PHILIPS

HearLink

Technical data

HearLink 9050 | 7050 | 5050 | 3050

BTE T 105

Philips HearLink 50 BTE T 105 is a powerful hearing aid for users with slight to profound hearing loss featuring a disposable battery, undamped hook, thin tubes, and various domes and moulds. SoundMap 3 includes advanced audiological features. It includes Bluetooth® LE Audio, Bluetooth Low Energy, and Auracast™ broadcast and supports hands-free communication and direct streaming for iPhone, iPad, Vision Pro, Apple Watch, Mac and select Android™ devices.

Hook	Thin tube 1.3 mm	Thin tube 0.9 mm
		
BTE T 105	BTE T 105	BTE T 105

Technical Features

- Auracast™ broadcast
- Bluetooth® LE Audio
- Bluetooth® Low Energy
- Fast Pair
- Telecoil
- NFMI (Near-Field Magnetic Induction)
- Double push-button
- IP68 rated

Accessories

- Philips HearLink 2 app
- Philips AudioClip
- Philips TV Adapter
- Philips Remote Control
- Hook and thin tube
- Size 13 zinc air battery

For information on compatibility, please visit hearingsolutions.philips.com/compatibility.
This hearing aid also comes as DemoFlex with the same technical data.

Operating conditions
Temperature: +1°C to +40°C (+34°F to +104°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Transportation and storage conditions
Temperature and humidity shall not exceed the mentioned limits during transportation and storage.

Transportation
Temperature: -25°C to +60°C (-13°F to +140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Storage
Temperature: -25°C to +60°C (-13°F to +140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

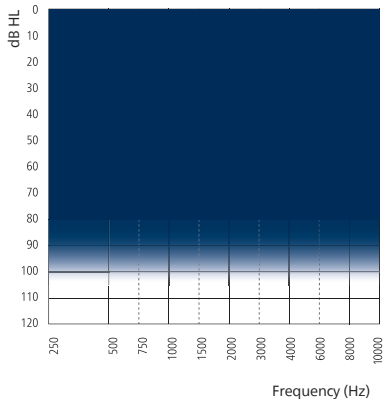
WARNING: No modification of this equipment is allowed.

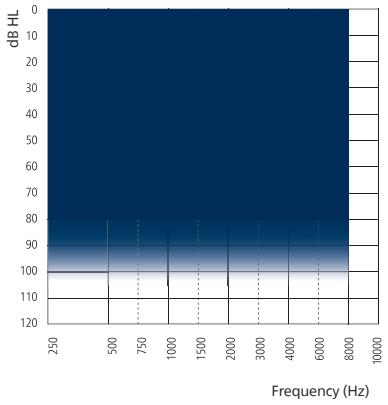
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Made for iPhone | iPad · Mac · Works with android · AURACAST A BLUETOOTH® TECHNOLOGY

Fitting ranges

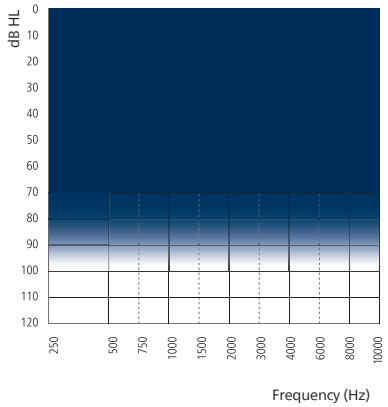
Philips HearLink 9050 | **Philips HearLink 7050 | 5050 | 3050**

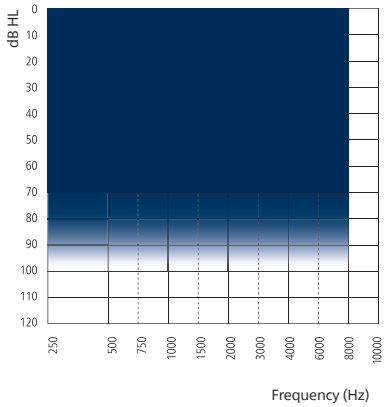




105

Hook





105

Thin tube

Feature overview

	HearLink 9050	HearLink 7050	HearLink 5050	HearLink 3050
SoundMap 3 Amplification				
Frequency Bandwidth	10 kHz	8 kHz	8 kHz	8 kHz
Extended Dynamic Range	•	•	—	—
Low Frequency Enhancement	•	•	•	•
Frequency Lowering	•	•	•	•
Comfort Control	4 options	2 options	—	—
Noise reduction				
AI Noise Reduction	5 options	4 options	3 options	2 options
Speech Clarifier	3 options	2 options	—	—
Transition	4 options	3 options	2 options	1 option
SoundProtect Transient Noise Reduction	6 options	5 options	4 options	2 options
SoundProtect Wind Noise Management	•	•	•	•
Soft Noise Management	•	•	•	•
Binaural Noise Management	•	•	•	—
Directionality				
Dynamic Directionality	•	•	•	—
Pinna Mode	2 options	2 options	•	•
Adaptive/Fixed/Omni Directionality	•	•	•	•
Feedback canceller				
Strength control	•	•	•	•
SoundTie 4 with Bluetooth® LE Audio, Auracast™ broadcast, MFi and ASHA				
Direct Streaming[1]	•	•	•	•
Hands-free communication[1]	•	•	•	•
Binaural coordination (NFMI)				
Binaural Volume and Program Change	•	•	•	•
Programming options				
Fitting Bands	24	20	18	14
Environments	13	11	11	9
Manual Listening Programs	4	4	4	4
HiFi Music Program	•	•	•	•
Airplane Program	•	—	—	—
Data Logging and Connection Count	•	•	•	•
Audible Indicators & Notify Me	•	•	•	•
Adaptation Manager	•	•	•	•
CROS compatibility	•	•	•	•
Tinnitus SoundSupport	•	•	•	•

1) Available on select devices. For more information, please visit hearingsolutions.philips.com/compatibility

HearLink 9050 BTE T 105

Ear Simulator

Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2022, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010



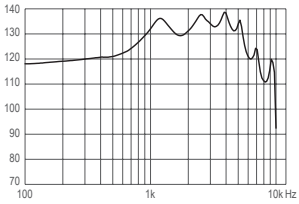
Technical information
Omnidirectional mode is used unless otherwise stated.

105 hook (undamped) / Thin tube 1.3
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

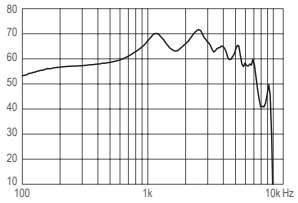
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

105 hook (undamped)

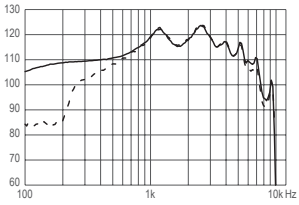
OSPL90 (dB SPL)



Full-on gain (dB)

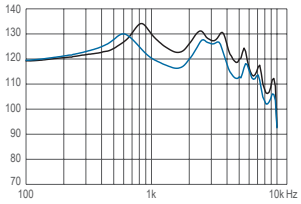


Frequency response (dB SPL)

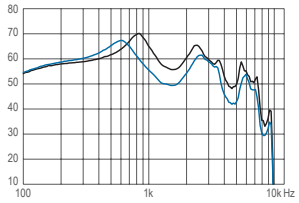


Thin tube 1.3 / Thin tube 0.9

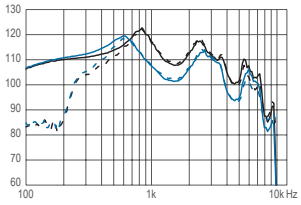
OSPL90 (dB SPL)



Full-on gain (dB)



Frequency response (dB SPL)



	105 hook (undamped)	Thin tube 1.3	Thin tube 0.9
OSPL90, Peak (dB SPL)	139	134	130
OSPL90, 1600 Hz (dB SPL)	130	123	116
OSPL90, HFA (dB SPL)	133	128	121
Full-on gain, Peak (dB)[1]	72	70	67
Full-on gain, 1600 Hz (dB)[1]	63	56	49
Full-on gain, HFA (dB)[1]	67	62	55
Reference test gain (dB)	56	48	42
Frequency range (Hz)	<100-9400	<100-7600	<100-7700
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	94	87	81
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	114	107	101
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	7	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	5	<2	<2
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	19	23	28
Battery consumption, Typical (mA)[2]	2.1	2.1	2.1
Battery consumption, Quiescent (mA)[2]	2.0	2.0	2.0
Battery life, artificial measurement, hours[3]	150	150	150
Expected battery life, hours (battery size 13 - IEC PR48)[4]	85-105	85-105	85-105

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response but without influence of feedback.
2) Battery current is measured after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement. The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (2cc coupler). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

HearLink 9050 BTE T 105

2CC Coupler

Measured according to ANSI S3.22-2024,
IEC 60118-0:2022 and IEC 60318-5:2006



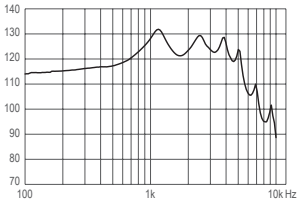
Technical information
Omnidirectional mode is used unless otherwise stated.

105 hook (undamped) / Thin tube 1.3
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

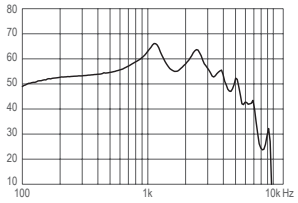
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

105 hook (undamped)

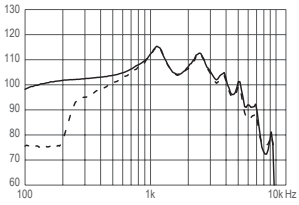
OSPL90 (dB SPL)



Full-on gain (dB)

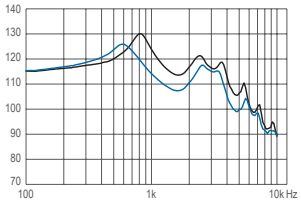


Frequency response (dB SPL)

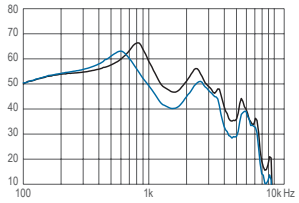


Thin tube 1.3 Thin tube 0.9

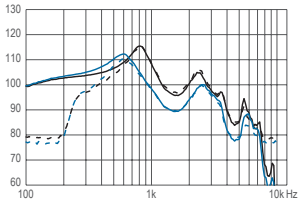
OSPL90 (dB SPL)



Full-on gain (dB)



Frequency response (dB SPL)



	105 hook (undamped)	Thin tube 1.3	Thin tube 0.9
OSPL90, Peak (dB SPL)	132	130	126
OSPL90, HFA (dB SPL)	126	119	113
Full-on gain, Peak (dB)[1]	66	66	63
Full-on gain, HFA (dB)[1]	61	54	47
Reference test gain (dB)	50	43	36
Frequency range (Hz)	<100-7000	<100-7300	<100-7300
Telecoil output, HFA SPLITS L/R (dB SPL)	109	100	94
Telecoil output, Full-on HFA-SPLIV (dB SPL)	110	105	98
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	4	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	3	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2
Total harmonic distortion (Input 60 dB SPL), 3200 Hz (%)	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	15	20	26
Battery consumption, Typical (mA)[2]	2.4	2.5	2.4
Battery consumption, Quiescent (mA)[2]	2.0	2.0	2.0
Battery life, artificial measurement, hours[3]	130	125	130
Latency, (ms)	8.4	8.4	8.4
Expected battery life, hours (battery size 13 - IEC PR48)[4]	85-105	85-105	85-105

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response but without influence of feedback.
2) Battery current is measured after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement. The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (2cc coupler). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

HearLink 7050 | 5050 | 3050 BTE T 105

Ear Simulator

Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2022, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010



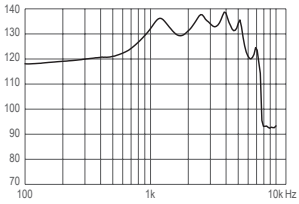
Technical information
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105 hook (undamped) / Thin tube 1.3
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

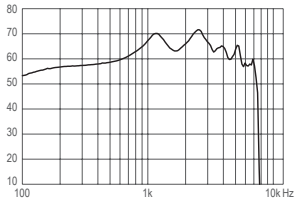
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

105 hook (undamped)

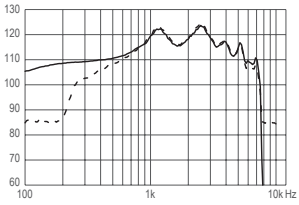
OSPL90 (dB SPL)



Full-on gain (dB)

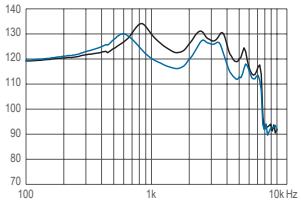


Frequency response (dB SPL)

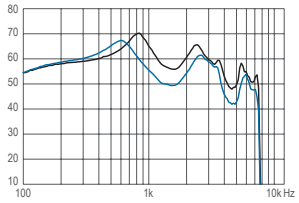


Thin tube 1.3 | Thin tube 0.9

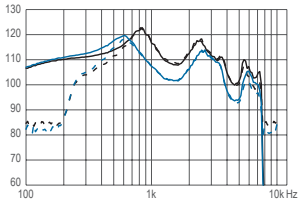
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Reference test gain (dB)	56	48	42
Frequency range (Hz)	<100-7500	<100-7500	<100-7500
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	94	87	81
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	114	107	101
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Equivalent input noise level, Omni (dB SPL)	19	23	28
Battery consumption, Typical (mA)[2]	2.1	2.1	2.1
Battery consumption, Quiescent (mA)[2]	2.0	2.0	2.0
Battery life, artificial measurement, hours[3]	150	150	150
Expected battery life, hours (battery size 13 - IEC PR48)[4]	85-105	85-105	85-105

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2) Battery current is measured after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement. The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

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2CC Coupler

Measured according to ANSI S3.22-2024,
IEC 60118-0:2022 and IEC 60318-5:2006



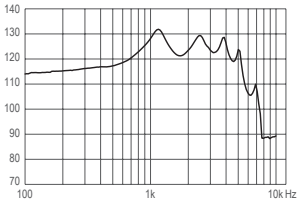
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Magnetic input: 31.6 mA/m

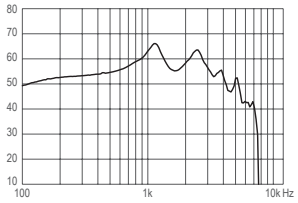
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

105 hook (undamped)

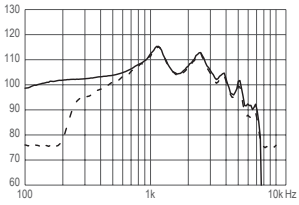
OSPL90 (dB SPL)



Full-on gain (dB)

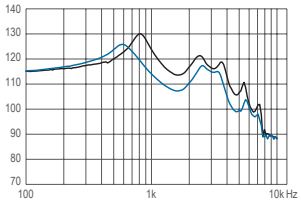


Frequency response (dB SPL)

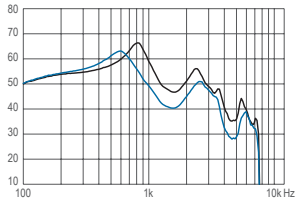


Thin tube 1.3 Thin tube 0.9

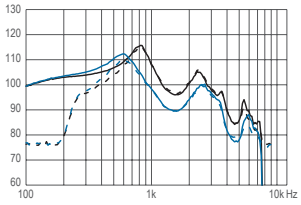
OSPL90 (dB SPL)



Full-on gain (dB)



Frequency response (dB SPL)



	105 hook (undamped)	Thin tube 1.3	Thin tube 0.9
OSPL90, Peak (dB SPL)	132	130	126
OSPL90, HFA (dB SPL)	126	119	113
Full-on gain, Peak (dB)[1]	66	66	63
Full-on gain, HFA (dB)[1]	61	54	47
Reference test gain (dB)	50	43	36
Frequency range (Hz)	<100-7000	<100-7300	<100-7300
Telecoil output, HFA SPLITS L/R (dB SPL)	109	100	94
Telecoil output, Full-on HFA-SPLIV (dB SPL)	110	105	98
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	4	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	3	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2
Total harmonic distortion (Input 60 dB SPL), 3200 Hz (%)	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	15	20	26
Battery consumption, Typical (mA)[2]	2.4	2.5	2.4
Battery consumption, Quiescent (mA)[2]	2.0	2.0	2.0
Battery life, artificial measurement, hours[3]	130	125	130
Latency, (ms)	8.4	8.4	8.4
Expected battery life, hours (battery size 13 - IEC PR48)[4]	85-105	85-105	85-105

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response but without influence of feedback.
2) Battery current is measured after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement. The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (2cc coupler). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

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