

ORION RIC Dijital programlanabilir işitme cihazı

ORION RIC S	ORION RIC M	ORION RIC P	ORION RIC HP
			
45 dB/108 dB SPL 16 kanal 32 bant (8 frekans bandı, 24 kompresyon bandı)	60 dB/119 dB SPL 16 kanal 32 bant (8 frekans bandı, 24 kompresyon bandı)	70 dB/124 dB SPL 16 kanal 32 bant (8 frekans bandı, 24 kompresyon bandı)	75 dB/130 dB SPL 16 kanal 32 bant (8 frekans bandı, 24 kompresyon bandı)
PC Yüksek frekansta maksimum çıkış	PC Yüksek frekansta maksimum çıkış	PC Yüksek frekansta maksimum çıkış	PC Yüksek frekansta maksimum çıkış
MPO Düşük frekansta maksimum çıkış	MPO Düşük frekansta maksimum çıkış	MPO Düşük frekansta maksimum çıkış	MPO Düşük frekansta maksimum çıkış
TC Tını kontrol	TC Tını kontrol	TC Tını kontrol	TC Tını kontrol
AGC Otomatik Kazanç Kontrol	AGC Otomatik Kazanç Kontrol	AGC Otomatik Kazanç Kontrol	AGC Otomatik Kazanç Kontrol
Receiver kanal içinde	Receiver kanal içinde	Receiver kanal içinde	Receiver kanal içinde
312 numara pil	312 numara pil	312 numara pil	312 numara pil
Çift mikrofon	Çift mikrofon	Çift mikrofon	Çift mikrofon
Frekans baskılama	Frekans baskılama	Frekans baskılama	Frekans baskılama
Feedback yönetimi	Feedback yönetimi	Feedback yönetimi	Feedback yönetimi
Gürültü azaltma	Gürültü azaltma	Gürültü azaltma	Gürültü azaltma
RüzgarKalkanı	RüzgarKalkanı	RüzgarKalkanı	RüzgarKalkanı
Tinnitus noiser	Tinnitus noiser	Tinnitus noiser	Tinnitus noiser
VC (manuel ses kontrol)	VC (manuel ses kontrol)	VC (manuel ses kontrol)	VC (manuel ses kontrol)
ConnexFit	ConnexFit	ConnexFit	ConnexFit
IP67 Sertifikası (toz geçirmez, suya dayanıklı)	IP67 Sertifikası (toz geçirmez, suya dayanıklı)	IP67 Sertifikası (toz geçirmez, suya dayanıklı)	IP67 Sertifikası (toz geçirmez, suya dayanıklı)

ORION RIC S	ORION RIC M	ORION RIC P	ORION RIC HP
			
45 dB/108 dB SPL 16 kanal 32 bant	60 dB/119 dB SPL 16 kanal 32 bant	70 dB/124 dB SPL 16 kanal 32 bant	75 dB/130 dB SPL 16 kanal 32 bant
Telecoil	Telecoil	Telecoil	Telecoil
Nano kaplama kabin	Nano kaplama kabin	Nano kaplama kabin	Nano kaplama kabin
e2e kablosuz 2.0	e2e kablosuz 2.0	e2e kablosuz 2.0	e2e kablosuz 2.0
ConnexxLink ile kablosuz programlama	ConnexxLink ile kablosuz programlama	ConnexxLink ile kablosuz programlama	ConnexxLink ile kablosuz programlama
Uyarı tonları	Uyarı tonları	Uyarı tonları	Uyarı tonları
4 program	4 program	4 program	4 program
Aksesuarlar			
Renk deęiřim seti	Renk deęiřim seti	Renk deęiřim seti	Renk deęiřim seti
ProPocket kumanda	ProPocket kumanda	ProPocket kumanda	ProPocket kumanda
ePen kumanda	ePen kumanda	ePen kumanda	ePen kumanda
easyPocket kumanda	easyPocket kumanda	easyPocket kumanda	easyPocket kumanda
ConnexxLink	ConnexxLink	ConnexxLink	ConnexxLink

Technical Data

Orion RIC



S-Receiver

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

M-Receiver

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

P-Receiver

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

HP-Receiver

- 82 dB / 137 dB SPL (ear simulator)
- 75 dB / 130 dB SPL (2 ccm coupler)

Key features



- Audiological performance
- Wireless
- Broad range of receivers

Data Sheet



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Orion RIC · Technical Data

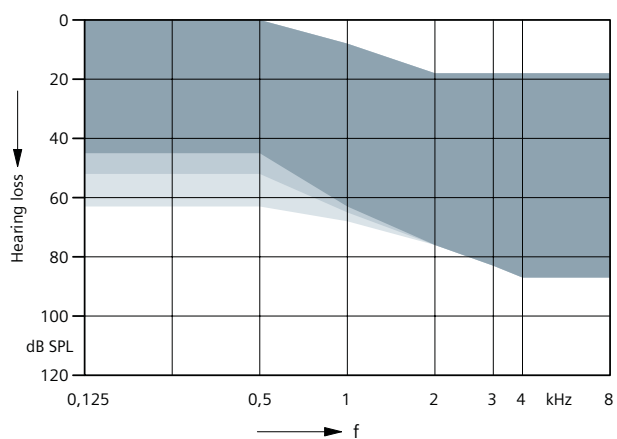
Type	S-Receiver		M-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	109 dB SPL	–	123 dB SPL
Peak	108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL
HFA-OSPL 90	102 dB SPL	–	114 dB SPL	–
Gain				
Full-on gain (FOG) at 1.6 kHz	–	43 dB	–	55 dB
Full-on gain (Peak)	45 dB	56 dB	60 dB	70 dB
HFA-FOG	37 dB	–	50 dB	–
Reference test gain	25 dB	34 dB	37 dB	48 dB
Frequency, noise and directivity				
Frequency range	<100 - 8200 Hz	100 - 8300 Hz	<100 - 8200 Hz	100 - 8300 Hz
Equivalent input noise	18 dB	22 dB	19 dB	23 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	1 / 1 / 1 %	1 / 1 / 2 %	1 / 1 / 2 %	1 / 2 / 1 %
AI-DI	3.8 dB		3.8 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	75 dB	–	87 dB
HFA MASL (1 mA/m)	68 dB	–	81 dB	–
HFA SPLITS (left/right)	85 / 83 dB	–	97 / 95 dB	–
RSETS (left/right)	0 / -2 dB	–	0 / -2 dB	–
AGC-O (fully activated)				
Attack / release time	3 / 90 ms	–	3 / 90 ms	–
Battery				
Battery voltage	1.3 V	1.3 V	1.3 V	1.3 V
Battery current drain	0.8 mA	0.8 mA	1.0 mA	1.0 mA
Battery life (cell zinc air)	~150 h	~150 h	~120 h	~120 h
IRIL IEC 118-13:2004 (bystander)				
800-960 MHz	< -5 dB		< -5 dB	
1400-2000 MHz	< -24 dB		< -24 dB	
ANSI C63.19	M4 / T4		M4 / T4	

Orion RIC · Technical Data

Type	P-Receiver		HP-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	128 dB SPL	–	137 dB SPL
Peak	124 dB SPL	134 dB SPL	130 dB SPL	137 dB SPL
HFA-OSPL 90	120 dB SPL	–	124 dB SPL	–
Gain				
Full-on gain (FOG) at 1.6 kHz	–	70 dB	–	82 dB
Full-on gain (Peak)	70 dB	80 dB	75 dB	82 dB
HFA-FOG	63 dB	–	68 dB	–
Reference test gain	43 dB	53 dB	47 dB	62 dB
Frequency, noise and directivity				
Frequency range	<100 - 7800 Hz	100 - 8300 Hz	<100 - 7500 Hz	250 - 5200 Hz
Equivalent input noise	18 dB	21 dB	18 dB	12 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	3 / 3 / 2 %	1 / 2 / 1 %	1 / 1 / 1 %
AI-DI	3.8 dB		3.8 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	102 dB	–	115 dB
HFA MASL (1 mA/m)	94 dB	–	99 dB	–
HFA SPLITS (left/right)	103 / 101 dB	–	107 / 105 dB	–
RSETS (left/right)	0 / -2 dB	–	0 / -2 dB	–
AGC-O (fully activated)				
Attack / release time	3 / 90 ms	–	3 / 90 ms	–
Battery				
Battery voltage	1.3 V	1.3 V	1.3 V	1.3 V
Battery current drain	1.0 mA	1.0 mA	1.1 mA	1.1 mA
Battery life (cell zinc air)	~120 h	~120 h	~110 h	~110 h
IRIL IEC 118-13:2004 (bystander)				
800-960 MHz	< -5 dB		< -5 dB	
1400-2000 MHz	< -24 dB		< -24 dB	
ANSI C63.19	M4 / T4		M4 / T4	

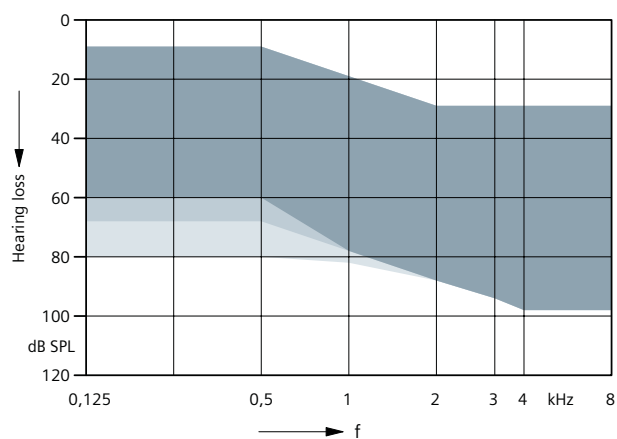
Fitting range

S-Receiver



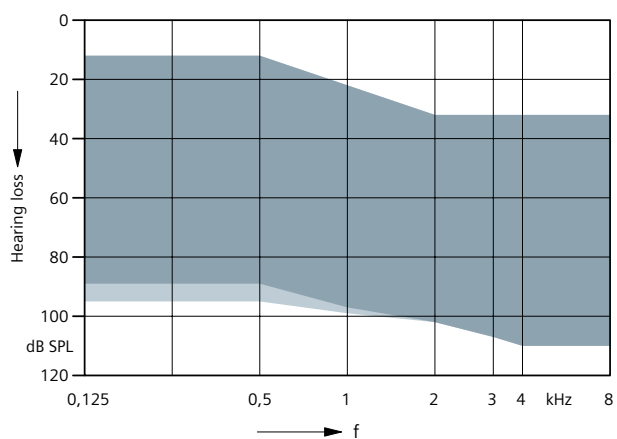
- Open domes
- Closed domes
- Receiver mold (no vent)

M-Receiver



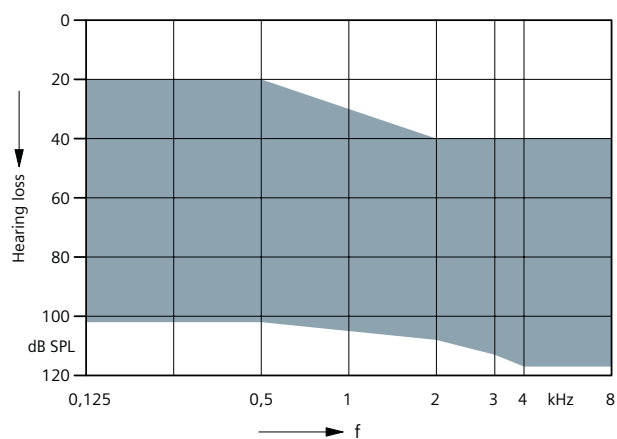
- Open domes
- Closed domes
- Receiver mold (no vent)

P-Receiver



- Double domes
- Custom shell (no vent)

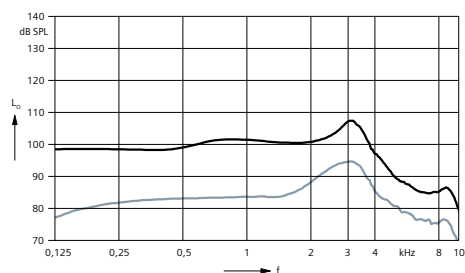
HP-Receiver



- Custom shell (no vent)

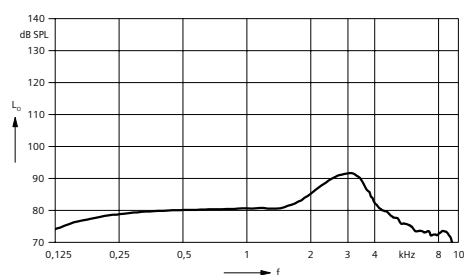
S-Receiver (Closed Dome) · Basic Data

2 ccm coupler



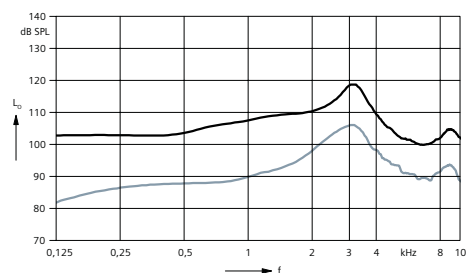
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



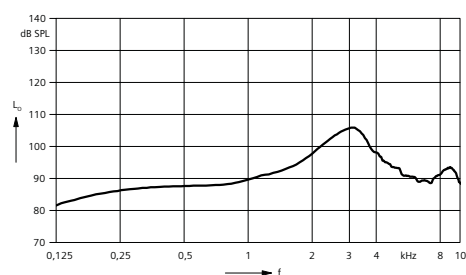
Frequency response
($L_1 = 60$ dB)

Ear simulator



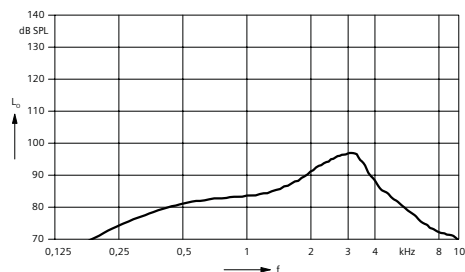
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

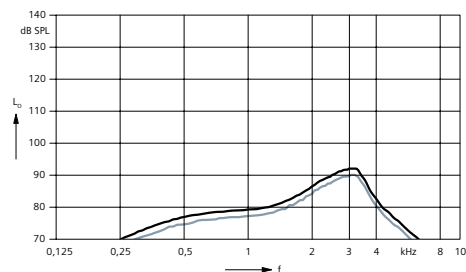


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



Inductive response
($H = 10$ mA/m)

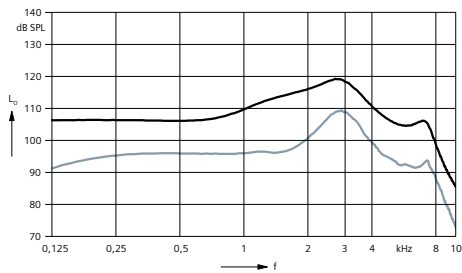


SPLITS curve left
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

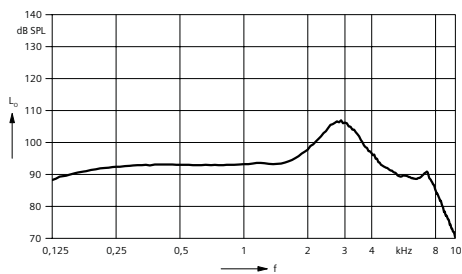
M-Receiver (Closed Dome) · Basic Data

2 ccm coupler



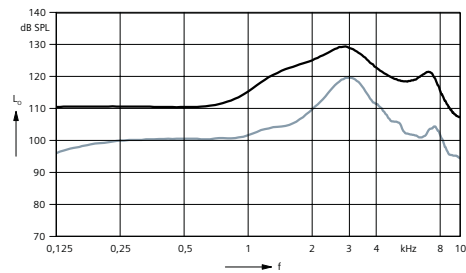
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



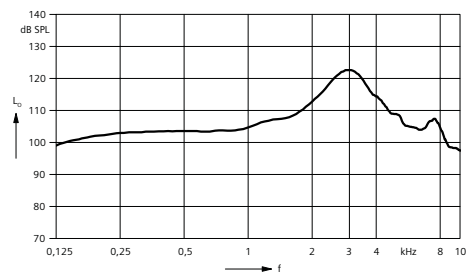
Frequency response
($L_1 = 60$ dB)

Ear simulator



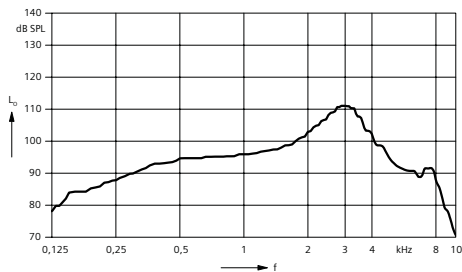
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

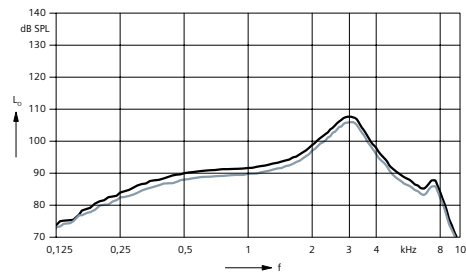


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



Inductive response
($H = 10$ mA/m)

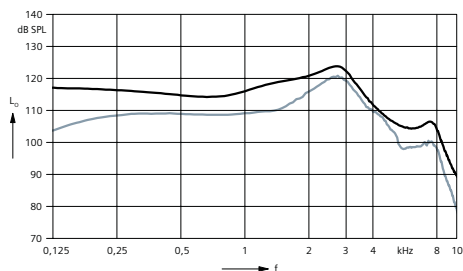


SPLITS curve left
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

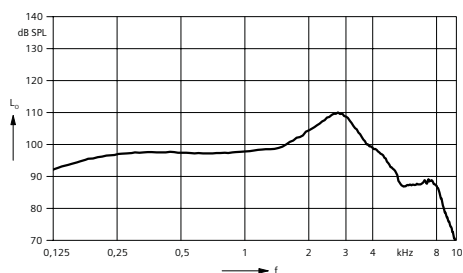
P-Receiver (Custom Shell) · Basic Data

2 ccm coupler



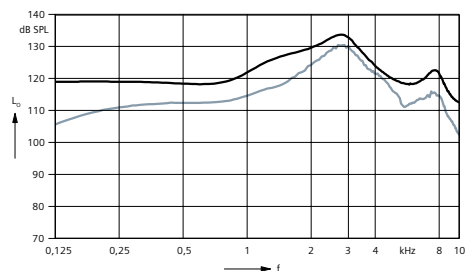
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



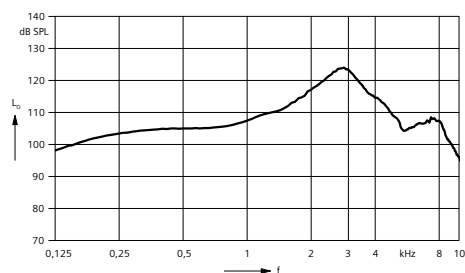
Frequency response
($L_1 = 60$ dB)

Ear simulator



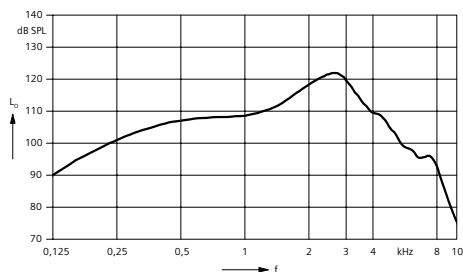
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

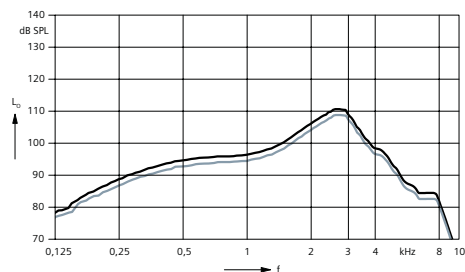


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



Inductive response
($H = 10$ mA/m)

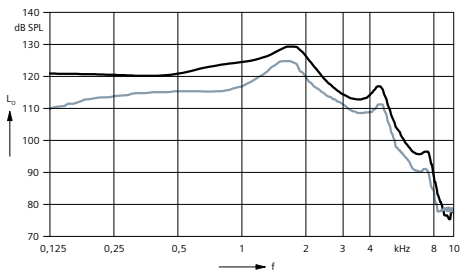


SPLITS curve left
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

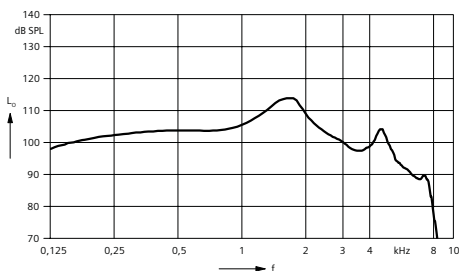
HP-Receiver (Custom Shell) · Basic Data

2 ccm coupler



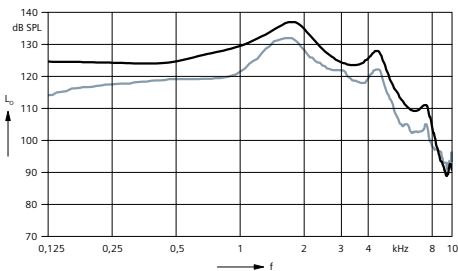
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



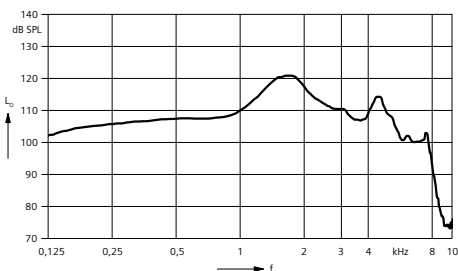
Frequency response
($L_1 = 60$ dB)

Ear simulator



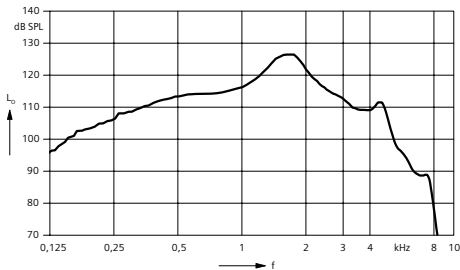
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

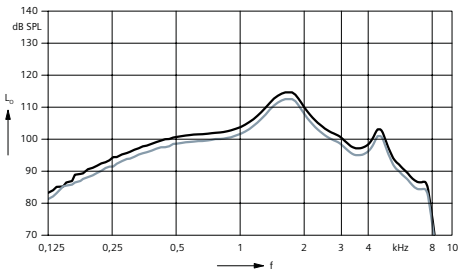


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

Features and Accessories

Audiological features	Orion RIC
Better hearing	
Automatic directional microphone	●
Directional speech enhancement	—
High res. SpeechFocus / automatic	— / —
Frequency compression	●
Sound comfort	
Feedback cancellation	●
Speech and noise management (steps)	3
SoundSmoothing™ (steps)	—
eWindScreen™ (steps)	on / off
SoundBrilliance™ (steps)	—
Tinnitus noiser (channels)	4
Fitting/Individuality	
Sound equalizer (classes)	—
Learning (classes)	—
Data logging	●
ConnexFit™	●
Acclimatization manager	—
Basic features	
Number of channels / handles	16 / 8
Extended bandwidth	—
Ingress Protection Rating	IP67
T-coil	●
AutoPhone™	—
Charging contacts	—
Battery size	312
Battery door on / off function	●
Battery door lock	—
Nanocoated housing	●
e2e wireless™ 2.0	●
Audio streaming	—
User control coupling via e2e	●
Wireless programming via ConnexxLink™	●

Features and Accessories

User control	Orion RIC
	Push button rocker switch flat cover
Volume change	○
Program change	○
Alert tones	●
Number of programs	4

Accessories	
Color conversion kits	●
eCharger	—
Tek™	—
miniTek™	—
ProPocket™	●
ePen™	●
easyPocket™	●
ConnexxLink™	●
Programming pill	●

● available ○ optional — not available

This image shows a full page of blank, lined paper. It features approximately 20 horizontal blue lines spaced evenly across the page, typical of notebook paper. The lines are thin and light blue, set against a plain white background. There is no handwriting or other markings on the page.

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
AGC-O	Automatic Gain Control - Output controlled
IRIL	Input Related Interference Level

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range).
- ▶ Effect of MPO was performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ The following ear pieces were used:
 - S-Receiver Unit and M-Receiver Unit: closed dome
 - P-Receiver Unit and HP-Receiver Unit: custom shell

WARNING

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, small children and 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.

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.

Find the current issue of this document under: <http://factsandfigures.hearing-siemens.com>