



Legato MB

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Data Sheet
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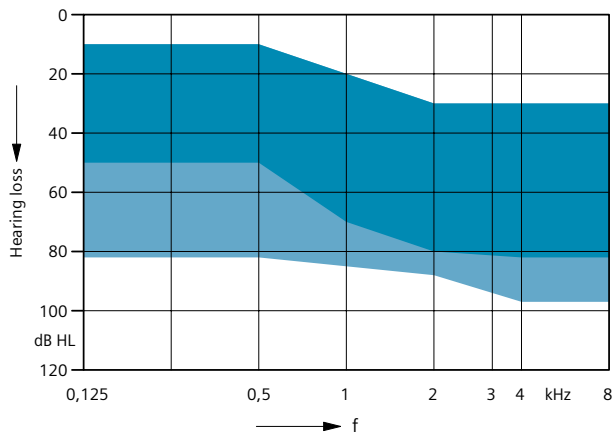
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Legato MB · Technical Data

Type	Earhook damped		ThinTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	-	135 dB SPL	-	121 dB SPL
Peak	130 dB SPL	138 dB SPL	126 dB SPL	130 dB SPL
HFA-OSPL 90	127 dB SPL	-	116 dB SPL	-
Gain				
Full-on gain (FOG) at 1.6 kHz	-	59 dB	-	54 dB
Full-on gain (peak)	60 dB	68 dB	53 dB	61 dB
HFA-FOG	53 dB	-	47 dB	-
Reference test gain	50 dB	52 dB	39 dB	46 dB
Frequency, noise and directivity				
Frequency range	110-7700 Hz	620-8200 Hz	100-8100 Hz	100-9600 Hz
Equivalent input noise	16 dB SPL	16 dB SPL	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	1 / 1 / 2 %	1 / 1 / 2 %
Broadband tinnitus function	-	-	-	-
AI-DI	4.0 dB		4.0 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	-	85 dB SPL	-	76 dB SPL
HFA MASL (1 mA/m)	80 dB SPL	-	69 dB SPL	-
HFA SPLITS (left/right)	109 / 109 dB SPL	-	98 / 98 dB SPL	-
RSETS (left/right)	-1 / -1 dB	-	-1 / -1 dB	-
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.0 mA		1.1 mA	
Battery life (cell zinc air)	~220 h		~200 h	
Battery life (rechargeable)	up to 16 h		up to 16 h	
IRIL IEC 118-13:2011 (bystander)				
800-960 MHz	<-43 dB SPL		<-43 dB SPL	
1400-2000 MHz	<-45 dB SPL		<-45 dB SPL	
ANSI C63.19	M4 / T4		M4 / T4	

Fitting Range

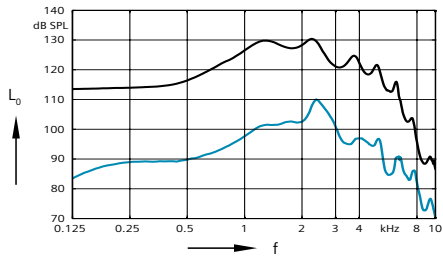
Legato MB



ThinTube double tip
+ Earhook damped

Legato MB (Earhook damped) · Basic Data

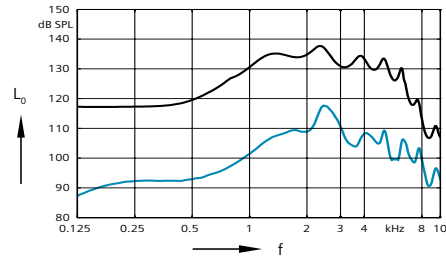
2 ccm coupler



Output sound pressure level
($L_1 = 90$ dB)

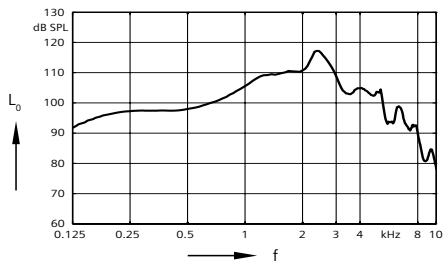
Full on gain
($L_1 = 50$ dB)

Ear simulator

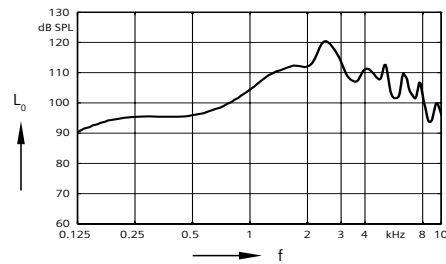


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

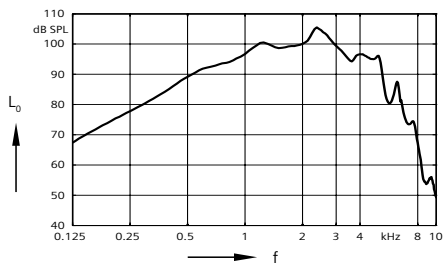


Frequency response
($L_1 = 60$ dB)

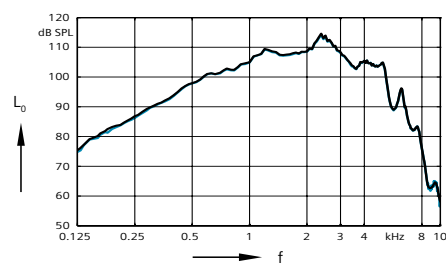


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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

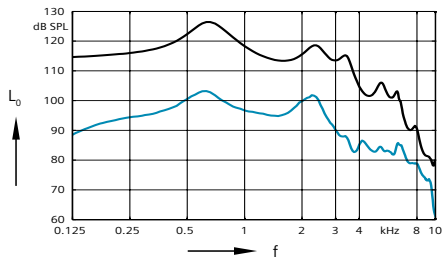


SPLITs curve left
($H = 31.6$ mA/m)

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

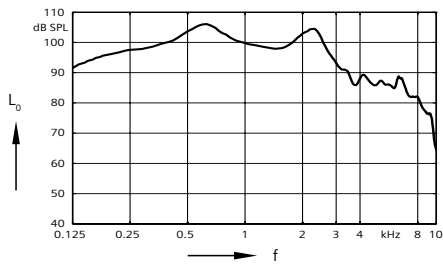
Legato MB (ThinTube) · Basic Data

2 ccm coupler



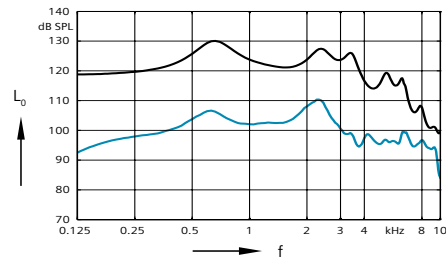
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



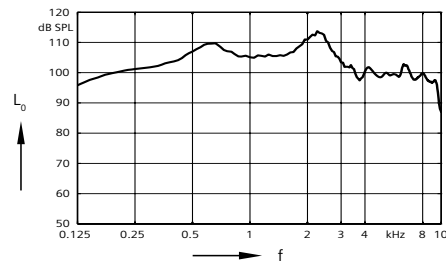
Frequency response
($L_1 = 60$ dB)

Ear simulator



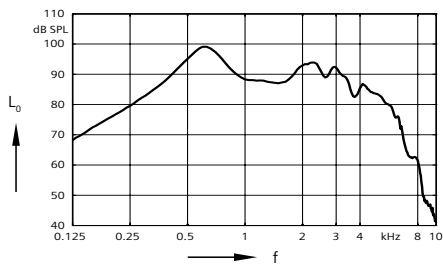
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

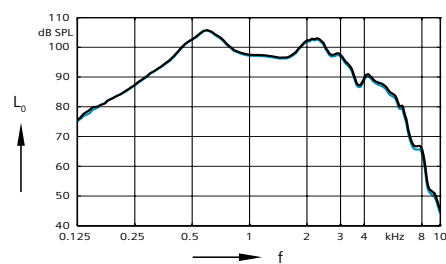


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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



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

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

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Features and Accessories

TruCore Platform

- Wireless sync (P)
- Volume and control coupling (P)
- 42 signal processing channels
- 20 gain handles
- 6 hearing programs

Hardware

- Up to 60 dB of gain
- 13 battery
- Rechargeable
- Rocker switch
- Telecoil
- Autophone
- SecureTec protection (IP67 rating)

TruCore Speech

- HD Bandwidth (10 kHz) (P)
- iFocus 360 (P)
- Focus 360 (P)
- HD Directionality (P)
- Directional iLock (P)
- Voice Ranger (P)
- XPhone (P)
- Multichannel adaptive directional microphone (P)
- Automatic Directional Microphone (P)
- Bandwidth Compression (P)
- Feedback Preventer (P)

Sound Quality and Comfort

- Microphone-pattern adjustment (P)
(Smart Connect App recommended)
- Reverb Reducer (P)
- Sound Radiance (P)
- Music Enhancer (P)
- Adaptive streaming volume (P)
- Sound Locator (P)
- Sound Smoothing (P)
- Wind Noise Cancellation (P)
- Noise Management (P)

Automatic Optimization

- Smart Automatic Equalizer (P)
- Smart Automatic Acclimatization (P)
- Automatic Classifier (P)
- Data Logging (P)

Accessories

- Smart Remote™
- Smart Connect™ (for Bluetooth connection with cell phones and stereo audio streaming)
- Smart Connect App (requires Smart Connect)
- Smart Remote App (provides the main functionality of the Smart Remote with just an app)
- Transmitter (requires Smart Connect)
- Speech Connect (requires Smart Connect)
- Smart Power™ charger
- Wired programming with 13-programming-adaptor
- Wireless programming with ConnexxLink™

Performance Levels: P = Premium H = High S = Standard

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Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

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 Equivalent Telephone Sensitivity
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2011 and IEC 60118-7:2005 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.
- ▶ Tinnitus function 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.
- ▶ The following ear pieces were used:
 - Earhook damped
 - ThinTube

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

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WARNING

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years or persons of mental incapacity.

WARNING

Instrument has an output sound pressure level of 132 dB SPL or more. Risk of impairing the residual hearing of the user.

- ▶ Take special care when fitting this instrument.

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