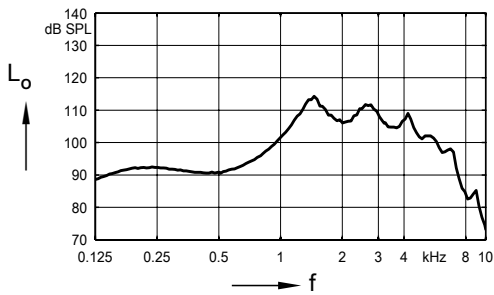
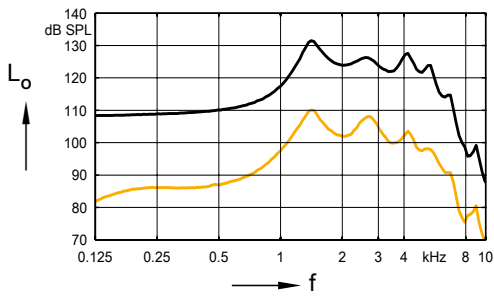
Please find additional information to the values on page “Further information”.

BiCore B M · Fitting Range

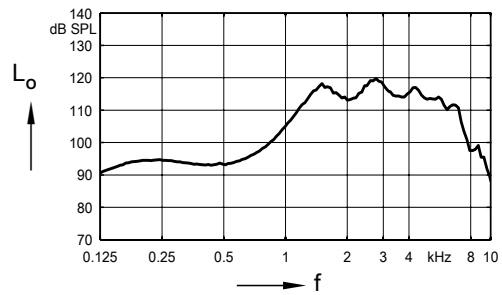
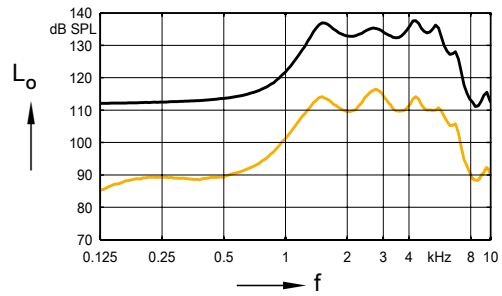


Earhook · Basic Data

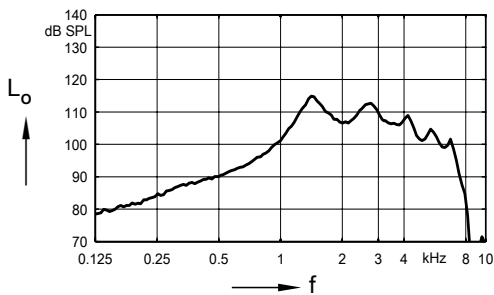
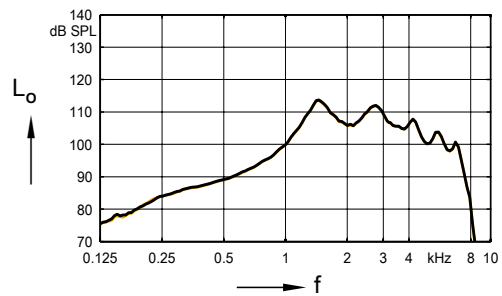
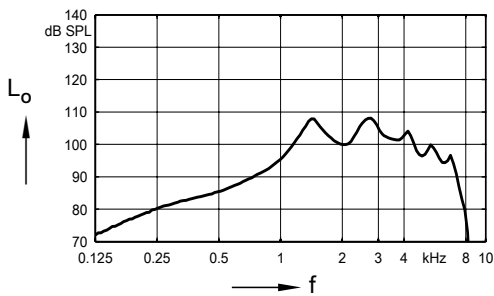
2 ccm coupler



Ear simulator

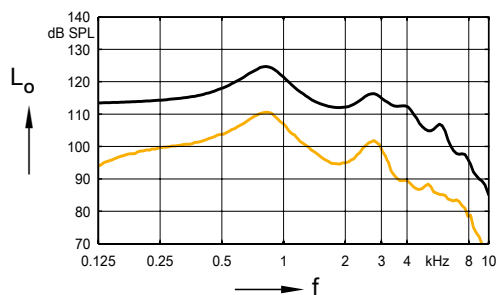


Inductive response



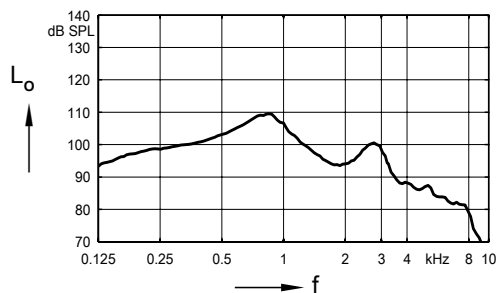
ThinTube 3.0 · Basic Data

2 ccm coupler



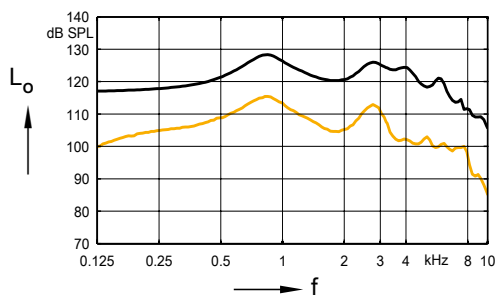
Max. Output
sound pressure
level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)



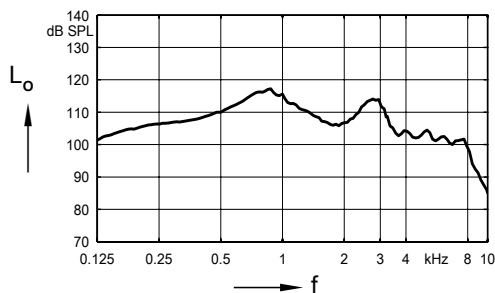
Frequency
response
($L_i = 60$ dB)

Ear simulator



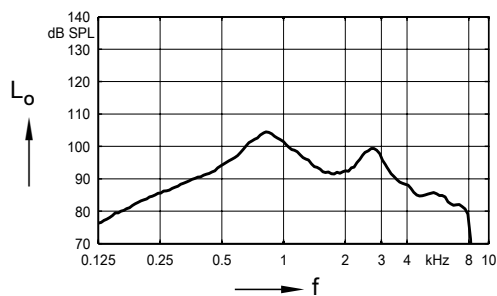
Max. Output
sound pressure
level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)

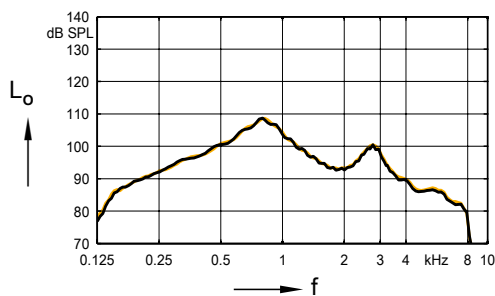


Basic acoustic
response
($L_i = 60$ dB)

Inductive response

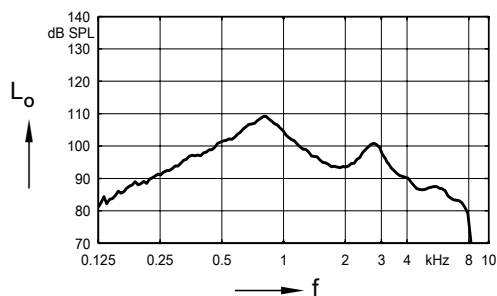


Inductive
response
($H = 10$ mA/m)



SPLITS curve
left
($H = 31.6$ mA/m)

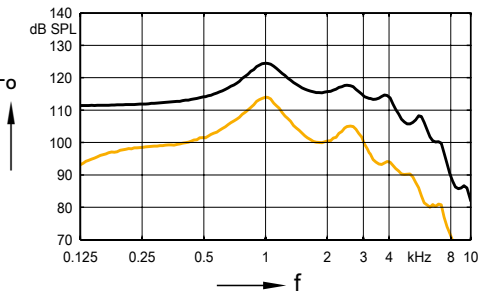
SPLITS curve
right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

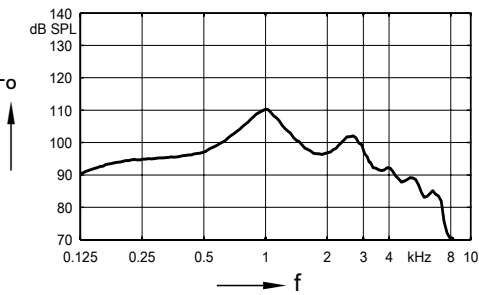
ThinTube 3.0 P | Basic Data

2 ccm coupler



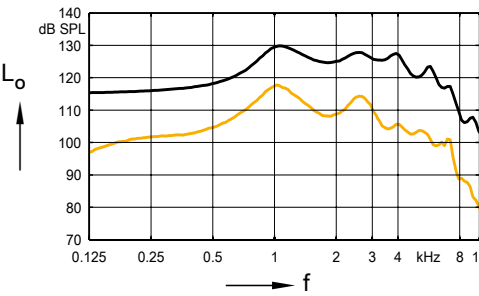
Max. Output
sound pressure
level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)



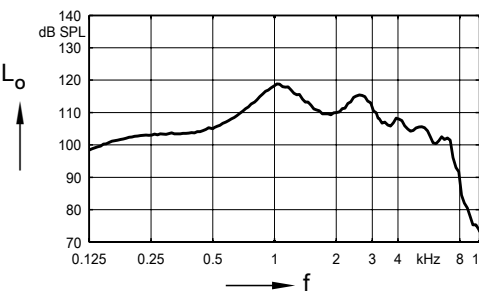
Frequency
response
($L_i = 60$ dB)

Ear simulator



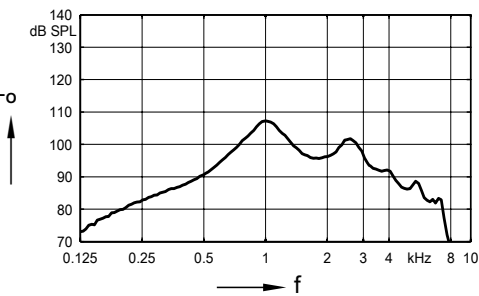
Max. Output
sound pressure
level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)

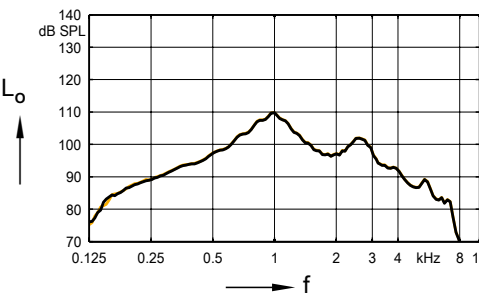


Basic acoustic
response
($L_i = 60$ dB)

Inductive response

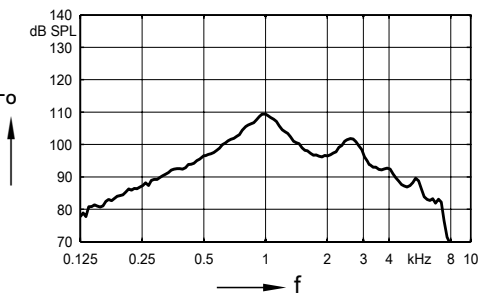


Inductive
response
($H = 10$ mA/m)



SPLITS curve
left
($H = 31.6$ mA/m)

SPLITS curve
right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

BiCore B M · Features and Accessories

	80	60	40	30	20	10
Features						
Ingress Protection Rating	IP68	IP68	IP68	IP68	IP68	IP68
Channels / Controls / Programs	48 / 20 / 6	32 / 16 / 6	24 / 12 / 6	16 / 8 / 4	16 / 8 / 4	12 / 6 / 4
Soundpro 2.0	High Res	High Res	High Res	High Res	High Res	High Res
My Voice 2.0	●	●	●	—	—	—
Direct Streaming	Made for iPhone/ Android version 10 or higher (ASHA)	Made for iPhone/ Android version 10 or higher (ASHA)	Made for iPhone/ Android version 10 or higher (ASHA)	Made for iPhone/ Android version 10 or higher (ASHA)	Made for iPhone/ Android version 10 or higher (ASHA)	—
Auto Volume	●	●	●	●	●	—
Wireless Sync	●	●	●	●	●	●
Directionality	Automatic adaptive, iOmni SL, Auto iFocus 360, iFocus 360, Auto Stereo iLock	Automatic adaptive, iOmni SL, iFocus 360, Auto Focus 360, Auto Stereo iLock	Automatic adaptive, iOmni SL, Auto Stereo iLock	Automatic adaptive, iOmni SL	Automatic adaptive, iOmni SL	Automatic directional fixed
Noise Reduction	Noise Management, Sound Smoothing, Directional	Noise Management, Sound Smoothing, Directional	Noise Management, Sound Smoothing	Noise Management, Sound Smoothing	Noise Management	Noise Management
Wind Noise Reduction	●	●	●	●	—	—
Auto Echo Reducer	●	—	—	—	—	—
Reverb Reducer	●	●	—	—	—	—
Bandwidth: Extension/Compression	● / ●	— / ●	— / ●	— / ●	— / ●	— / —
Music Enhancer (presets)	3	3	1	1	—	—
Tinnitus Function	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	Sound Therapy, Notch Therapy	—	—
XPhone	●	●	●	●	●	—
Acclimatization / Data Logging	● / ●	● / ●	● / ●	● / ●	● / ●	— / ●
T-Coil	●	●	●	●	●	●
Battery door – tamper proof	○	○	○	○	○	○
Battery size	13	13	13	13	13	13

● available — not available ○ optional

BiCore B M · Features and Accessories

	80	60	40	30	20	10
Accessories						
Smart Key	○	○	○	○	○	○
Smart Transmitter 2,4	○	○	○	○	○	—
Smart Mic	○	○	○	○	○	—
Rexton APP	○	○	○	○	○	○
Noahlink Wireless	mandatory	mandatory	mandatory	mandatory	mandatory	mandatory
Small earhook	○	○	○	○	○	○
BiCore CROS R-Li	○	○	○	○	○	—
BiCore CROS R312	○	○	○	○	○	—
BiCore CROS SR	—	—	—	—	—	—

● available — not available ○ optional

BiCore B M · Further information

Abbreviations

The following abbreviations are used in this data sheet:

SPL	Sound Pressure Level
OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Simulated Equivalent Telephone Sensitivity
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency
ASHA	Audio Streaming for Hearing Aids

Standards and additional information

- All measurements with the 2 ccm coupler were performed according to EN IEC 60118-0:2024 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to EN IEC 60118-13:2020 and ANSI C63.19:2019.
- Cellphone Compatibility definition: It is expected that the hearing aid user can effectively use a compliant wireless device held in a talking position at the ear. Maximum achievable Cellphone Compatibility range: 0.65–0.96 GHz and 1.4–2.7 GHz.
- Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- Figures representing Equivalent Input Noise incorporate a moderate expansion.
- Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing aids supporting RF (Radio Frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage, Bluetooth audio streaming from phone to hearing aid and from hearing aid to phone are considered.
- Extended bandwidth up to 10 kHz for 80 devices only.
- The following acoustic connections/ear pieces were used:
 - Earhook
 - ThinTube 3.0
 - ThinTube 3.0 P

