

Technical data sheet

BTE

85



		Oticon Ruby 1	Oticon Ruby 2
Speech Understanding	Noise Reduction LX	•	•
	Multiband Adaptive Directionality LX	•	•
	Single Compression LX	•	•
	Speech Rescue™ LX	•	-
Sound Quality	Fitting Bandwidth*	8 KHz	8 KHz
	Processing Channels	48	48
	Bass Boost (streaming)	•	•
Listening Comfort	Transient Noise Management	On/Off	-
	SuperShield	•	-
	Feedback shield LX	•	•
	Wind Noise Management	•	•
Optimizing Fitting	Fitting Bands	10	8
	Adaptation Management	•	•
	Oticon Firmware Updater	•	•
	Multiple Directionality options	•	•
	Fitting Formulas	NAL-NL1+2, DSL v5.0	NAL-NL1+2, DSL v5.0
Connecting to the World	Stereo streaming (2.4 GHz)	•	•
	Oticon ON App	•	•
	ConnectClip	•	•
	Remote Control 3.0	•	•
	TV Adapter 3.0	•	•
	Phone Adapter 2.0	•	•
	EduMic	•	•
	DAI/FM	•	•
	Tinnitus SoundSupport™	•	•
	Oticon CROS compatible	•	•

* Bandwidth accessible for gain adjustments during fitting

Operating conditions

Temperature: +1°C to +40°C
Relative humidity: 5% to 93%, non-condensing

Storage and transportation conditions

Temperature and humidity should not exceed the below limits for extended periods during transportation and storage.
Temperature: -25°C to +60°C
Relative humidity: 5% to 93%, non-condensing

Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

BTE offers a compact design with a double push button and an 85 receiver, using the 8 KHz bandwidth for excellent sound quality.

SuperShield rapidly and intelligently prevents feedback before it occurs.

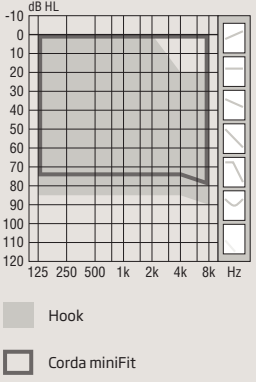
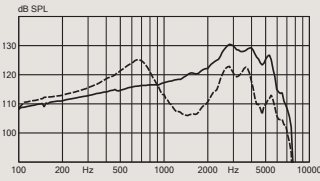
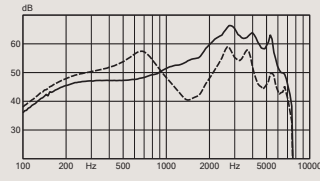
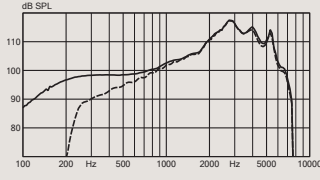
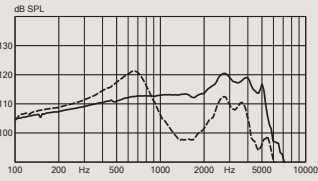
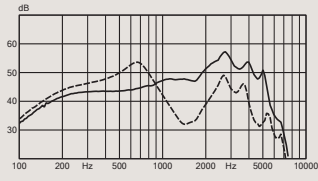
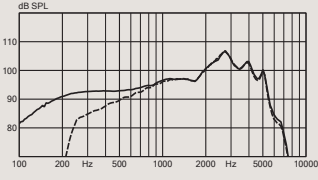
TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

The powerful Velox S™ platform has programmable firmware architecture, supporting future performance updates.



IP68

For information on compatibility, please visit www.oticon.com/solutions/accessories

			Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 85			OSPL90  Full-on Gain  Frequency Response 	OSPL90  Full-on Gain  Frequency Response 
OSPL90	Peak		130 (125 ¹) dB SPL	120 (121 ¹) dB SPL
	1600 Hz		121 (107 ¹) dB SPL	113 (98 ¹) dB SPL
	HFA-OSPL90		122 (113 ¹) dB SPL	115 (105 ¹) dB SPL
Full-on gain ²	Peak		66 (59 ¹) dB	57 (54 ¹) dB
	1600 Hz		55 (41 ¹) dB	47 (33 ¹) dB
	HFA-FOG		57 (49 ¹) dB	50 (41 ¹) dB
Reference test gain			46 dB	39 dB
Frequency range			105-7500	100-7000
Telecoil output (1600 Hz)	1 mA/m field		85 dB SPL	-
	10 mA/m field		105 dB SPL	-
	SPLITS L/R		-	97/97 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz		< 2 %	< 2 %
	800 Hz		2 %	< 2 %
	1600 Hz		< 2 %	< 2 %
Equivalent input noise level	Omni		21 dB SPL	18 dB SPL
	Dir		31 dB SPL	28 dB SPL
Battery consumption ³	Typical		1.4 mA	1.7 mA
	Quiescent		1.3 mA	1.7 mA
Battery life, artificial measurement, hours ⁴			230	180
Expected battery life, hours (battery size 13 - IEC PR48) ⁵			105-115	
IRIL (IEC 60118-13:2011)			700/1400/2000 MHz: 18/13/40 dB SPL	

1) For instruments fitted with Corda miniFit.

2) Measured with the gain control of the hearing aid set to its 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 from e.g. IEC 60118-0+A1:1994 but without influence of feedback.

3) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of a minimum of 3 minutes.

4) Based on the standardized battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.

5) 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).