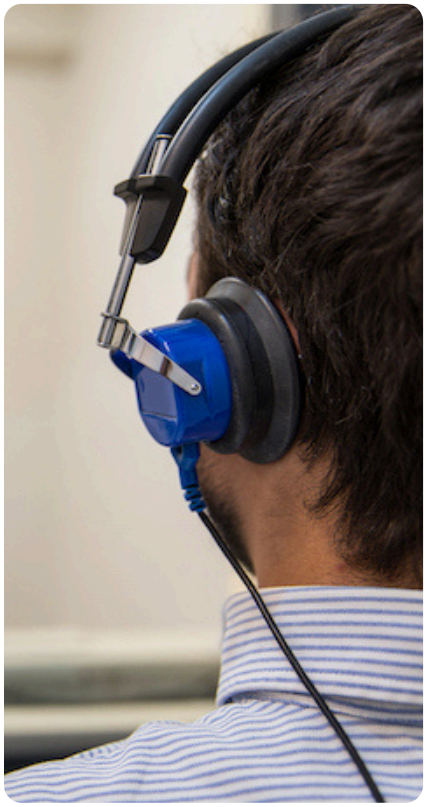
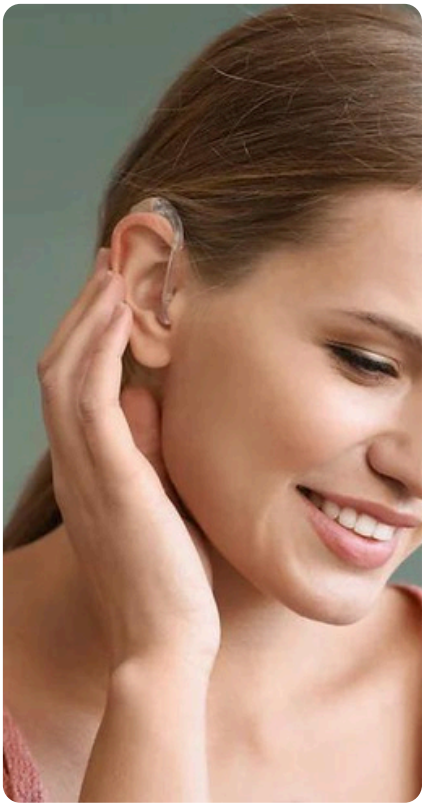
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DATA SHEET

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0332-5014111

Orion C&G RIC

Data Sheet

200 100 75 50



S-Receiver

- 45 dB / 108 dB SPL (2 ccm coupler)
- 56 dB / 119 dB SPL (Ear simulator)

M-Receiver

- 60 dB / 119 dB SPL (2 ccm coupler)
- 70 dB / 129 dB SPL (Ear simulator)

P-Receiver

- 70 dB / 124 dB SPL (2 ccm coupler)
- 80 dB / 134 dB SPL (Ear simulator)

HP-Receiver

- 75 dB / 130 dB SPL (2 ccm coupler)
- 82 dB / 138 dB SPL (Ear simulator)

Data sheet also applicable for Orion C&G RIC sDemo

Orion C&G RIC | Technical Data

Type		S-Receiver		M-Receiver	
		2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level					
OSPL 90 at 1.6 kHz		—	109 dB SPL	—	123 dB SPL
OSPL 90 (peak)		108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL
HFA OSPL 90		102 dB SPL	—	114 dB SPL	—
Full-on gain					
FOG at 1.6 kHz		—	44 dB	—	56 dB
FOG (peak)		45 dB	56 dB	60 dB	70 dB
HFA FOG		37 dB	—	51 dB	—
Reference test gain		25 dB	34 dB	37 dB	48 dB
Frequency, noise and directivity					
Frequency range	200, 100, 75, 50	100 – 8200 Hz	100 – 8300 Hz	100 – 8200 Hz	100 – 8300 Hz
Equivalent input noise		18 dB SPL	22 dB SPL	18 dB SPL	23 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz		1 / 1 / 1 / 1 %	1 / 1 / 2 / — %	1 / 1 / 1 / 1 %	1 / 3 / 1 / — %
Tinnitus noiser broadband	30	65 dB SPL	—	70 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		—	—	—	—
HFA MASL (1 mA/m)		—	—	—	—
HFA SPLITS (left/right)		—	—	—	—
RSETS (left/right)		—	—	—	—
HFA SPLIV		—	—	—	—
Battery					
Battery runtime (without streaming)		up to 35 h		up to 35 h	
Battery runtime (incl. streaming)		—		—	
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		—		—	

— not applicable

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

Orion C&G RIC | Technical Data

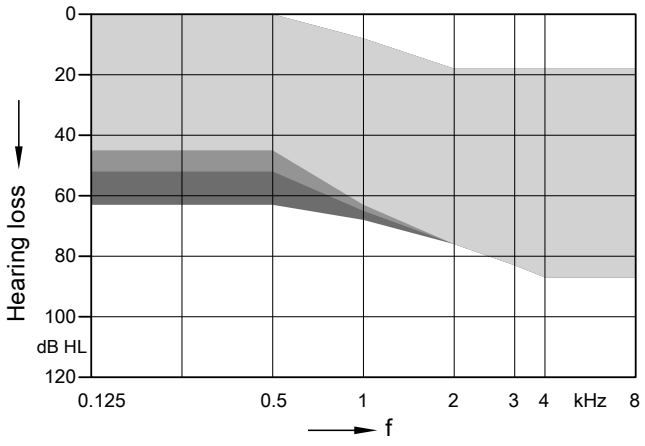
Type	P-Receiver		HP-Receiver	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
OSPL 90 at 1.6 kHz	—	128 dB SPL	—	136 dB SPL
OSPL 90 (peak)	124 dB SPL	134 dB SPL	130 dB SPL	138 dB SPL
HFA OSPL 90	120 dB SPL	—	125 dB SPL	—
Full-on gain				
FOG at 1.6 kHz	—	70 dB	—	82 dB
FOG (peak)	70 dB	80 dB	75 dB	82 dB
HFA FOG	63 dB	—	68 dB	—
Reference test gain	43 dB	53 dB	48 dB	61 dB
Frequency, noise and directivity				
Frequency range 200, 100, 75, 50	100 – 7800 Hz	100 – 8100 Hz	100 – 7700 Hz	170 – 5300 Hz
Equivalent input noise	16 dB SPL	19 dB SPL	18 dB SPL	12 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	1 / 2 / 1 / 1 %	3 / 3 / 2 / — %	1 / 1 / 1 / 1 %	1 / 2 / 1 / — %
Tinnitus noiser broadband 30	75 dB SPL	—	85 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	—	—	—	—
HFA MASL (1 mA/m)	—	—	—	—
HFA SPLITS (left/right)	—	—	—	—
RSETS (left/right)	—	—	—	—
HFA SPLIV	—	—	—	—
Battery				
Battery runtime (without streaming)	up to 35 h		up to 35 h	
Battery runtime (incl. streaming)	—		—	
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	—		—	

— not applicable

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

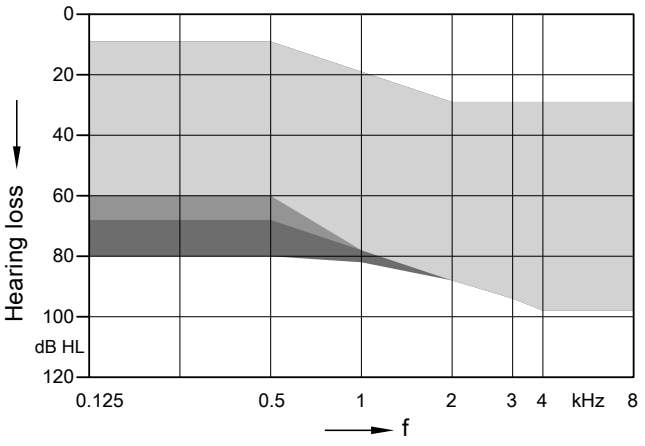
Orion C&G RIC | Fitting range

S-Receiver



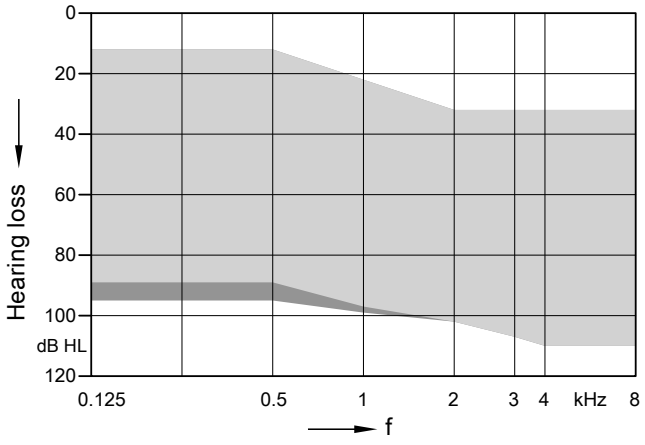
Open Click Domes
\+ Closed Click Domes
\+ + Click Mold (no vent)

M-Receiver



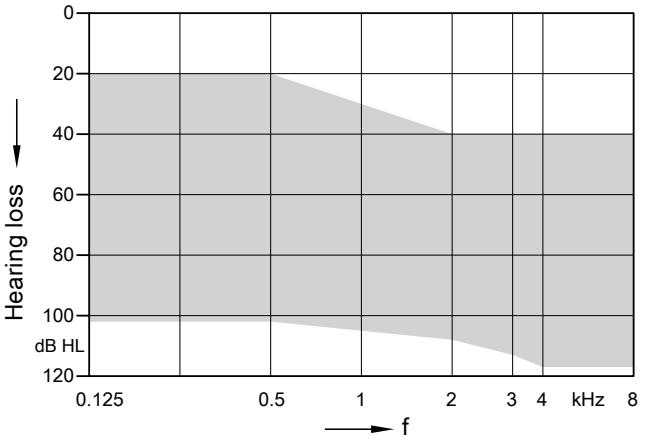
Open Click Domes
\+ Closed Click Domes
\+ + Click Mold (no vent)

P-Receiver



Double Click Domes
\+ Click Mold (no vent)

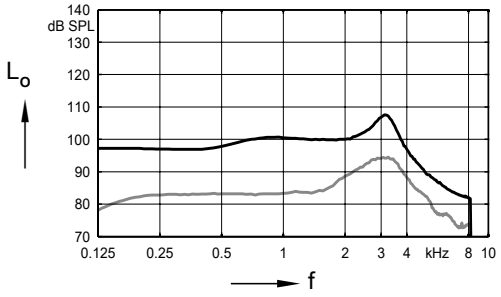
HP-Receiver



Custom Shell (no vent)

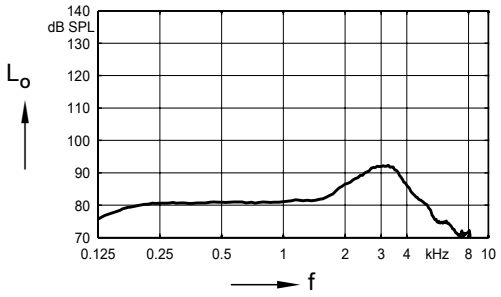
S-Receiver (Closed Click Domes) | Basic Data

2 ccm coupler



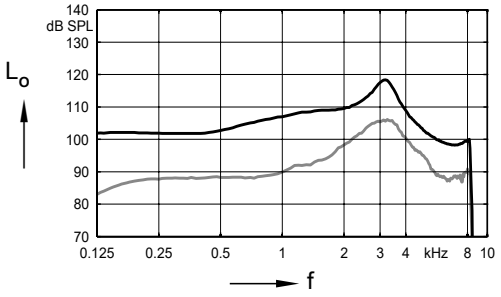
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



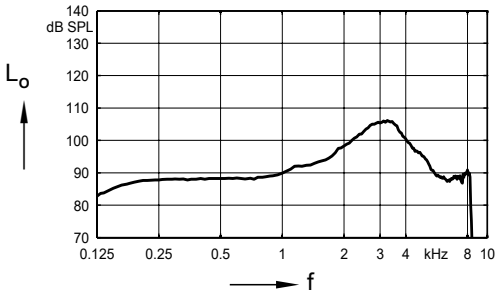
Frequency response (L_I = 60 dB)

Ear simulator



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

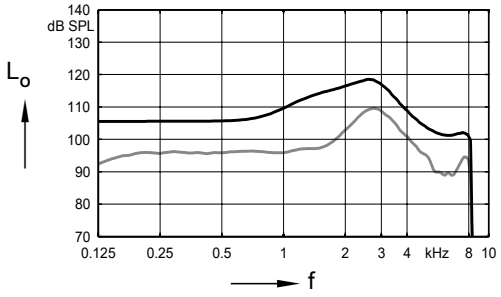
Full-on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

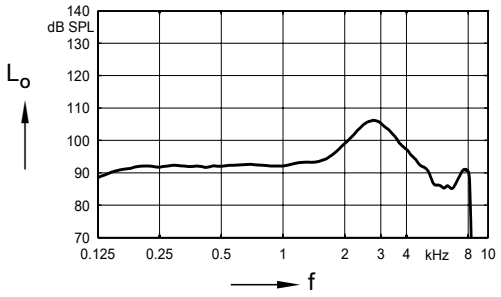
M-Receiver (Closed Click Domes) | Basic Data

2 ccm coupler



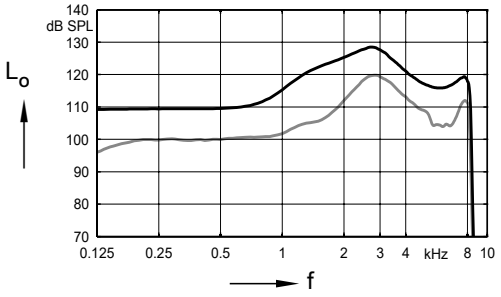
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



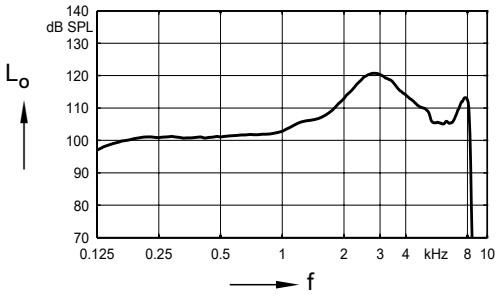
Frequency response (L_I = 60 dB)

Ear simulator



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

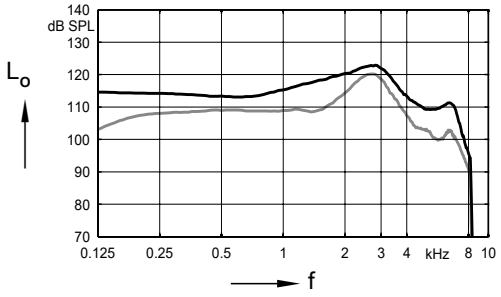
Full-on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

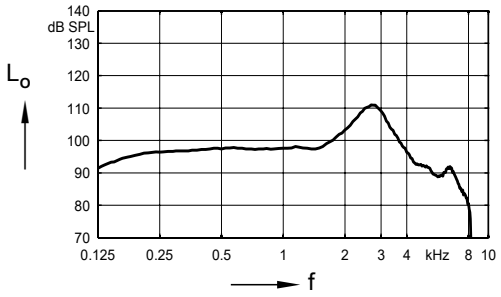
P-Receiver (Click Mold) | Basic Data

2 ccm coupler



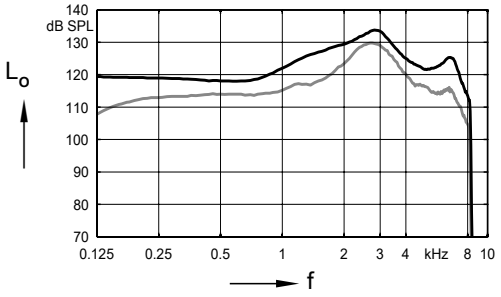
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



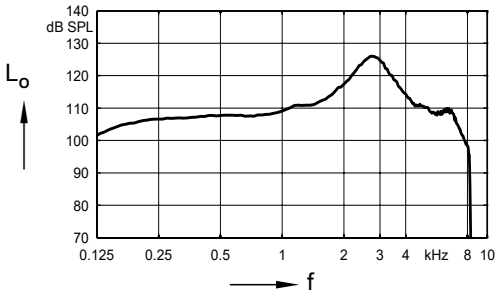
Frequency response (L_I = 60 dB)

Ear simulator



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

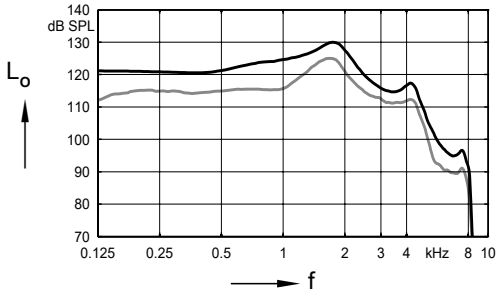
Full-on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

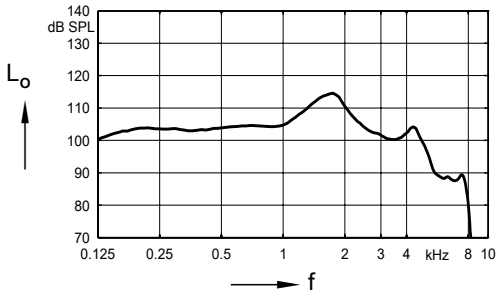
HP-Receiver (Custom Shell) | Basic Data

2 ccm coupler



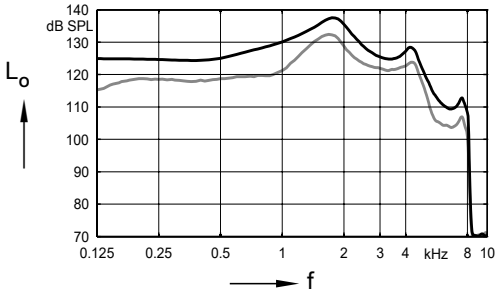
Max. Output sound pressure level (L_I = 90 dB)

Full-on gain (L_I = 50 dB)



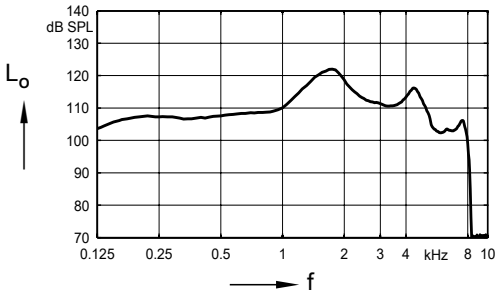
Frequency response (L_I = 60 dB)

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)

Orion C&G P T | 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 ANSI S3.22:2014 and EN 60118-0:2015 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1995 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.
- The following acoustic connections / ear pieces were used:
  - S-Receiver Unit and M-Receiver Unit: Closed Click Domes
  - P-Receiver Unit: Click Mold
  - HP-Receiver Unit: Custom Shell

Special note for instruments with built-in lithium-ion rechargeable battery

The runtime of all lithium-ion rechargeable batteries reduces over time. The estimates are based on fresh lithium-ion rechargeable battery capacity. Under normal operating conditions, the battery will retain up to 80 % of its initial capacity after 2 years of use. Please note that battery performance will vary depending on individual usage patterns and environmental conditions.

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