



Legato Custom

.....
Data Sheet
.....

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REXTON 

Legato ITE · Technical Data

| Type | 118/55 | | 124/65 | |
|---|-------------------|---------------|-------------------|---------------|
| | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | | | |
| at 1.6 kHz | - | 119 dB SPL | - | 128 dB SPL |
| Peak | 118 dB SPL | 128 dB SPL | 124 dB SPL | 134 dB SPL |
| HFA-OSPL 90 | 113 dB SPL | - | 120 dB SPL | - |
| Gain | | | | |
| Full-on gain (FOG) at 1.6 kHz | - | 55 dB | - | 66 dB |
| Full-on gain (peak) | 55 dB | 65 dB | 65 dB | 74 dB |
| HFA-FOG | 48 dB | - | 60 dB | - |
| Reference test gain | 35 dB | 45 dB | 44 dB | 53 dB |
| Frequency, noise and directivity | | | | |
| Frequency range | 100-7500 Hz | 120-8500 Hz | 100-6100 Hz | 100-6000 Hz |
| Equivalent input noise | 21 dB SPL | 17 dB SPL | 21 dB SPL | 21 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 Hz | 2 / 3 / 2 % | 3 / 5 / 3 % | 2 / 3 / 2 % | 7 / 7 / 3 % |
| AI-DI | 5.2 dB | | 5.2 dB | |
| Inductive coil sensitivity | | | | |
| MASL (1 mA/m) at 1.6 kHz | - | 85 dB SPL | - | 97 dB SPL |
| HFA MASL (1 mA/m) | 78 dB SPL | - | 89 dB SPL | - |
| HFA SPLITS (left/right) | 94 / 94 dB SPL | - | 103 / 103 dB SPL | - |
| RSETS (left/right) | -1 / -1 dB | - | 0 / 0 dB | - |
| Battery | | | | |
| Battery voltage | 1.3 V | | 1.3 V | |
| Battery current drain | 1.0 mA | | 1.1 mA | |
| Battery life (cell zinc air) Type 13 / 312 | ~ 220 h / ~ 120 h | | ~ 200 h / ~ 110 h | |
| Battery life (rechargeable) | - | | - | |
| IRIL IEC 118-13:2011 (bystander) | | | | |
| 800-960 MHz | < -6 dB SPL | | < -6 dB SPL | |
| 1400-2000 MHz | < -24 dB SPL | | < -24 dB SPL | |
| ANSI C63.19 | M4 / T3 | | M4 / T3 | |

Legato ITC · Technical Data

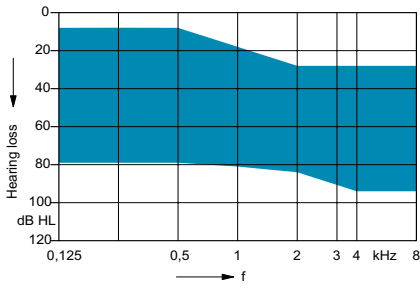
| Type | 113/50 | | 118/55 | | 124/65 | |
|--|------------------|---------------|------------------|---------------|------------------|---------------|
| | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | | | | | |
| at 1.6 kHz | - | 116 dB SPL | - | 119 dB SPL | - | 127 dB SPL |
| Peak | 113 dB SPL | 124 dB SPL | 118 dB SPL | 129 dB SPL | 124 dB SPL | 134 dB SPL |
| HFA-OSPL 90 | 108 dB SPL | - | 112 dB SPL | - | 120 dB SPL | - |
| Gain | | | | | | |
| Full-on gain (FOG) at 1.6 kHz | - | 52 dB | - | 53 dB | - | 65 dB |
| Full-on gain (peak) | 50 dB | 61 dB | 55 dB | 65 dB | 65 dB | 75 dB |
| HFA-FOG | 44 dB | - | 47 dB | - | 60 dB | - |
| Reference test gain | 31 dB | 41 dB | 35 dB | 44 dB | 44 dB | 53 dB |
| Frequency, noise and directivity | | | | | | |
| Frequency range | 100-8400 Hz | 110-9000 Hz | 100-8000 Hz | 110-8500 Hz | 100-6200 Hz | 100-6600 Hz |
| Equivalent input noise | 21 dB SPL | 21 dB SPL | 21 dB SPL | 22 dB SPL | 20 dB SPL | 20 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 Hz | 4 / 3 / 3 % | 3 / 4 / 3 % | 2 / 2 / 2 % | 3 / 5 / 4 % | 2 / 3 / 1 % | 5 / 7 / 2 % |
| AI-DI | 4.8 dB | | 4.8 dB | | 4.8 dB | |
| Inductive coil sensitivity | | | | | | |
| MASL (1 mA/m) at 1.6 kHz | - | 74 dB SPL | - | 85 dB SPL | - | 96 dB SPL |
| HFA MASL (1 mA/m) | 65 dB SPL | - | 77 dB SPL | - | 89 dB SPL | - |
| HFA SPLITS (left/right) | 90 / 90 dB SPL | - | 94 / 94 dB SPL | - | 103 / 103 dB SPL | - |
| RSETS (left/right) | -1 / -1 dB | - | -1 / -1 dB | - | 0 / 0 dB | - |
| Battery | | | | | | |
| Battery voltage | 1.3 V | | 1.3 V | | 1.3 V | |
| Battery current drain | 1.1 mA | | 1.1 mA | | 1.1 mA | |
| Battery life (cell zinc air) Type 312 / 10 | ~ 110 h / ~ 60 h | | ~ 110 h / ~ 60 h | | ~ 110 h / - | |
| Battery life (rechargeable) | - | | - | | - | |
| IRIL IEC 118-13:2011 (bystander) | | | | | | |
| 800-960 MHz | < -6 dB SPL | | < -6 dB SPL | | < -6 dB SPL | |
| 1400-2000 MHz | < -24 dB SPL | | < -24 dB SPL | | < -24 dB SPL | |
| ANSI C63.19 | M4 / T2 | | M4 / T2 | | M4 / T2 | |

Legato CIC · Technical Data

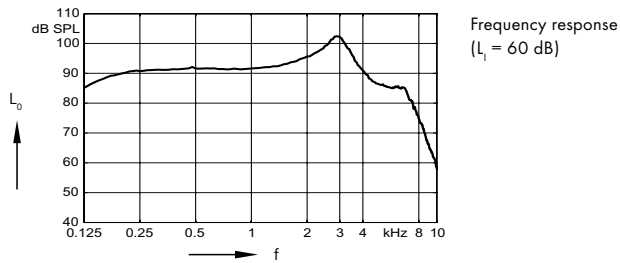
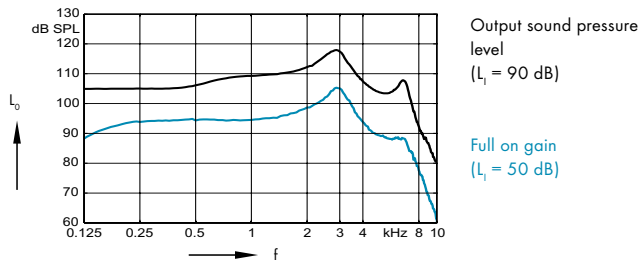
| Type | 113/50 | | 118/55 | | 124/65 | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | | | | | |
| at 1.6 kHz | - | 116 dB SPL | - | 119 dB SPL | - | 127 dB SPL |
| Peak | 113 dB SPL | 124 dB SPL | 118 dB SPL | 128 dB SPL | 124 dB SPL | 134 dB SPL |
| HFA-OSPL 90 | 109 dB SPL | - | 112 dB SPL | - | 119 dB SPL | - |
| Gain | | | | | | |
| Full-on gain (FOG) at 1.6 kHz | - | 52 dB | - | 55 dB | - | 67 dB |
| Full-on gain (peak) | 50 dB | 63 dB | 55 dB | 65 dB | 65 dB | 75 dB |
| HFA-FOG | 45 dB | - | 48 dB | - | 60 dB | - |
| Reference test gain | 32 dB | 41 dB | 35 dB | 44 dB | 43 dB | 52 dB |
| Frequency, noise and directivity | | | | | | |
| Frequency range | 100-8600 Hz | 110-10000 Hz | 100-8900 Hz | 130-10000 Hz | 100-6300 Hz | 100-7900 Hz |
| Equivalent input noise | 21 dB SPL | 21 dB SPL | 18 dB SPL | 19 dB SPL | 18 dB SPL | 18 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 Hz | 3 / 3 / 2 % | 4 / 5 / 4 % | 1 / 1 / 1 % | 1 / 2 / 2 % | 1 / 2 / 1 % | 3 / 4 / 1 % |
| AI-DI | - | - | - | - | - | - |
| Inductive coil sensitivity | | | | | | |
| MASL (1 mA/m) at 1.6 kHz | - | - | - | - | - | - |
| HFA MASL (1 mA/m) | - | - | - | - | - | - |
| HFA SPLITS (left/right) | - | - | - | - | - | - |
| RSETS (left/right) | - | - | - | - | - | - |
| Battery | | | | | | |
| Battery voltage | 1.3 V | | 1.3 V | | 1.3 V | |
| Battery current drain | 1.0 mA | | 1.0 mA | | 1.1 mA | |
| Battery life (cell zinc air) Type 10 | ~ 70 h | | ~ 70 h | | ~ 65 h | |
| Battery life (rechargeable) | - | | - | | - | |
| IRIL IEC 118-13:2011 (bystander) | | | | | | |
| 800-960 MHz | < -6 dB SPL | | < -6 dB SPL | | < -6 dB SPL | |
| 1400-2000 MHz | < -24 dB SPL | | < -24 dB SPL | | < -24 dB SPL | |
| ANSI C63.19 | M4 | | M4 | | M4 | |

Legato ITE · Basic Data

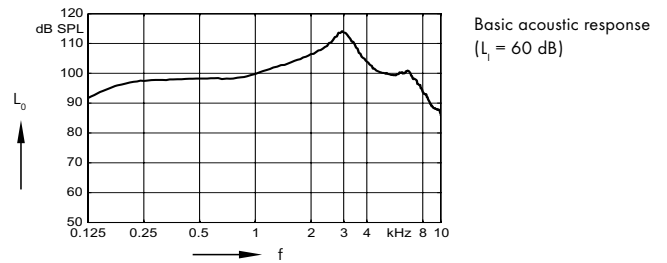
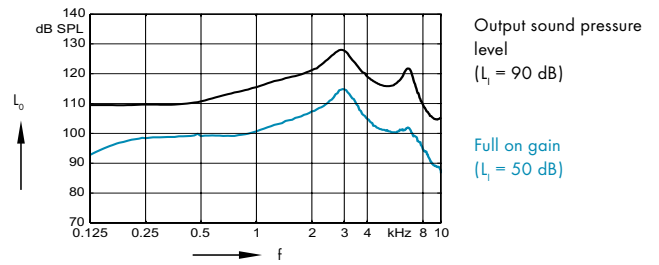
118/55



2 ccm coupler

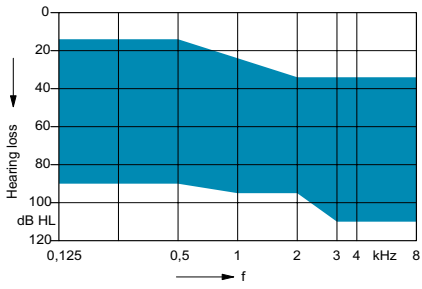


Ear simulator

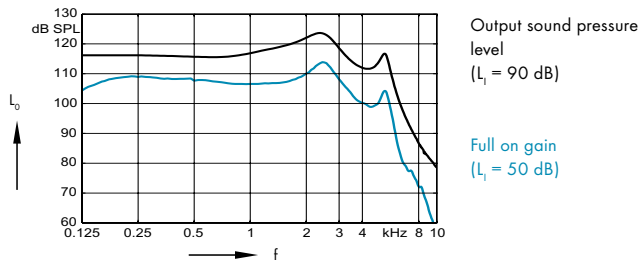


Legato ITE · Basic Data

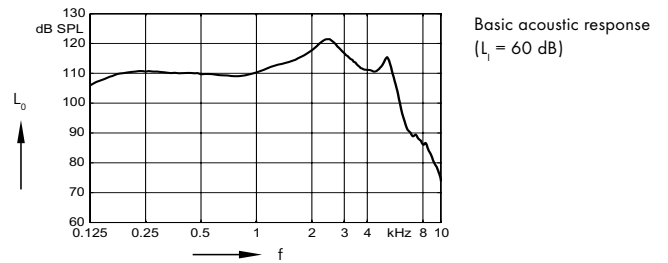
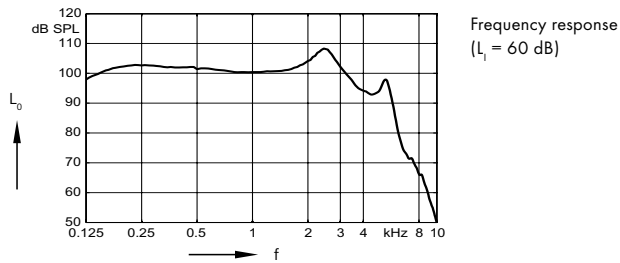
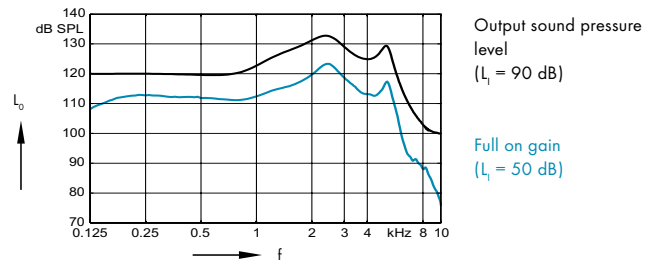
124/65



2 ccm coupler

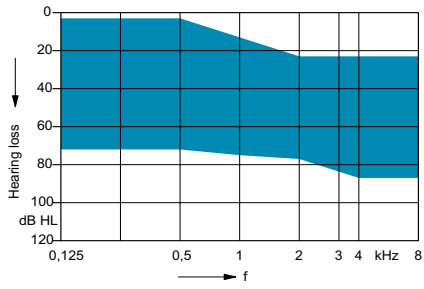


Ear simulator

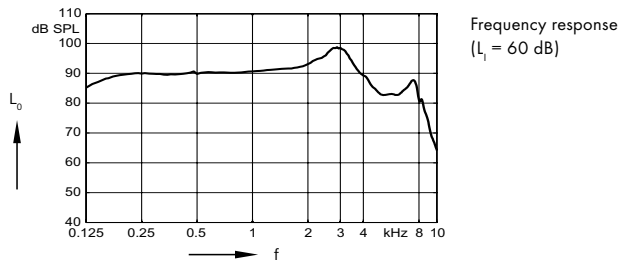
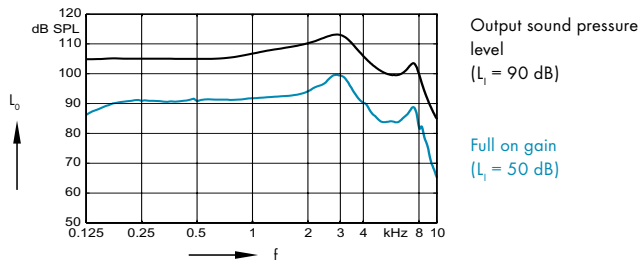


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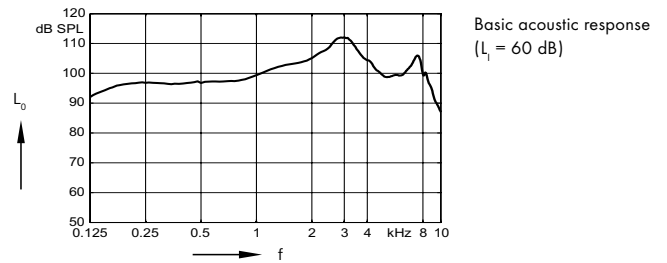
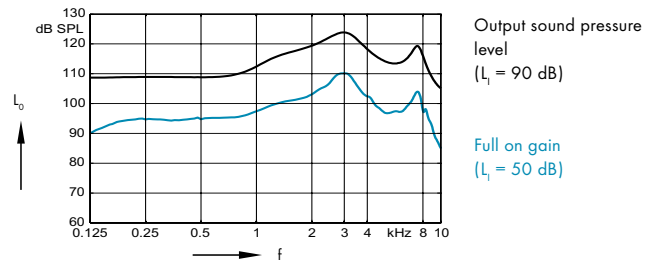
113/50



2 ccm coupler

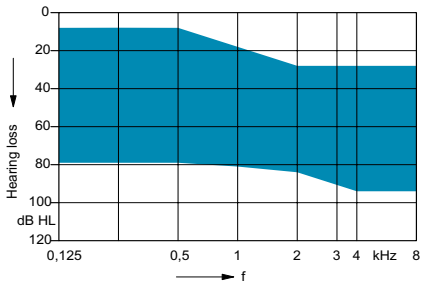


Ear simulator

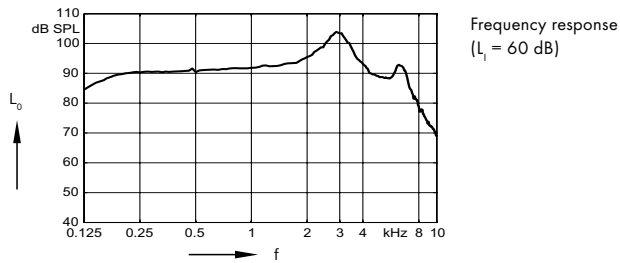
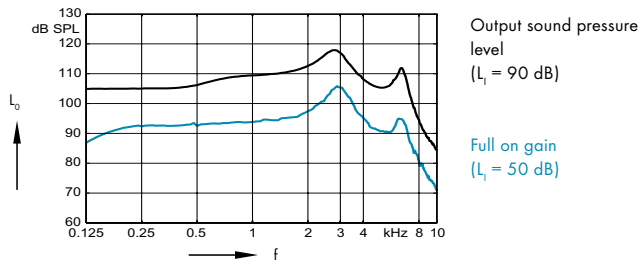


Legato ITC · Basic Data

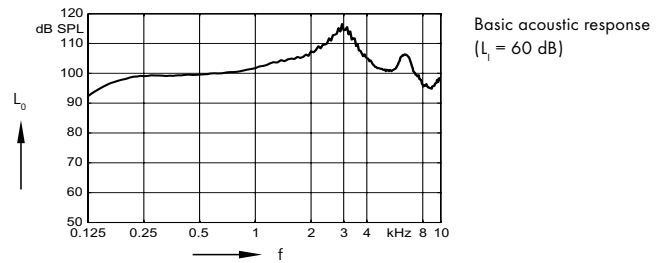
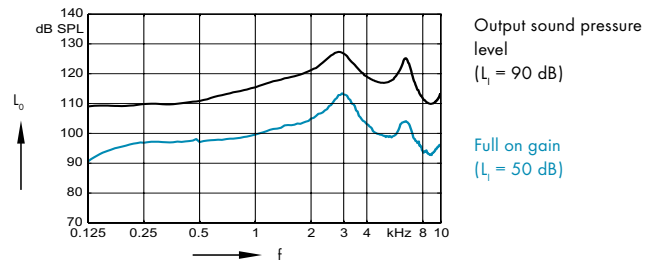
118/55



2 ccm coupler

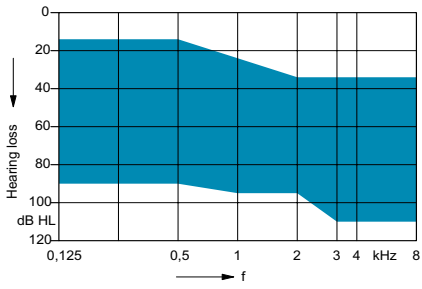


Ear simulator

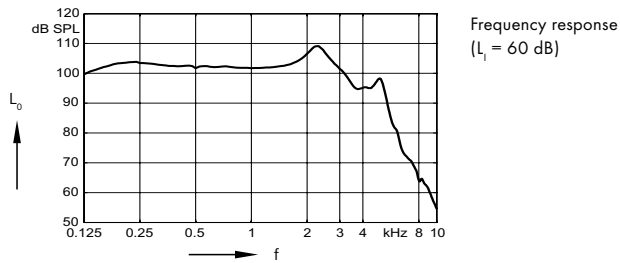
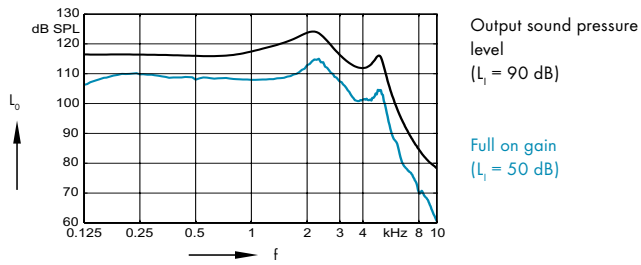


Legato ITC · Basic Data

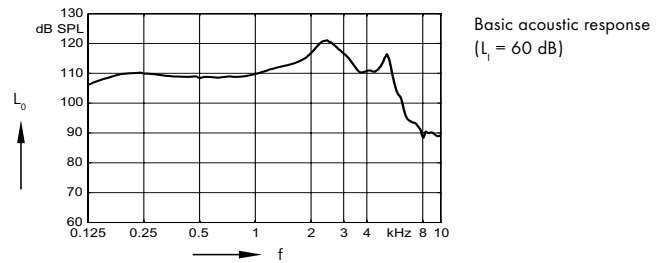
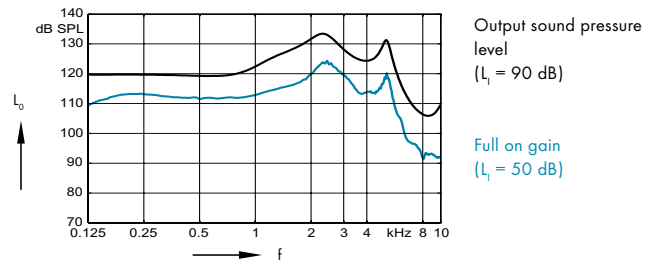
124/65



2 ccm coupler

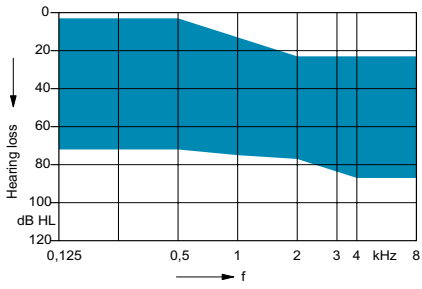


Ear simulator

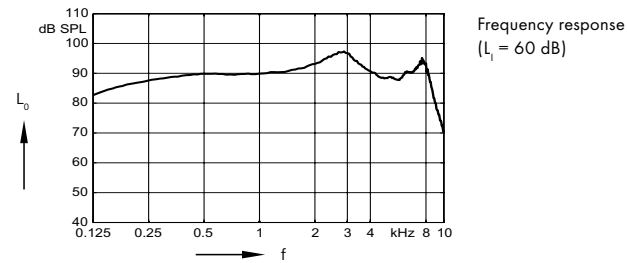
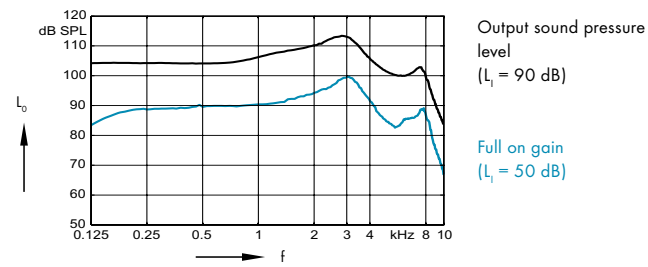


Legato CIC · Basic Data

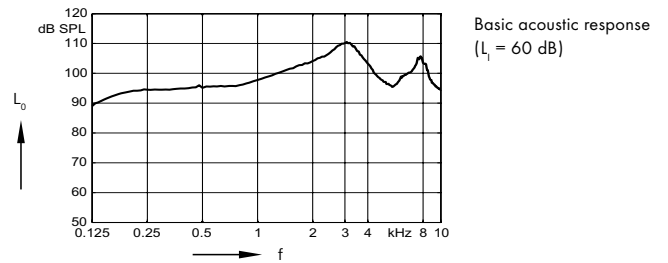
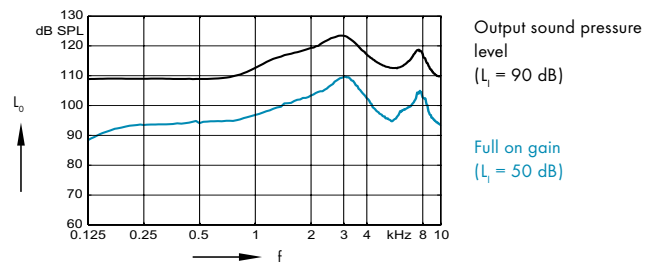
113/50



2 ccm coupler

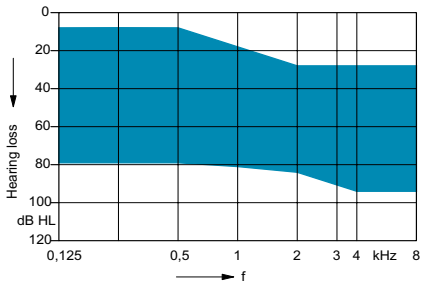


Ear simulator

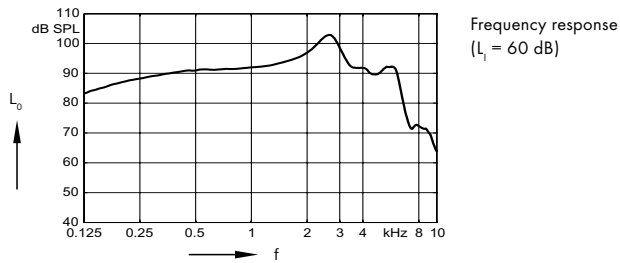
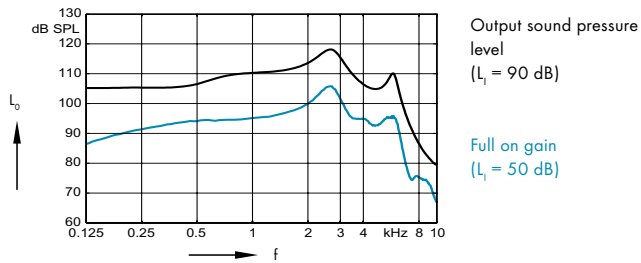


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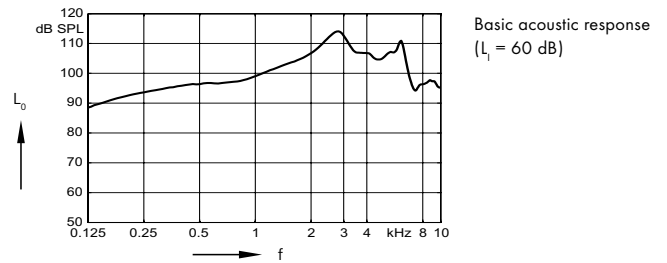
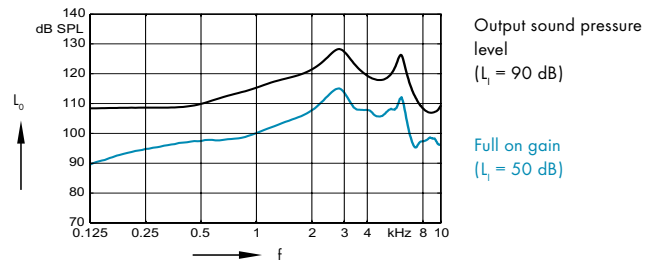
118/55



2 ccm coupler

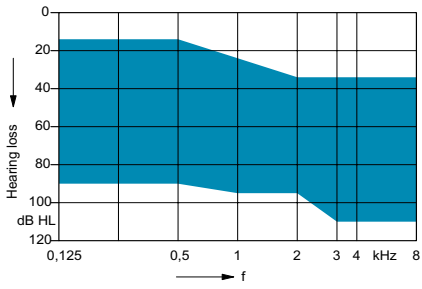


Ear simulator

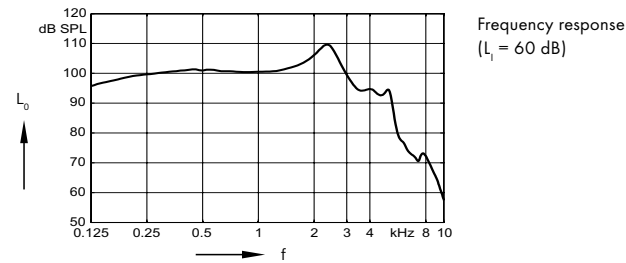
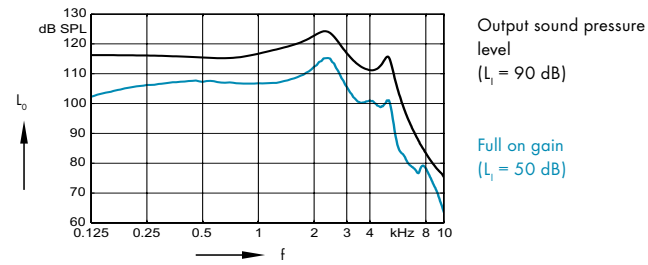


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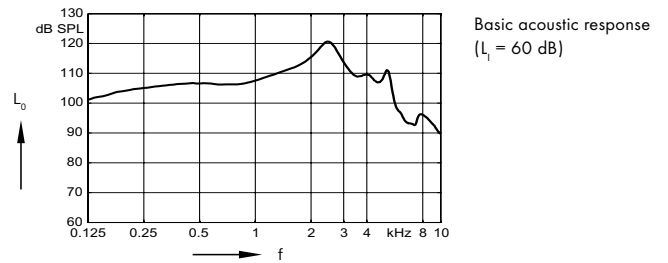
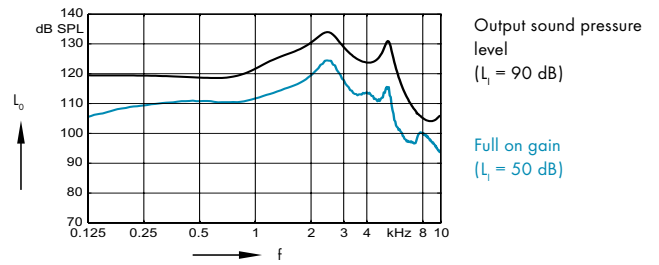
124/65



2 ccm coupler



Ear simulator



Legato Custom

Features and Accessories

TruCore Platform

- Wireless sync (P) ¹⁾
- Volume and control coupling (P) ¹⁾
- 48 signal processing channels
- 20 gain handles
- 6 hearing programs

Optional Hardware

- Directional microphone
- Volume control
- Push button
- Telecoil
- Wireless
- Autophone

TruCore Speech

- HD Bandwidth (up to 10 kHz) (P)
- iFocus 360 (P) ²⁾
- Focus 360 (P) ³⁾
- HD Directionality (P) ³⁾
- Directional iLock (P) ²⁾
- Voice Ranger (P)
- XPhone (P) ⁴⁾
- Multichannel adaptive directional microphone (P) ³⁾
- Automatic Directional Microphone (P) ³⁾
- Bandwidth Compression (P)
- Feedback Preventer (P)

Sound Quality and Comfort

- Microphone-pattern adjustment (P) ²⁾
(Smart Connect App recommended)
- Reverb Reducer (P)
- Sound Radiance (P) ⁵⁾
- Music Enhancer (P)
- Adaptive streaming volume (P) ⁵⁾
- Sound Locator (P) ³⁾
- 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™ ⁶⁾
- Smart Connect™ ⁶⁾ (for Bluetooth connection with cell phones and stereo audio streaming)
- Smart Connect App ⁶⁾ (requires Smart Connect)
- Smart Remote App (provides the main functionality of the Smart Remote with just an app, wireless option not required)
- Transmitter ⁶⁾ (requires Smart Connect)
- Speech Connect ⁶⁾ (requires Smart Connect)
- Wired programming via Flex Connector
- Wireless programming with ConnexxLink™ ⁶⁾

¹⁾ Bilateral fitting and wireless option required

²⁾ Bilateral fitting, wireless option and directional microphone required

³⁾ Directional microphone required

⁴⁾ Bilateral fitting, wireless option and Autophone required

⁵⁾ Only in streaming mode, Smart Connect required

⁶⁾ Wireless option required

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

Legato Custom

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.

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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Legal Manufacturer
Sivantos GmbH
Henri-Dunant-Strasse 100, 91058 Erlangen
Germany

Subject to change without prior notice

Order No. 03076-99T3-7600
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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.

REXTON 