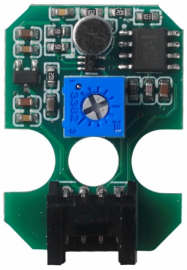
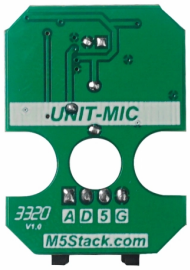
Unit MIC

SKU:U096





Description

Unit MIC is a sound sensor equipped with an omnidirectional electret microphone. The signal is amplified and output through the MAX4466 microphone preamplifier. This amplifier effectively suppresses power supply noise and common-mode noise, providing high-fidelity sound output, making it suitable for use in noisy environments. This unit can output both analog and digital signals. It includes a built-in LM393 dual voltage comparator, allowing the comparison voltage threshold to be set by adjusting a 10K potentiometer. This sensor is ideal for projects involving sound-to-electricity conversion and sound-activated switches.

Features

- Sound sampling/audio recording
- Built-in MAX4466 microphone preamplifier
- Omnidirectional, 52dB sensitivity
- Analog and digital signal output
- Built-in voltage comparator and adjustable potentiometer for threshold setting
- Development platforms: Arduino, UIFlow (Blockly, Python)
- HY2.0-4P interface
- 2 x LEGO-compatible holes

Includes

- 1 x Unit MIC
- 1 x HY2.0-4P Grove cable (20cm)

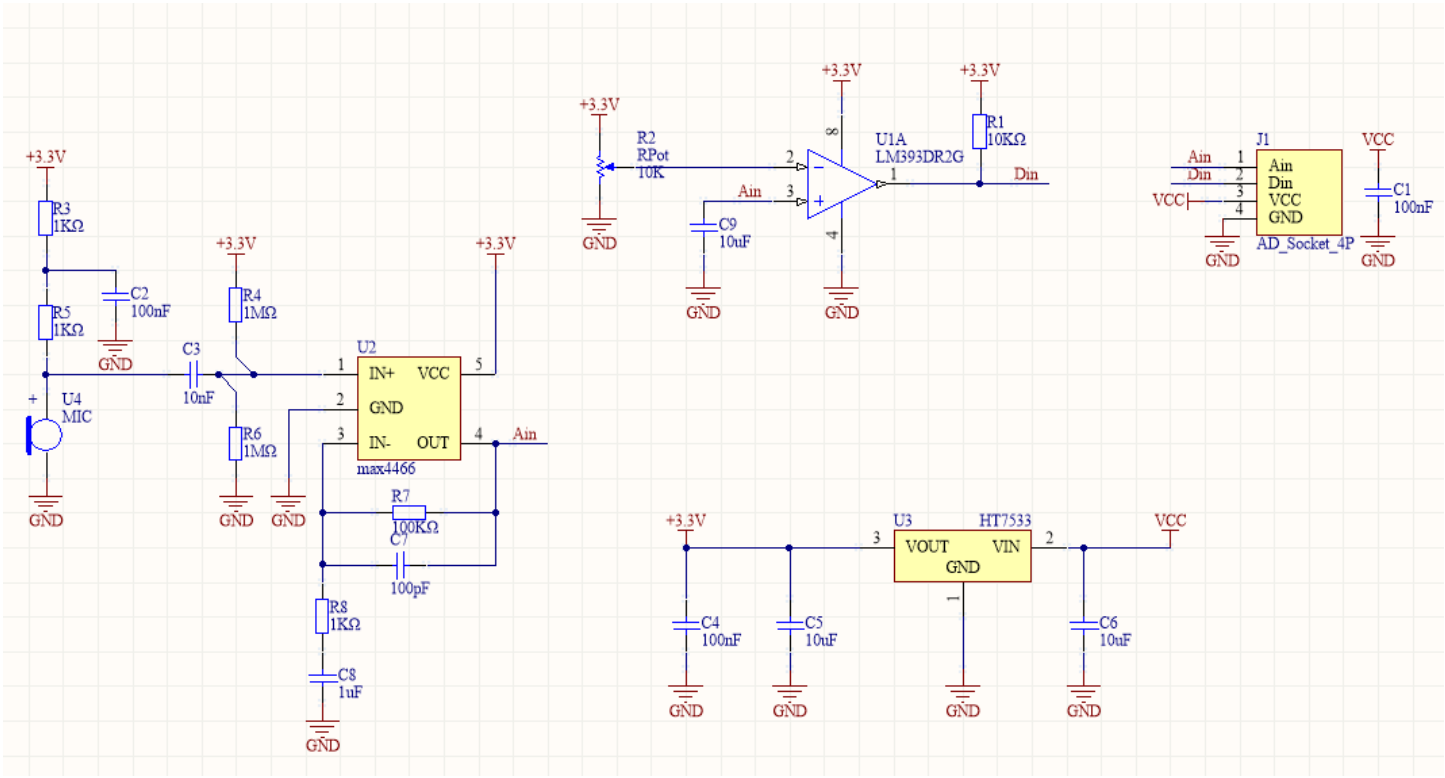
Applications

- Sound-to-electricity conversion
- Sound-activated switches

Specifications

Specification	Parameter
Microphone sensitivity/Signal-to-noise ratio	52dB/40dB
Output signal	Analog/Digital
Input voltage	5V
Product Size	32.0 x 24.0 x 8.0mm
Product Weight	4.6g
Package Size	138.0 x 93.0 x 9.0mm
Gross Weight	10.0g

Schematics

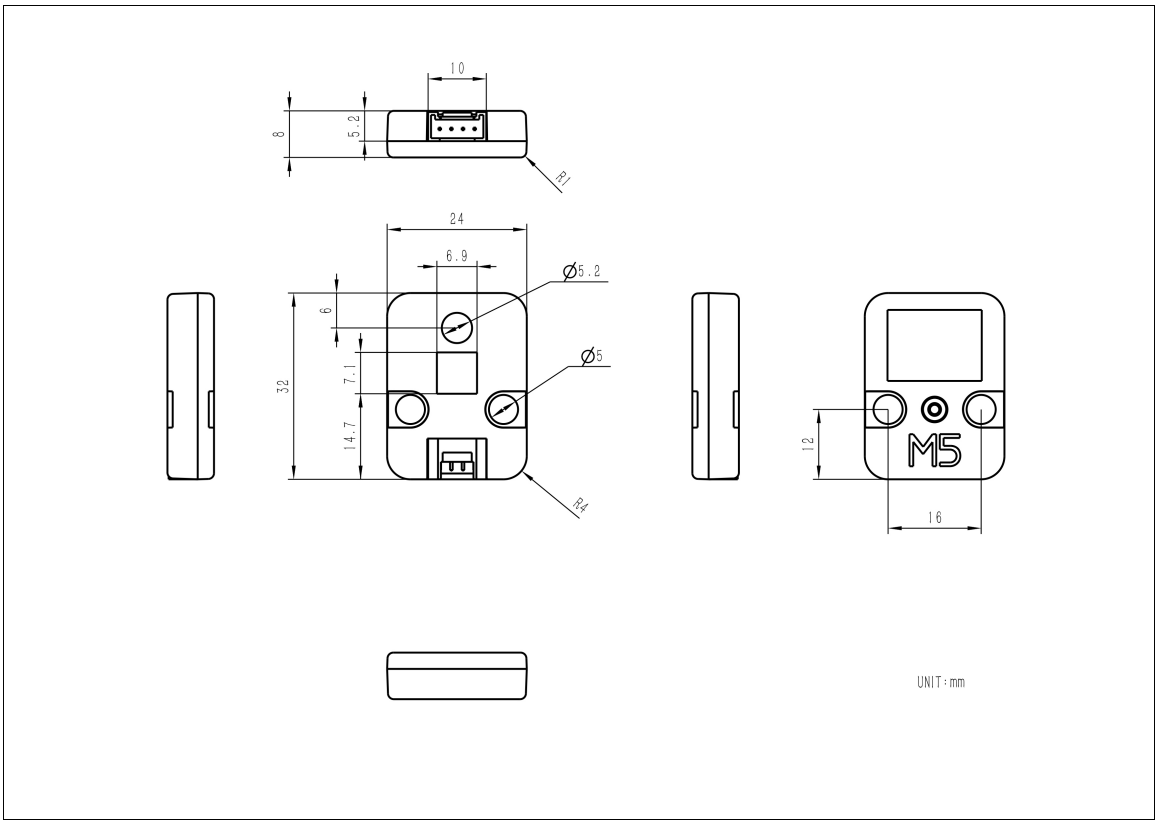


PinMap

Unit MIC

HY2.0-4P	Black	Red	Yellow	White
PORT.B	GND	5V	Digital Output	Analog Output

Model Size



Datasheets

- MAX4466
- LM393

Softwares

Arduino

- Unit MIC Test Example

EasyLoader

Easyloader	Download Link	Notes
Unit MIC Test Easyloader	download	/

Video

- Displaying AD values from microphone sampling

MIC.mp4