

ML11i for Phonak SuperPower BTEs

Technical Data



ML11i features

- Dynamic FM
- Durable
- WaterResistant as is the Naída SuperPower
- Automatic Frequency Synchronization (AFS) with WallPilot
- Direct Frequency Synchronization (DFS) with the **inspiro** or any other Phonak FM transmitter
- Intelligent stand-by mode to save power when the transmitter is switched off
- Fully programmable with FM SuccessWare 4.1 or higher

ML11i is the tiny, design-integrated Dynamic FM receiver for Phonak SuperPower. ML11i, like Naída is WaterResistant. ML11i offers everything Dynamic FM encompasses. The hearing care professional can attach or remove an ML11i easily with just one pin.

ML11i for Naída, Milo, Milo Plus and OK! Plus: together they form a powerful communication solution for power users.



ML11i

Relevant internet pages

Your online comprehensive FM support tool for schools
www.eSchoolDesk.com

Latest set-up tips for FM systems in combination with hearing instruments and cochlear implants.
www.phonak.com/FM_Configurator

Your online FM knowledge base
www.FMELibrary.com

Your online FM counseling support tool
www.FMCounselWare.com

ML11i for Phonak SuperPower BTEs

General data

| | |
|------------------------------|---------------------|
| Type: | Dynamic FM receiver |
| Length: | 12 mm |
| Width: | 9 mm |
| Height (on the HI): | 8 mm |
| Weight: | 1.0 g |
| Operating temperature range: | -10°C to +60°C |

HF characteristics

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|--|--|
| Frequency range: | 169.4 - 176 MHz (H-band) 214 - 220 MHz (N-band) |
| Frequency: | Multi-channel, quartz stabilized |
| Frequency stability: | Better than +/-10ppm |
| Modulation: | FM (narrow band) |
| Antenna: | Ear level FM antenna |
| Spurious emissions (EMC): | < -54 dBm ERP |
| Sensitivity at E = 3mV/m: | SINAD ≥ 15 dB |
| Selectivity at Δf _{RX} = ±125kHz: | > 50 dB |

Audio characteristics

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| Audio bandwidth: | 100 - 6000 Hz |
| Distortion (THD): | < 2 % Full quieting FM $f_{mod} = 1\text{kHz}$ $\Delta f = 5\text{kHz}$ |
| Audio signal output: | -40 to -70 dBV at $f_{mod} = 1\text{kHz}$ $\Delta f = 4\text{kHz}$ |

Power management

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|-------------------------|----------------------------|----------|
| Power supply | Supplied by the HI battery | |
| Voltage range (extreme) | 0.9 to 1.6 V | |
| Current drain: | Active mode | < 3 mA |
| | Sleep mode | < 510 μA |

Standards

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|-----------|------------|
| Radiocom: | EN 300.422 |
| EMC: | EN 301.489 |
| | FCC |

Dynamic FM system data for inspiro and Dynamic FM receivers

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|---|-------------|
| Adaptive FM Advantage (AFMA): (Ambient noise level ≥ 73 dB SPL) | |
| Dynamic FM advantage over the hearing instrument: | up to 25 dB |
| Dynamic FM advantage over a traditional FM system: | up to 15 dB |

Voice Activity Detection (VAD):

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| Attack time: | 5 ms |
| Hold-on time: | 5 seconds |
| Release time: | 2 seconds |
| Voice off attenuation: | -26 dB |

Wireless Dynamic FM:

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| Frequency range: | Above the audio band |
| Operating range: | As FM operating range |

Wireless programming, monitoring and setting of FM Advantage:

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| FSK Link: | Frequency 40.96 kHz / Data rate 1000 - 2000 Bit/s Link from the transmitter to the receivers |
|-----------|---|

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|-----------|---|
| OOK Link: | Frequency 8.192 kHz / Data rate 1024 Bit/s Link from the receivers to the inspiro |
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| Operating range: | 20 cm / 8 inches |
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MultiTalker Network*:

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|---|
| Digital network for up to 10 transmitters |
| Frequency: 2.4 GHz / Data rate 2 Mbits/s |
| Operating range between the transmitters: 8 m |

* Also available if **inspiro** is used with traditional FM receivers.