



MM60 – Setting a New Standard for Hearing Health Technology

When you're designing technology that people depend on every day, there's no room for compromise. That's the philosophy that drove our team to completely reimagine what a MEMS microphone could be, resulting in the new MM60 series – our most advanced microphone for hearing health applications. Designed from the ground up, the MM60 delivers unprecedented electroacoustic performance and robustness specifically optimized for AI chipsets in hearing aid applications.

Features: Performance That You Can Hear

- **Cleaner sound:** Several dB reductions in noise floor
- **Fewer artifacts:** Dramatically reduced distortion from high-frequency sounds like keys jangling or ultrasonic sensors
- **Enhanced ultrasonic performance:** Better handling of high-frequency environmental sounds
- **Consistent performance:** Tighter manufacturing tolerances mean predictable results across production runs
- **Enhanced durability:** ESD protection exceeding 15 kV (far beyond industry requirements)



For users, this means microphones that sound better and last longer in every environment – from active gym workouts to loud cocktail parties.

MEMS MOTOR:

At the heart of the MM60 is the innovative motor, featuring a revolutionary new design. Unlike current generation microphones, MM60 is a step function improvement for particle and liquid ingress such as water, sweat and dust. The robustness translates directly to reduce field return rates while enabling users to maintain active lifestyle.

- **Deep water performance:** 100% pass rate at 2 meters (compared to 0% for previous generation)
- **Dust resistance:** 80% survival rate against forced 5-micron particle intrusion
- **Pressure tolerance:** Withstands over 100 PSI air bursts without failure
- **Orders of magnitude more reliable** than previous microphone generations

COMPLETELY REDESIGNED ASIC:

The redesigned ASIC circuit not only processes audio but also optimizes it for each specific application. This programmable circuit offers unprecedented control over every aspect of microphone performance:

- **Dual-Stage Gain Control:** Fine-tune performance both at input (for maximum headroom) and through amplifier (for minimum noise)
- **Precision Filtering:** Programmable high-pass and low-pass filters from 25 Hz to 20 kHz let you sculpt the perfect frequency response
- **DC Offset Control:** Match your microphone output precisely to your preamplifier's requirements
- **Power Optimization:** Reduce current consumption while maintaining performance standards