

# Technical Data

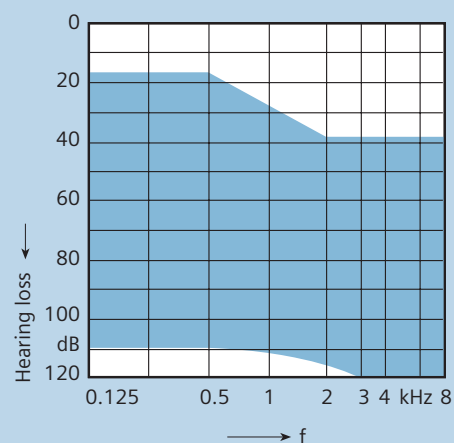
## CIELO™ 2 SP BTE

### Premium Features

- Programmable BTE instrument with optional ePocket™
- For severe to profound hearing losses
- Data logging
- High performance, automatic and adaptive directional microphone
- Automatic and adaptive feedback cancellation
- Automatic situation detection including music detection
- Adaptive noise reduction and speech enhancement in 6 channels
- Wind noise reduction
- 4 individual hearing programs for microphone, audio shoe and/or telecoil

### Additional Features

- AutoPhone™ switchless telecoil
- Audio Input
- Battery compartment with lock and ON/OFF switch
- Volume control
- Push button for program selection with alert tones for program change
- Battery type 675
- Alert tones for low battery
- Nanocoated housing



### Options & Accessories

- Available in the following colors: beige, brown, grey, granite, silver, black, pearl white, light pink, light blue, transparent and translucent fun colors: purple, green, blue, orange, and pink
- Small earhook
- Audio shoe (transparent)
- Materials and accessories to support pediatric fittings

### Technical Data

[www.usa.siemens.com/hearing](http://www.usa.siemens.com/hearing)

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# CIELO 2 SP BTE Technical Data

		2cc coupler Standard ANSI S3.22-2003
<b>Output Sound Pressure Level</b>		
	Peak	138 dB
	HF-Average OSPL 90	132 dB
<b>Gain (Input 50 dB)</b>		
	Peak	80 dB
	HF-Average	73 dB
	Reference test gain	55 dB
<b>Frequency Range</b>		
	Low frequency limit	<100 Hz
	High frequency limit	5000 Hz
<b>Total Harmonic Distortion</b>		
	500 Hz	5%
	800 Hz	2%
	1600 Hz	1%
<b>Equivalent Input Noise</b>		26 dB
<b>Induction Coil Sensitivity</b>		
	HF-Average SPLITS* (Left/Right)	106/113 dB
	STS** (Left/Right)	-9/-2 dB
<b>AGC-O (CK = -21 dB)</b>		
	Attack time	8 ms
	Release time	100 ms
<b>Battery</b>		
	Type	675 cell zinc-air
	Current Drain	2 mA
	Typical Life	~240 h

Technical information for wireless function:

Operating frequencies:  $f_{\text{low}} = 115 \text{ kHz}$ ,  $f_{\text{high}} = 120 \text{ kHz}$ ;

Rated H-field strength (maximum):  $-11,5 \mu\text{A/m}$  at 3 meters.

\*SPLITS = Coupler SPL for an Inductive Telephone Simulator

\*\*STS = Simulated Telephone Sensitivity

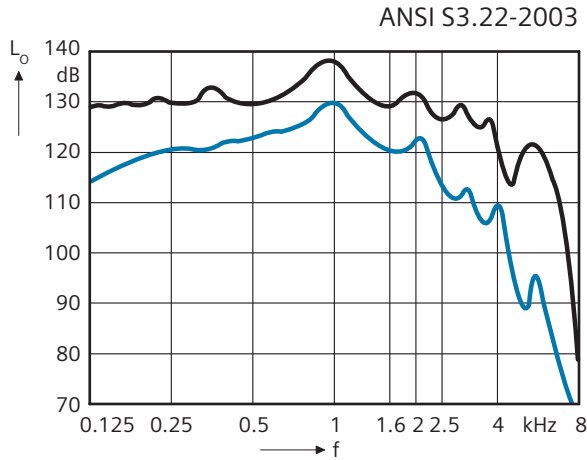
Measure instructions: Instrument in linear setting.

# CIELO 2 SP BTE Basic Data

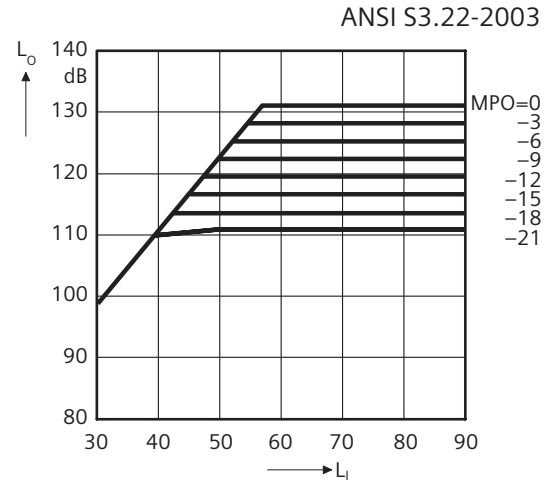
## 2 cc coupler

Output Sound Pressure Level ( $L_i = 90$  dB)

Maximum Gain ( $L_i = 50$  dB)

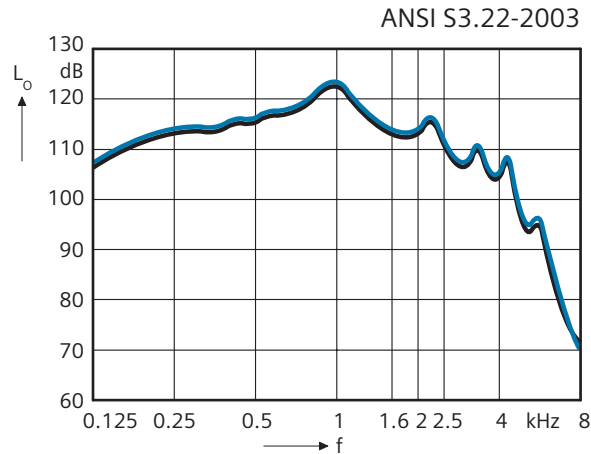


Effect of MPO (FOG,  $f = 2$  kHz)



Frequency Response ( $L_i = 60$  dB)

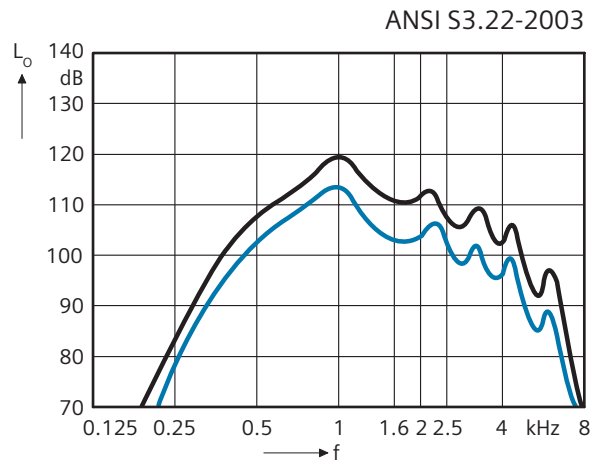
Basic Acoustic Response ( $L_i = 60$  dB)



## Inductive Response

Inductive Response Right ( $H = 31.6$  mA/m)

Inductive Response Left ( $H = 31.6$  mA/m)

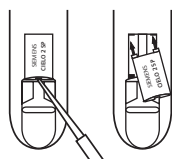


# CIELO 2 SP BTE Fitting Information



## Programming Socket

The programming socket lies under a flap above the program button. Use a suitable tool to open the flap. After the programming procedure is complete, close the flap using your fingernail.



## Changing the Typeplates

To mark the left and right side of the CIELO 2 SP instruments when fitting binaurally, exchange the housing colored typeplates on the inner curve of the instruments for blue (left) and red (right). Use a suitable tool to lift and remove the typeplate. Lock the two pins on the new typeplate into the openings and press gently into position with your finger.



## Audio Shoe

To attach an audio shoe to CIELO 2 SP, open the battery compartment to the first stop. Open the flap under the programming socket and hook the audio shoe in from the front. Press the audio shoe into place so that it attaches to the back and the curve of the audio shoe presses against the bottom of the hearing system.

To remove the audio shoe, pull it toward the front. Then unhook the audio shoe and close the flap.



## Earhook, small

For optimal fitting to smaller ears, a small earhook is an available option.



## Pediatric Accessories

A Use and Care kit containing items to care for hearing instruments (blower, stethoscope, drying kit, and more) and a teddy bear wearing hearing instruments packed into a colorful lunchbox; storybooks for children about hearing loss, and other materials are available to support pediatric fittings. For more information or to order pediatric materials, contact your Siemens Sales Representative.

## **Siemens Hearing Instruments, Inc. locations**

### **United States Headquarters/Northeast Manufacturing Facility:**

10 Constitution Avenue, P.O. Box 1397, Piscataway, NJ 08855-1397 • (732) 562-6600 or (800) 766-4500

**Midwest Sales Facility:** (847) 808-1200 or (800) 333-9083

**West Manufacturing Facility:** (562) 404-4531 or (800) 998-9787

**Technical Support for Software and Systems:** (888) 231-1333

[www.usa.siemens.com/hearing](http://www.usa.siemens.com/hearing)

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