Technical Data

Phonak Sky Q-M13 (Q90/Q70/Q50) (SlimTube HE)

WaterResistant micro BTE, battery size 13, for mild to severe hearing loss, all audiometric configurations (for product details and available options, please see Product Information or visit www.phonakpro.com).

Unless otherwise specified, all data obtained are measured in a closed configuration with a straight measurement SlimTube HE (Art. No. 004-0425) and a coupling disc (Art. No. 002-0412) onto a HA-1 coupler (ANSI-S3.7-1995) or an occluded-ear simulator (EN 60711, coupling arrangement according to fig. 4 in the test standard), and in the Phonak Target measurement settings.

Ear simulator data
EN / IEC 60118 and IEC 60711

Output sound pressure level

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>100</th>
<th>500</th>
<th>1000</th>
<th>4000</th>
<th>7000</th>
<th>8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>60</td>
<td>80</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>1000</td>
<td>60</td>
<td>80</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>4000</td>
<td>60</td>
<td>80</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>8000</td>
<td>60</td>
<td>80</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
</tbody>
</table>

Acoustic gain

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>500</th>
<th>800</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>60</td>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>800</td>
<td>60</td>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>1000</td>
<td>60</td>
<td>80</td>
<td>90</td>
</tr>
</tbody>
</table>

Total harmonic distortion

- 500 Hz: 2%
- 800 Hz: 1%
- 1000 Hz: 1.5%

Battery current

- Quiescent: 1.1 mA
- Working: 1.2 mA

Equivalent input noise level
19 dB SPL

Induction coil sensitivity

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>HFA (50 dB SPL)</th>
<th>RTG (Input 1 mA/m)</th>
<th>Reference test gain (Input 31.6 mA/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>60</td>
<td>55</td>
<td>Reference test gain (Input 31.6 mA/m)</td>
</tr>
<tr>
<td>10000</td>
<td>60</td>
<td>55</td>
<td>Reference test gain (Input 31.6 mA/m)</td>
</tr>
</tbody>
</table>

Dynamic data

<table>
<thead>
<tr>
<th>Compression</th>
<th>Attack time</th>
<th>Recovery time</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ms</td>
<td>50 ms</td>
<td></td>
</tr>
</tbody>
</table>

Note: Using pure tone measurements with a digital hearing instrument can result in a wavy frequency response. This is an artifact resulting from the use of a narrowband input signal and does not affect the actual performance with naturally occurring broadband input signals.
Technical Data

Phonak Sky Q-M13 (Q90/Q70/Q50) (HE10 680)

Warning to hearing care professionals:
This hearing instrument has an output sound pressure level that can exceed 132 dB SPL. Special care should be taken when fitting this instrument as there is a risk of impairing the residual hearing of the user.

Unless otherwise specified, all data obtained are measured with the hook type HE10 680 and Phonak Target measurement settings.

Ear simulator data
EN / IEC 60118 and IEC 60711

Output sound pressure level

- Frequency range: <100 Hz - 7000 Hz
- Total harmonic distortion: 500 Hz 800 Hz 1600 Hz
  - 3% 4% 1.5%
- Battery current:
  - Quiescent: 1.1 mA
  - Working: 1.2 mA
- Equivalent input noise level: 19 dB SPL

Acoustic gain

- Maximum:
  - 67 dB
  - 67 dB
  - 53 dB
- Full-on gain:
  - (Input 50 dB SPL)
  - Reference test gain:
  - (Input 60 dB SPL)

Induction coil sensitivity

Maximum 100 dB SPL
1600 Hz 100 dB SPL
(Input 1 mA/m)

Reference test gain
(Input 31.6 mA/m)

Dynamic data

Compression Attack time Recovery time
10 ms 50 ms

Input / Output characteristics at 2000 Hz

2cm³ coupler data
ANSI S3.22-2009

Output sound pressure level

Nominal 129 dB SPL Maximum HFA 122 dB SPL
Full-on gain (Input 90 dB SPL)

Frequency range <100 Hz - 7100 Hz
Total harmonic distortion 500 Hz 800 Hz 1600 Hz
3% 4% 1.5%
Battery current
Quiescent Working
1.1 mA 1.2 mA
Equivalent input noise level 19 dB SPL

Induction coil sensitivity

Nominal 107 dB SPL Maximum HFA 2 dB
Full-on gain (Input 50 dB SPL)
Reference test gain (Input 60 dB SPL)

Dynamic data

Compression Attack time Recovery time
10 ms 50 ms

Input / Output characteristics at 2000 Hz

Note: Using pure tone measurements with a digital hearing instrument can result in a wavy frequency response. This is an artifact resulting from the use of a narrowband input signal and does not affect the actual performance with naturally occurring broadband input signals.