Audio Service

CUSTOM HEARING SYSTEMS

CIC 8 / DIC 8

Tech Level | 16 | 12 | 8 | 6 | 4 | tune

CIC

113 / 50

- 50 dB / 113 dB SPL (2 ccm coupler)
- 60 dB / 124 dB SPL (Ear simulator)

118 / 55

- 55 dB / 118 dB SPL (2 ccm coupler)
- 65 dB / 127 dB SPL (Ear simulator)

124 / 60

- 60 dB / 124 dB SPL (2 ccm coupler)
- 70 dB / 133 dB SPL (Ear simulator)

DIC

113 / 50

- 50 dB / 113 dB SPL (2 ccm coupler)
- 60 dB / 124 dB SPL (Ear simulator)

Data sheet also applicable for CIC tu 8, DIC tu 8

CIC 8 | Technical Data

Type	113/50		118/55		124/60	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
OSPL 90 at 1.6 kHz	—	116 dB SPL	—	117 dB SPL	—	126 dB SPL
OSPL 90 (peak)	113 dB SPL	124 dB SPL	118 dB SPL	127 dB SPL	124 dB SPL	133 dB SPL
HFA OSPL 90	107 dB SPL	—	109 dB SPL	—	118 dB SPL	—
Full-on gain						
FOG at 1.6 kHz	—	52 dB	—	57 dB	—	65 dB
FOG (peak)	50 dB	60 dB	55 dB	65 dB	60 dB	70 dB
HFA FOG	45 dB	—	50 dB	—	57 dB	—
Reference test gain	30 dB	41 dB	32 dB	42 dB	42 dB	51 dB
Frequency, noise and directivity						
Frequency range TL 16	100–10600 Hz	100–10600 Hz	100–9500 Hz	110–10600 Hz	100–7800 Hz	100–8900 Hz
TL 12	100– 8700 Hz	100– 8700 Hz	100–8700 Hz	110– 8700 Hz	100–7800 Hz	100–8700 Hz
TL 8, 6, 4	100– 8200 Hz	100– 8200 Hz	100–8200 Hz	110– 8200 Hz	100–7800 Hz	100–8200 Hz
Equivalent input noise	18 dB SPL	25 dB SPL	18 dB SPL	19 dB SPL	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 3 / 2 / 1 %	3 / 5 / 5 / — %	1 / 1 / 1 / 1 %	2 / 2 / 2 / — %	1 / 3 / 1 / 1 %	2 / 6 / 2 / — %
Tinnitus noiser broadband	66 dB SPL	—	74 dB SPL	—	78 dB SPL	—
AI-DI	—		—		—	
Latency	< 15 ms		< 15 ms		< 15 ms	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	—	—	—	—	—	—
HFA MASL (1 mA/m)	—	—	—	—	—	—
HFA SPLITS (left/right)	—	—	—	—	—	—
RSETS (left/right)	—	—	—	—	—	—
HFA SPLIV	—	—	—	—	—	—
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.0 mA
Battery runtime	up to 75 h		up to 75 h		up to 75 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		0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	—		—		—	

— not applicable

Refer to section “Further information” for additional information on the values.

DIC 8 | Technical Data

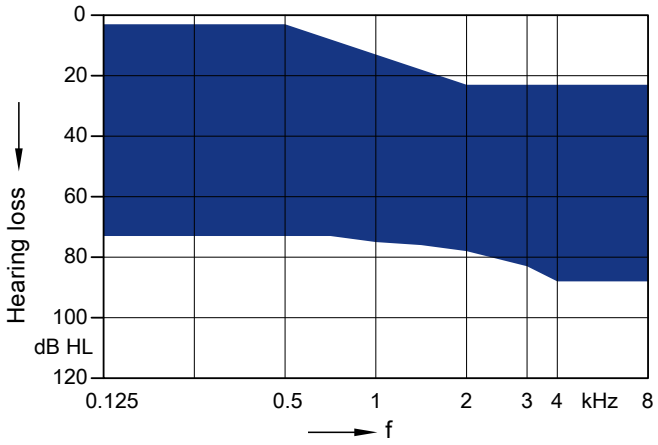
Type		113/50	
		2 ccm coupler	Ear simulator
Output sound pressure level			
OSPL 90 at 1.6 kHz		—	117 dB SPL
OSPL 90 (peak)		113 dB SPL	124 dB SPL
HFA OSPL 90		108 dB SPL	—
Full-on gain			
FOG at 1.6 kHz		—	50 dB
FOG (peak)		50 dB	60 dB
HFA FOG		44 dB	—
Reference test gain		31 dB	42 dB
Frequency, noise and directivity			
Frequency range	TL 16	100–9500 Hz	100–10600 Hz
	TL 12	100–8700 Hz	100– 8700 Hz
	TL 8, 6, 4	100–8200 Hz	100– 8200 Hz
Equivalent input noise		21 dB SPL	23 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz		3 / 3 / 2 / 1 %	4 / 6 / 5 / — %
Tinnitus noiser broadband		67 dB SPL	—
AI-DI		—	
Latency		< 15 ms	
Inductive coil sensitivity			
MASL (1 mA/m) at 1.6 kHz		—	—
HFA MASL (1 mA/m)		—	—
HFA SPLITS (left/right)		—	—
RSETS (left/right)		—	—
HFA SPLIV		—	—
Battery			
Battery voltage		1.3 V	
Battery current drain		1.0 mA	1.0 mA
Battery runtime		up to 75 h	
Cellphone compatibility			
Microphone mode		0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode		—	

— not applicable

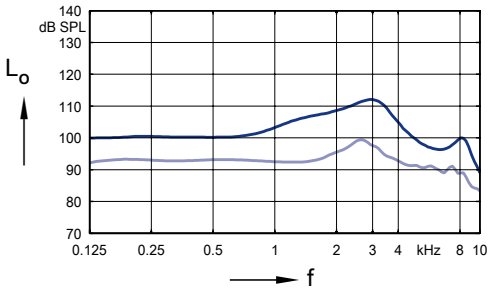
Refer to section “Further information” for additional information on the values.

CIC 8 | Basic Data

113 / 50

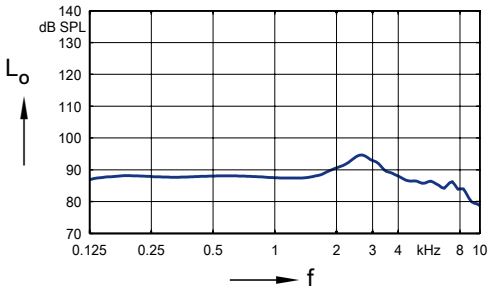


2 ccm coupler



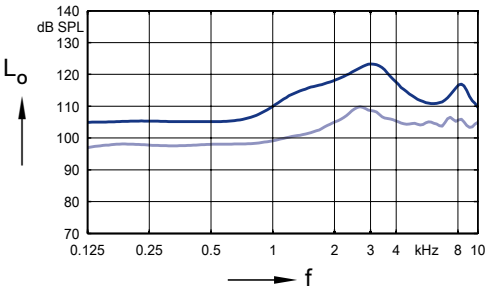
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



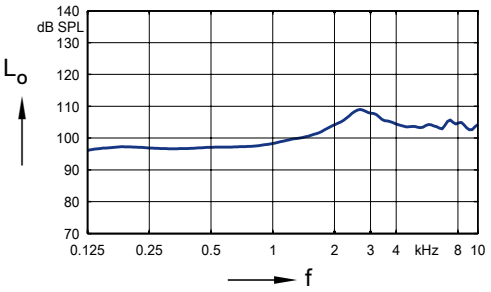
Frequency response (L_I = 60 dB)

Ear simulator



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

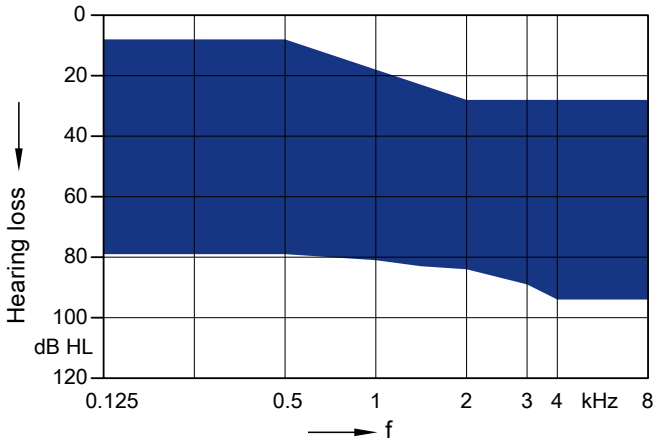
Full-on gain (L_I = 50 dB)



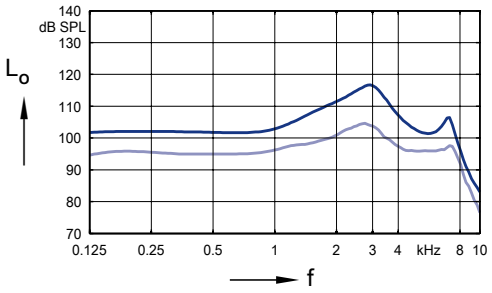
Basic acoustic response (L_I = 60 dB)

CIC 8 | Basic Data

118 / 55

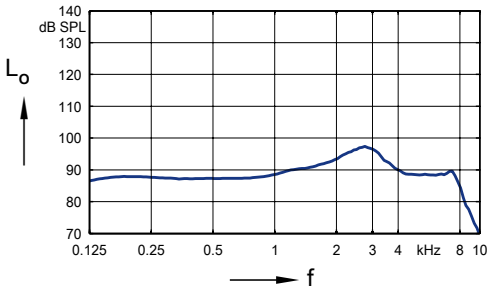


2 ccm coupler



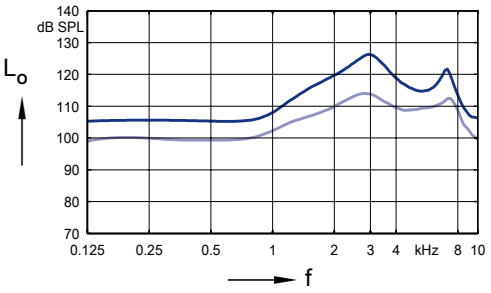
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



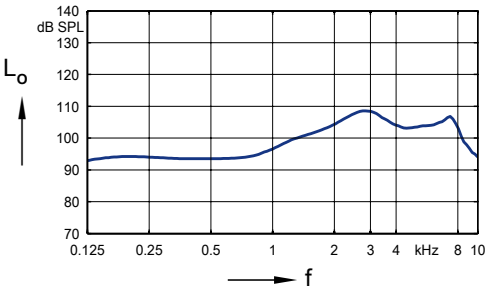
Frequency response (L_I = 60 dB)

Ear simulator



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

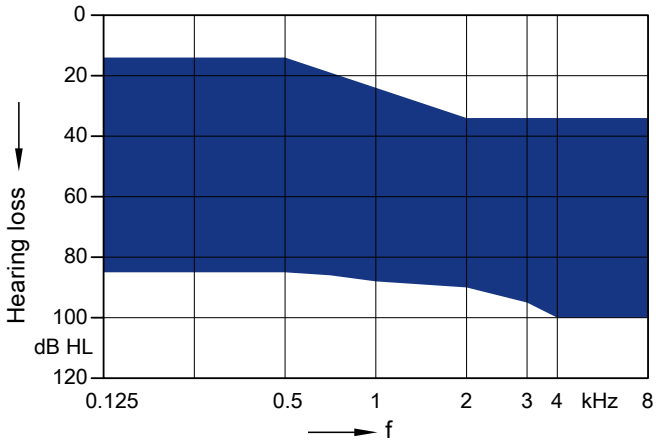
Full-on gain (L_I = 50 dB)



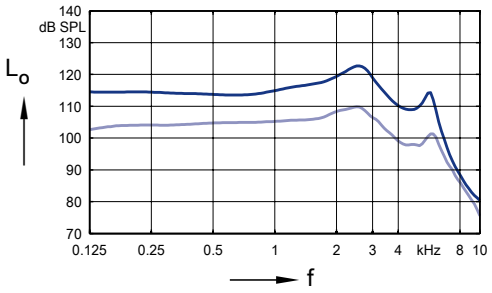
Basic acoustic response (L_I = 60 dB)

CIC 8 | Basic Data

124 / 60

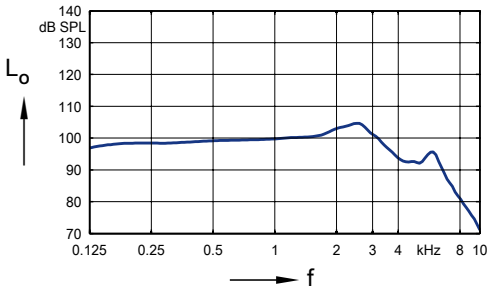


2 ccm coupler



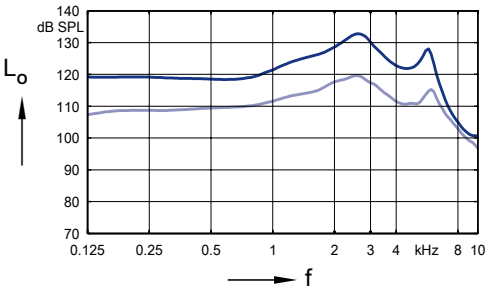
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



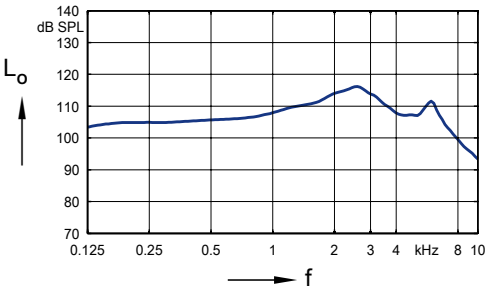
Frequency response (L_I = 60 dB)

Ear simulator



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

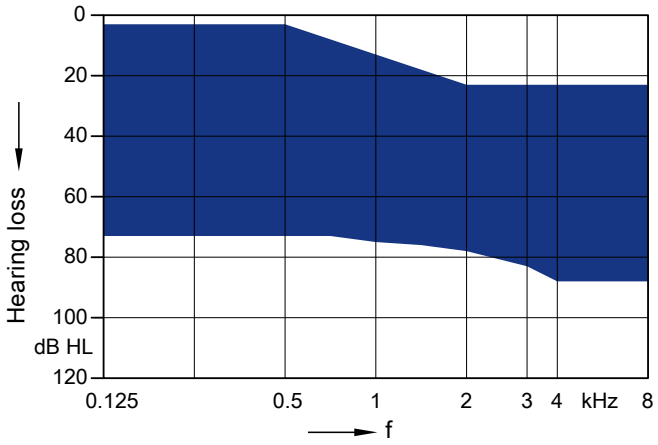
Full-on gain (L_I = 50 dB)



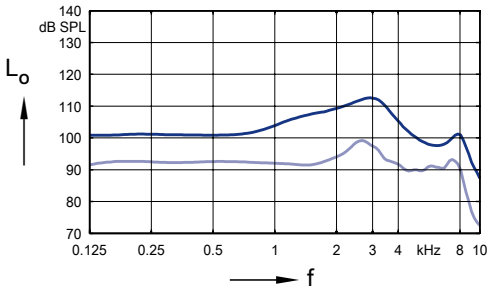
Basic acoustic response (L_I = 60 dB)

DIC 8 | Basic Data

113 / 50

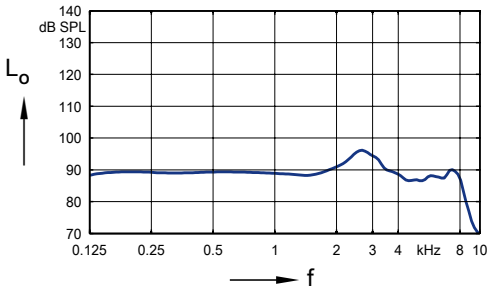


2 ccm coupler



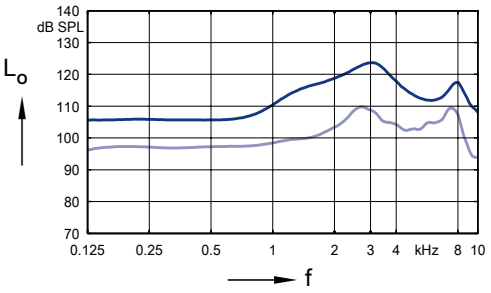
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



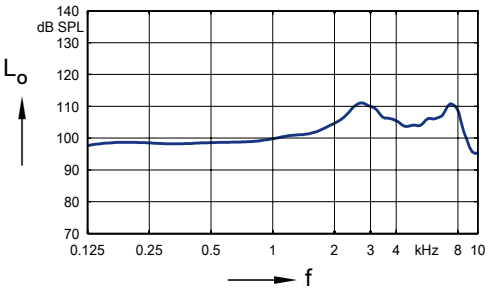
Frequency response (L_I = 60 dB)

Ear simulator



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

Full-on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

CIC 8 / DIC 8 | Further information

Abbreviations

The following abbreviations are used in this data sheet:

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 EN 60118-0:2015 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to 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.

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Subject to change
without prior notice

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.