

MIC-001 – Electret microphone for ADC-001

The MIC-001 is an electret microphone assembly designed for use with the ADC-001 audio experimenter's platform. The microphone is fully shielded to eliminate pickup of EMI, is connectorized, and is ready for use with an ADC-001.

Specifications

- Frequency range: 50 – 15kHz.
- Sensitivity: -46 +/- 3dB.
- SNR: 55dB.
- Output impedance: 2.2kohm.
- Direction: Omnidirectional.
- Microphone: PUI Audio model POM-2246L-C33-LW100-R.
- Shielded cable, shielded microphone to eliminate EMI pickup.
- Cable length: 36”.
- Connector: Molex 22-01-3027 to mate with input connector on ADC-001.



Example applications

The ADC-001 audio experimenter's platform supports two MIC-001 microphone-level inputs. Target applications for the MIC-001/ADC-001 include:

- Sound capture and analysis.
- Audio signal processing.
- Audio-frequency data acquisition.
- Embedded sensors and controllers.
- DSP algorithm prototyping and development.
- Education, research, and development.

Open-source flexibility

Hardware and software documentation, as well as drivers and example source code are available on GitHub under <https://github.com/brorson>. Taken together the MIC-001/ADC-001 combination allow you to become productive quickly with your audio signal processing project.

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