

sound SHD

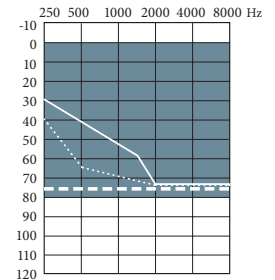
S13 Receiver-in-Canal (RIC) Hearing System Series



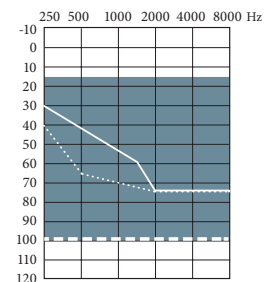
S13

Functionalities	9	7	5	3
Detection				
SurroundSupervisor SHD	•	•	•	•
Localization and Focus				
SphereSound SHD Dynamic	•			
SpeechBeam SHD-3	•			
SphereSound SHD Personalized	•	•		
SpeechBeam SHD-2		•		
SphereSound SHD Static	•	•	•	
SpeechBeam SHD-1			•	
Automatic Program				
Music	•	•		
Noise	•	•	•	
Conversations in a small group	•	•	•	
Conversations in a crowd	•	•	•	
Conversations in noise	•	•	•	•
Conversations in quiet	•	•	•	•
Quiet	•	•	•	•
AutoSurround SHD	7	7	6	3
Optimization and Comfort				
SurroundOptimizer SHD	•	•	•	•
AcclimatizationManager	•	•	•	•
ConversationLift+	•	•	•	Speech Lift
NoiseReduction	•	•	•	•
FeedbackManager	•	•	•	•
Sound Impulse Manager SHD	•	•	•	•
Active Wind Block	•	•	•	•
SoundRestore	•	•	•	•
DataLogging	•	•	•	•
Tinnitus Manager	•	•	•	•
PhoneConnect	•	•	•	•
BiLink	•	•	•	•
BiPhone	•	•	•	•
Bluetooth (accessory needed)	•	•	•	•
Channels and Programs				
Channels (G/AGC)	20	16	12	8
No. of programs (AutoSurround SHD/Manual/Wireless)	7/3/3	7/3/3	6/3/3	3/3/3
In all technology levels				
Telecoil, Audio input, RCV2, uStream, uDirect3, uTV3, uMic2				
Receiver type	Standard (xS)	Power (xP)	Super Power Plus (xSP plus)	
Output / gain	111 / 47	124 / 57	127 / 66	
Open dome	•	•		
Closed dome	•	•		
Power dome	•	•		
Sleeve mold	•	•		
cShell (hard and soft options)	•	•	•	

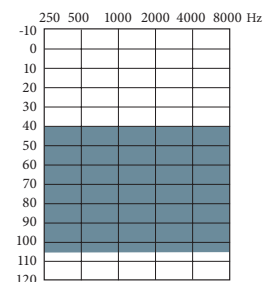
Fitting guides



Standard Receiver (xS)



Power Receiver (xP)



Super Power Plus Receiver (xSP plus)

- Open dome
- Closed dome
- — Power dome or sleeve mold

sound SHD S13 is rated IP 68



0124

sound SHD

S13 Receiver-in-Canal (RIC) Hearing System Series

Standard Receiver (xS) Power Receiver (xP) Super Power Plus Receiver (xSP plus)

ANSI 3.22 2014/IEC 60118-7 2005 2cc coupler technical data

	Reference test frequency - IEC 60118-7 (kHz)	1.6	1.6	1.6
	OSPL90			
	Maximum (dB SPL)	111	124	127
	HFA - OSPL90 (dB SPL)	106	119	122
	at RTF (dB SPL)	105	121	127
	Full on gain (input 50 dB SPL)			
	Maximum (dB)	47	57	66
	HFA - FOG (dB)	40	50	59
	at RTF (dB)	40	52	64
	Reference test setting (RTS)			
	Frequency range (Hz)	<100-8500	<100-7300	<100-6000
	Reference test gain (dB)	29	42	45
	Current drain at RTS (mA)	1.15	1.25	1.3
	Typical battery life (h)	270	250	240
	Equivalent input noise at RTS (dB SPL)	19	18	19
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.0/1.0/1.0	1.5/1.0/0.5	1.0/1.5/1.0
	Induction coil sensitivity (31.6 mA/m)			
	HFA SPLITS/STS-RSETS (dB SPL/dB)	89/0	102/0	105/0
	Standard: mic at 70 dB SPL vs induction coil at 100 mA/m	--- Mic	--- Induction Coil	

Electromagnetic compatibility

EMC immunity by ANSI c63.19-2011 EMC, omni/telecoil M4/T4 M4/T4 M4/T4

IEC 60118-0 OES coupler technical data

	Reference test frequency - IEC 60118-0 (kHz)	1.6	1.6	1.6
	OSPL90			
	Maximum (dB SPL)	122	133	138
	at RTF (dB SPL)	114	130	136
	Full on gain (input 50 dB SPL)			
	Maximum (dB)	58	67	74
	at RTF (dB)	48	62	71
	Basic frequency response			
	Frequency range (DIN 45605) (Hz)	< 100-9500	< 100-6700	< 100-5500
	Reference test gain (dB)	39	55	61
	Current drain at RTG (mA)	1.15	1.2	1.3
	Typical battery life (h)	270	260	240
	Equivalent input noise at RTG (dB SPL)	19	19	19
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.0/1.5/1.5	1.5/1.5/1.0	1.5/1.5/1.0
	Induction coil sensitivity			
	at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	99	115	121

Electromagnetic compatibility

EMC immunity by IEC 60118-13, 2011 field strength 90/50/35 V/m, omni. IRIL low/medium/high band (dB SPL) 28/32/25 25/23/37 28/32/36

Legend

- xS receiver
- xP receiver
- xSP plus receiver

Test conditions

Battery size: 13; Source: voltage 1.3 V
 The measurements obtained with a closed configuration using an HA-1 coupler (ANSI-3.7-1995) or occluded ear simulator (EN 60711, coupling arrangement according to fig. 4 in the test standard). The hearing system set to HANSATON scout test settings. LLE (Low Level Expansion) is applied at an approximate level of 35 dB SPL. Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals. In the case of such a condition, we recommend use of a customized earmold. Sound pressure level of these hearing aids exceeds 132 dB SPL.
 We reserve the right to change specification data without notice as improvements are introduced.

