



# Legato™ MB

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Data Sheet  
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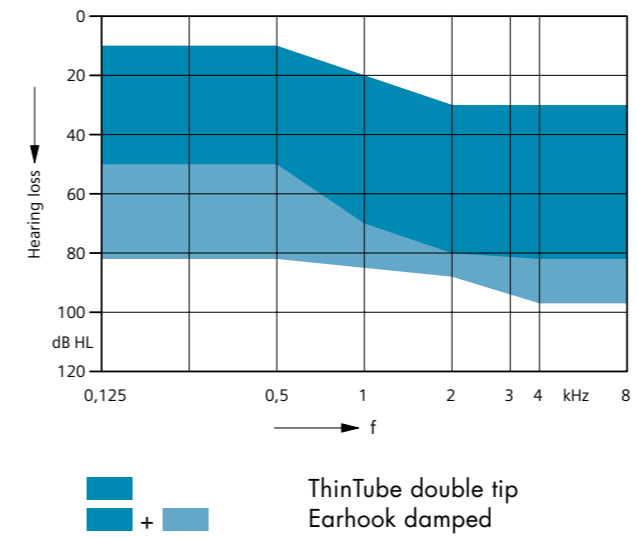
**REXTON** 

## Legato MB · Technical Data

| Type   | Earhook damped  |               | ThinTube  |               |
|--|---|---------------|---|---------------|
|  |  |               |  |               |
|  | 2 ccm coupler   | Ear simulator | 2 ccm coupler   | Ear simulator |
| <b>Output sound pressure level</b>               |   |               |   |               |
| 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  | –             |
| <b>Gain</b>                                      |   |               |   |               |
| 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         |
| <b>Frequency, noise and directivity</b>          |   |               |   |               |
| 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                      | 70 dB   | –             | 70 dB   | –             |
| AI-DI  | 4.0 dB  |               | 4.0 dB  |               |
| <b>Inductive coil sensitivity</b>                |   |               |   |               |
| 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  | –             |
| <b>Battery</b>                                   |   |               |   |               |
| 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  |               |
| <b>IRIL IEC 118-13:2011 (bystander)</b>          |   |               |   |               |
| 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   |               |

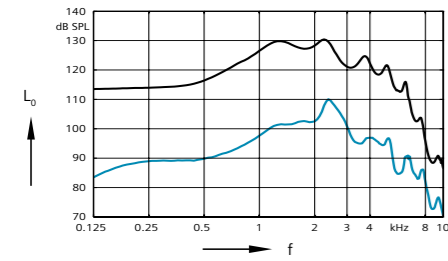
## Fitting Range

Legato MB 6C



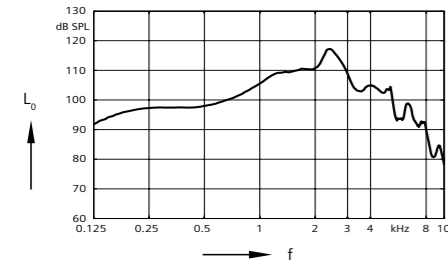
# Legato MB (Earhook damped) · Basic Data

## 2 ccm coupler



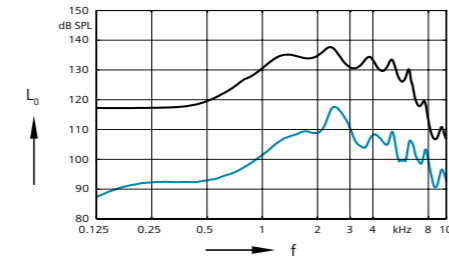
Output sound pressure level  
( $L_i = 90$  dB)

Full on gain  
( $L_i = 50$  dB)



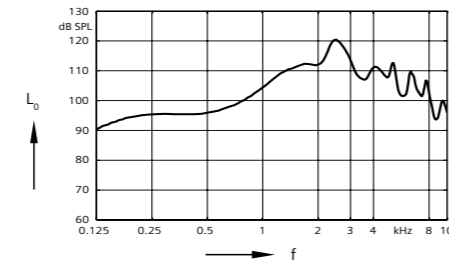
Frequency response  
( $L_i = 60$  dB)

## Ear simulator



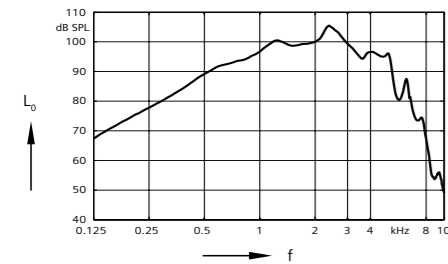
Output sound pressure level  
( $L_i = 90$  dB)

Full on gain  
( $L_i = 50$  dB)

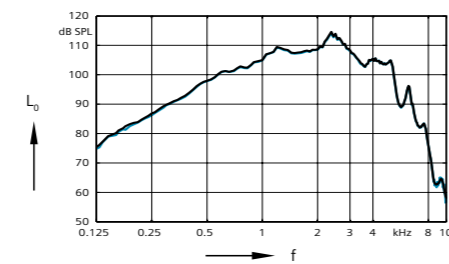


Basic acoustic response  
( $L_i = 60$  dB)

## Inductive response



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

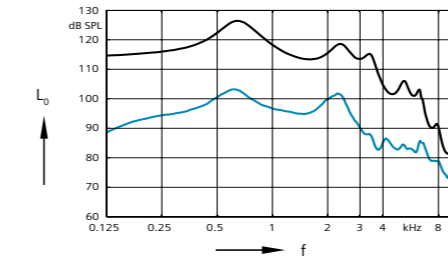


SPLITs curve left  
( $H = 31.6$  mA/m)

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

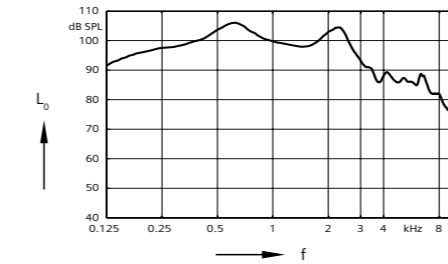
# Legato MB (ThinTube) · Basic Data

## 2 ccm coupler



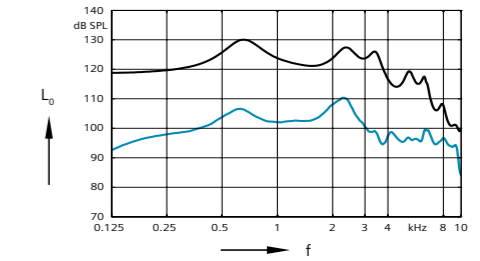
Output sound pressure level  
( $L_i = 90$  dB)

Full on gain  
( $L_i = 50$  dB)



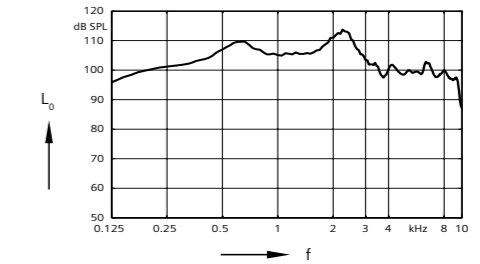
Frequency response  
( $L_i = 60$  dB)

## Ear simulator



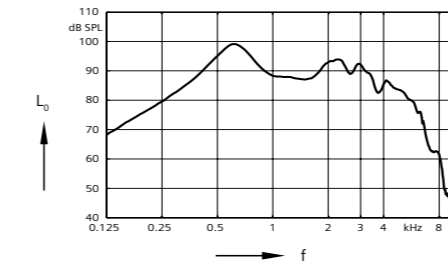
Output sound pressure level  
( $L_i = 90$  dB)

Full on gain  
( $L_i = 50$  dB)

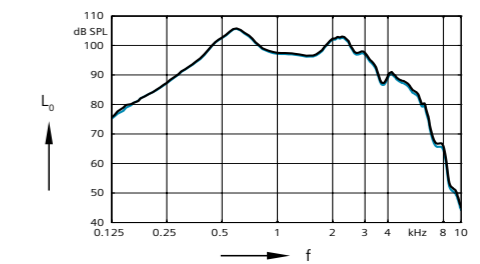


Basic acoustic response  
( $L_i = 60$  dB)

## Inductive response



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



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

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

# Legato MB

## Features and Accessories

### Platform

- Wireless sync
- Volume and control coupling
- 48 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)
- iFocus 360
- Focus 360
- HD Directionality
- Directional iLock
- Voice Ranger
- XPhone
- Multichannel adaptive directional microphone
- Automatic Directional Microphone
- Bandwidth Compression
- Feedback Preventer

### Sound Quality and Comfort

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

### Automatic Optimization

- Smart Automatic Equalizer
- Smart Automatic Acclimatization
- Automatic Classifier
- Data Logging

### 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 ConnexLink™

# Legato MB

## 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 S3.22-2009 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
- ▶ HD Bandwidth up to 10 kHz for 80 6C devices only.

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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