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Solutions to improve the quality of life



MicroLink Freedom is the world's first design-integrated FM receiver for a BTE speech processor and is offered exclusively to Nucleus Freedom users. This multi-frequency FM receiver is discrete and comfortable to match the sophisticated curves of the Freedom BTE processor and is of course compatible with all Phonak transmitters.



FM

## MicroLink Freedom and Nucleus Freedom



### Technical Data

|                                |  |
|--------------------------------|--|
| Frequency range:               | 169.40–176.00 MHz (Band HA)<br>214.00–220.00 MHz (Band NB)               |
| Frequency:                     | Multi-channel, quartz-stabilized   |
| Frequency stability:           | Better than $\pm 10$ ppm over the whole voltage and temperature range    |
| Frequency fine tuning (AFC):   | $\pm 6$ kHz  |
| Type of modulation:            | FM   |
| Adjacent channel selectivity:  | $> 50$ dB at 150 kHz   |
| Sensitivity:                   | SINAD $> 22$ dB at $E = 3$ mV/m  |
| Signal-to-noise ratio:         | 55 dB  |
| EMC:                           | According to ETS 300445 standard   |
| IEC approval:                  | According to ETS 300442 standard   |
| Antenna:                       | Built-in magnetic antenna  |
| Voltage range:                 | 0.9–1.6 V  |
| Current consumption (typical): |  |
| • FM / FM + mic.               | 2.1 mA (1.2 V)   |
| • Standby mode                 | $< 200$ $\mu$ A (1.2 V)  |
| Audio bandwidth:               | 100–7500 Hz ( $-3$ dB)   |
| Total harmonic distortion:     | $< 2\%$ for $f_{\text{mod}} = 1$ kHz and $\Delta f_{\text{dev}} = 3$ kHz |
| Operating temperature range:   | $-10^{\circ}\text{C}$ to $+60^{\circ}\text{C}$                           |
| Reception range:               | up to 40 meters (120 feet)   |