

BTE HEARING SYSTEMS B P 7

Tech Level | 6 | 4 | 3

Made for **★iPhone** | iPad | iPod



Battery: 13

Amplification: 77 dB (Earhook) | 66 dB (ThinTube 3.0) | 70 dB (ThinTube 3.0 P)

BP7 | Technical Data

| Туре | Earhook | | |
|---|----------------------------------|-----------------|--|
| | 2 ccm coupler | Ear simulator | |
| Output sound pressure level | | | |
| OSPL 90 at 1.6 kHz | _ | 136 dB SPL | |
| OSPL 90 (peak) | 135 dB SPL | 139 dB SPL | |
| HFA OSPL 90 | 130 dB SPL – | | |
| Gain | | | |
| FOG at 1.6 kHz | _ | 77 dB | |
| FOG (peak) | 77 dB | 82 dB | |
| HFA FOG | 71 dB | _ | |
| Reference test gain | 53 dB | 61 dB | |
| Frequency, noise and directivity | | | |
| Frequency range | 100 – 6200 Hz | 140 – 6300 Hz | |
| Equivalent input noise | 15 dB SPL | 15 dB SPL | |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 4/3/1/1% | 5 / 4 / 1 / – % | |
| Tinnitus Function broadband | 80 dB SPL | - | |
| AI-DI | 4.0 dB | | |
| Latency | < 15 ms | | |
| Inductive coil sensitivity | | | |
| MASL (1 mA/m) at 1.6 kHz | | 106 dB SPL | |
| HFA MASL (1 mA/m) | 101 dB SPL | _ | |
| HFA SPLITS (left/right) | 113 / 113 dB SPL | _ | |
| RSETS (left/right) | 0 / 0 dB | _ | |
| HFA SPLIV | 113 dB SPL | - | |
| Battery | | | |
| Battery voltage | 1.3 V | | |
| Battery current drain | 1.9 mA | 1.6 mA | |
| Battery runtime (without streaming) | up to 148 h | | |
| Battery runtime (incl. 20 h streaming) | up to 115 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 | | |

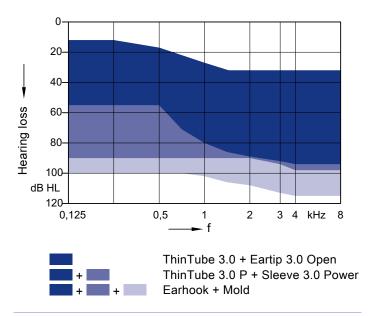
Please find additional information to the values on page "Further information".

BP7 | Technical Data

| Туре | ThinTube 3.0 | | ThinTube 3.0 P | |
|---|----------------------------------|-----------------|----------------------------------|-----------------|
| | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | | | |
| OSPL 90 at 1.6 kHz | _ | 123 dB SPL | _ | 129 dB SPL |
| OSPL 90 (peak) | 129 dB SPL | 133 dB SPL | 130 dB SPL | 134 dB SPL |
| HFA OSPL 90 | 118 dB SPL | _ | 122 dB SPL | - |
| Gain | | | | |
| FOG at 1.6 kHz | _ | 62 dB | _ | 72 dB |
| FOG (peak) | 66 dB | 69 dB | 70 dB | 74 dB |
| HFA FOG | 57 dB | _ | 64 dB | - |
| Reference test gain | 41 dB | 48 dB | 46 dB | 54 dB |
| Frequency, noise and directivity | | | | |
| Frequency range | 100 – 6200 Hz | 100 – 6400 Hz | 100 – 5300 Hz | 140 – 5200 Hz |
| Equivalent input noise | 17 dB SPL | 17 dB SPL | 17 dB SPL | 17 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 1/1/1/1% | 1 / 1 / 2 / – % | 2/1/1/1% | 3 / 1 / 2 / – % |
| Tinnitus Function broadband | 80 dB SPL | _ | 80 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 | _ | 92 dB SPL | _ | 102 dB SPL |
| HFA MASL (1 mA/m) | 86 dB SPL | _ | 93 dB SPL | - |
| HFA SPLITS (left/right) | 101 / 101 dB SPL | _ | 105 / 105 dB SPL | - |
| RSETS (left/right) | 0 / 0 dB | _ | 0 / 0 dB | - |
| HFA SPLIV | 101 dB SPL | _ | 105 dB SPL | - |
| Battery | | | | |
| Battery voltage | 1.3 V | | 1.3 V | |
| Battery current drain | 1.7 mA | 1.6 mA | 1.6 mA | 1.6 mA |
| Battery runtime (without streaming) | up to 150 h | | up to 153 h | |
| Battery runtime (incl. 20 h streaming) | up to 117 h | | up to 123 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".

B P 7 | Fitting Range



Earhook | Basic Data

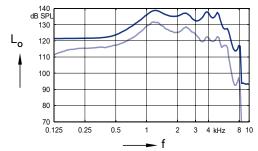
2 ccm coupler

140 dB SPL 130 120 110 100 90 80 70 0.125 3 4 kHz 2

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

Full on gain $(L_1 = 50 \text{ dB})$

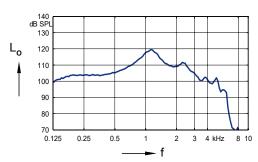
Ear simulator



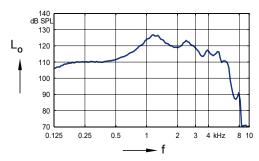
Max. Output sound pressure level

 $(L_i = 90 dB)$

Full on gain $(L_1 = 50 \text{ dB})$

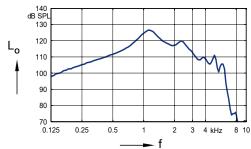


Frequency response $(L_1 = 60 \text{ dB})$

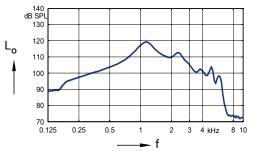


Basic acoustic response $(L_1 = 60 \text{ dB})$

Inductive response

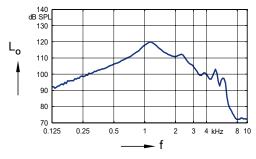


Inductive response (H = 10 mA/m)



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 | Basic Data

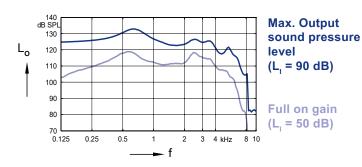
2 ccm coupler

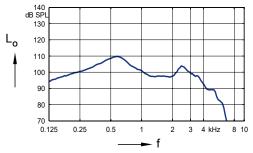
140 dB SPL 130 120 110 100 90 80 70 0.125 3 4 kHz 2

Max. Output sound pressure level $(L_1 = 90 \text{ dB})$

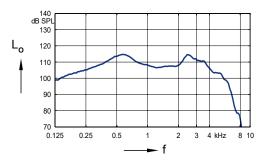
Full on gain $(L_1 = 50 \text{ dB})$

Ear simulator



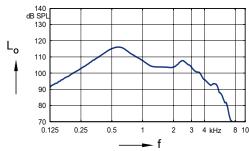


Frequency response $(L_1 = 60 \text{ dB})$

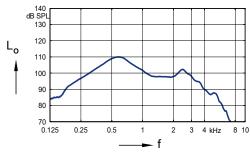


Basic acoustic response $(L_1 = 60 \text{ dB})$

Inductive response

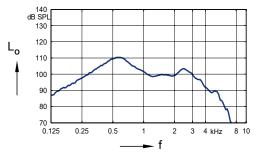


Inductive response (H = 10 mA/m)



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

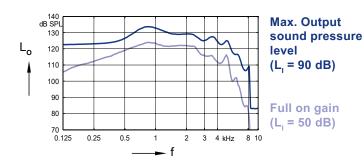
2 ccm coupler

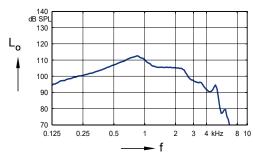
140 dB SPL 130 120 110 90 80 70 0.125 0.25 0.5 1 2 3 4 kHz 8 10

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

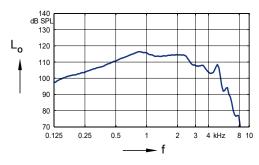
Full on gain $(L_1 = 50 \text{ dB})$

Ear simulator



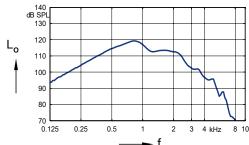


Frequency response (L, = 60 dB)

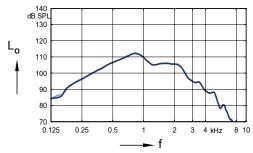


Basic acoustic response (L₁ = 60 dB)

Inductive response

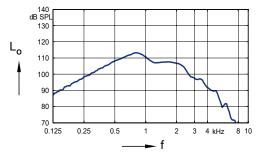


Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)



SPLIV curve (H = 31.6 mA/m)

B P 7 | Features and Accessories

| | TL 6 | TL 4 | TL 3 |
|--|--|--|----------------------|
| Features | | | |
| Ingress Protection Rating | IP68 | IP68 | IP68 |
| Channels / Controls / Programs | 16 / 8 / 4 | 16 / 8 / 4 | 12 / 6 / 4 |
| Comformatic 2.0 | HiRes | HiRes | HiRes |
| Occlumatic 2.0 | _ | _ | _ |
| Direct Audio Streaming | Made for iPhone/ Android version 10 or higher (ASHA) | Made for iPhone/ Android version 10 or higher (ASHA) | _ |
| Headset Mode for iOS | _ | _ | _ |
| Auto Volume | • | • | _ |
| Binaural Synchronization | • | • | • |
| Directionality | Automatic adaptive, Panorama | Automatic adaptive, Panorama | Automatic fixed omni |
| Noise Reduction | Noise Management, Impulse suppressor | Noise Management | Noise Management |
| Wind Noise Reduction | • | - | _ |
| EchoClear Auto | _ | - | _ |
| EchoClear / Dereverberation | _ | - | _ |
| HiFi functionality / Selective frequency compression | <i>—1</i> ● | <i>—1</i> ● | —/— |
| Music (presets) | 1 | _ | _ |
| Tinnitus | Sound Therapy, Notch Therapy | _ | _ |
| 2earPhone | • | • | _ |
| Acclimatic / Data Logging | • / • | • 1 • | —/● |
| T-Coil | • | • | • |
| Battery door – tamper proof | 0 | 0 | 0 |
| Battery size | 13 | 13 | 13 |
| Accessories | | | |
| Smart Key | 0 | 0 | 0 |
| Smart Transmitter 2,4 | 0 | 0 | _ |
| Smart Mic | 0 | 0 | _ |
| Audio Service App | 0 | 0 | 0 |
| Noahlink Wireless | mandatory | mandatory | mandatory |
| Small earhook | 0 | 0 | 0 |
| CROS R Li 7 | 0 | 0 | _ |
| CROS R S 7 | 0 | 0 | _ |
| CROS SR Li 7 | _ | _ | _ |

available — not available O optional

BP7 Further information

Abbreviations

The following abbreviations are used in this datasheet:

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 ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- All measurements with an ear simulator were performed according to IEC 60118-0:1983 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to IEC 60118-13:2019, 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 TL 16 devices only.
- The following acoustic connections/ear pieces were used:
 - Earhook
 - ThinTube 3.0
 - ThinTube 3.0 P

Made for **€ iPhone** | **iPad** | **iPod**

"Made for iPhone", "Made for iPad", and "Made for iPod" mean that an electronic accessory has been designed to connect specifically to iPhone, iPad, or iPod, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, iPad, or iPod may affect wireless performance.

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.

Legal Manufacturer

WSAUD A/S Nymøllevej 6 3540 Lynge Denmark

Order No. 05284-99T01-7600 www.wsaud.com © 12.2022, WSAUD A/S All rights reserved

Subject to change without prior notice



⚠ 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.