

Hat-SPK2

SKU:U055-B



Description

The 'HAT-SPK2' is a speaker with **M5StickC PLUS**, built-in **MAX98357 digital audio I2S amplifier IC** and 1W speaker, supporting **16-bit, 32kHz to 192kHz sample rate audio input**, built-in **short circuit protection** and **over-temperature protection**, suitable for a variety of audio applications.

Features

- HIGH-QUALITY AUDIO OUTPUT: SUPPORTS 16-BIT, 32KHZ TO 192KHZ SAMPLE RATE AUDIO INPUT
- Multiple output modes: including mono and stereo, as well as audio input formats such as I2S, left-justified, and right-justified
- Stability and reliability: Built-in short-circuit protection and over-temperature protection
- Programming platforms: Arduino, uiflow

Includes

- 1x HAT-SPK2

Applications

- Audio speakers

- Audio speakers
- television set
- Car audio
- Smart speakers

Specification

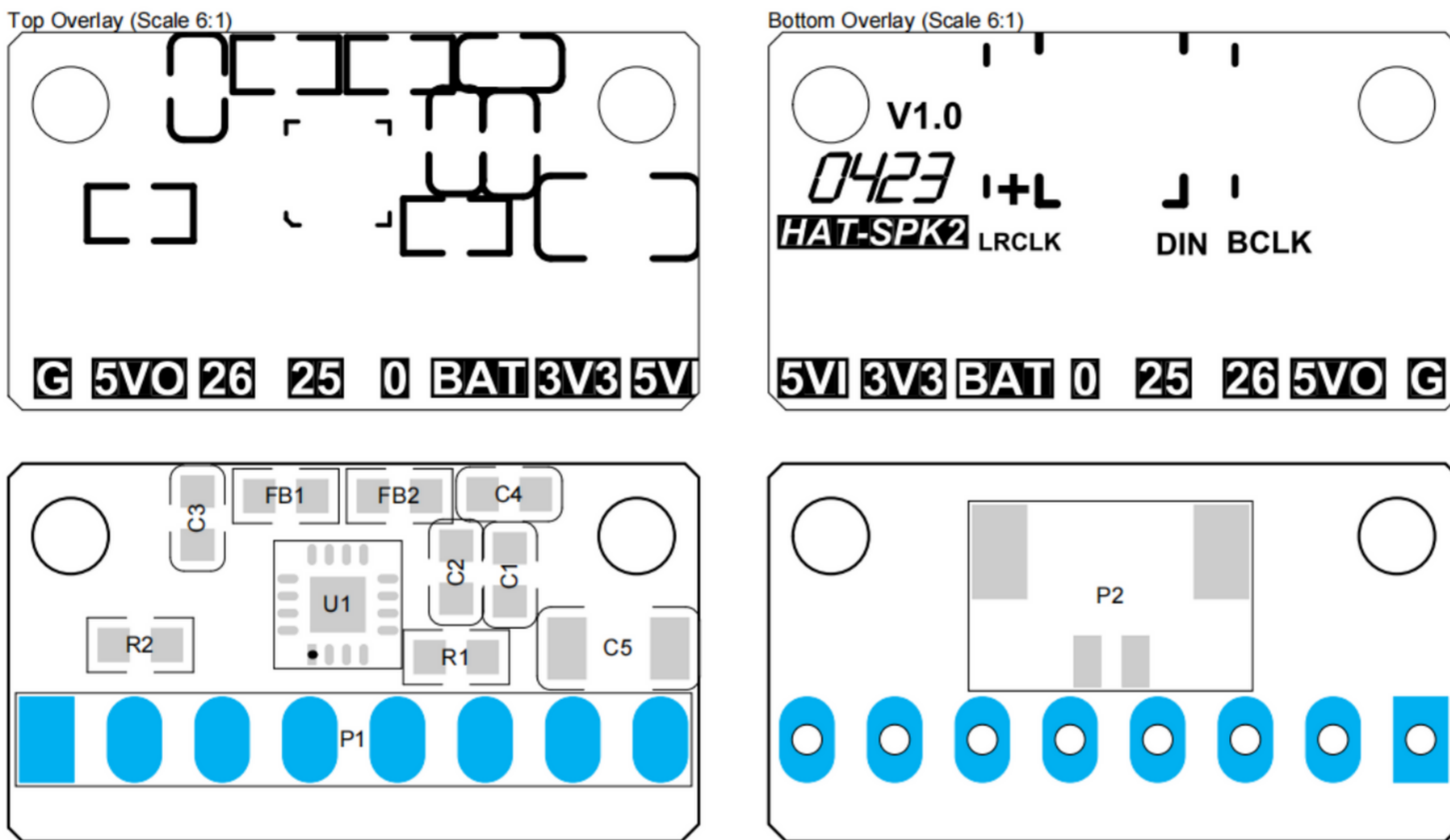
Resources	Parameters
Power output	Maximum 20W
Signal-to-noise ratio	103dB
Distortion rate	0.1%
Supply voltage	4.5v-5.5v
Operating temperature range	0-40°C
Enter the audio format	I2S, left-aligned, right-aligned
Sample rate	32kHz to 192kHz
Control interface	I2C, SPI, GPIO
Product Size	24mm × 18.6mm × 13.7mm
Package Size	136mm × 92mm × 13mm
Product Weight	4.6g
Package Weight	8.1g



Related Link

- [MAX98357](#)

Schematic

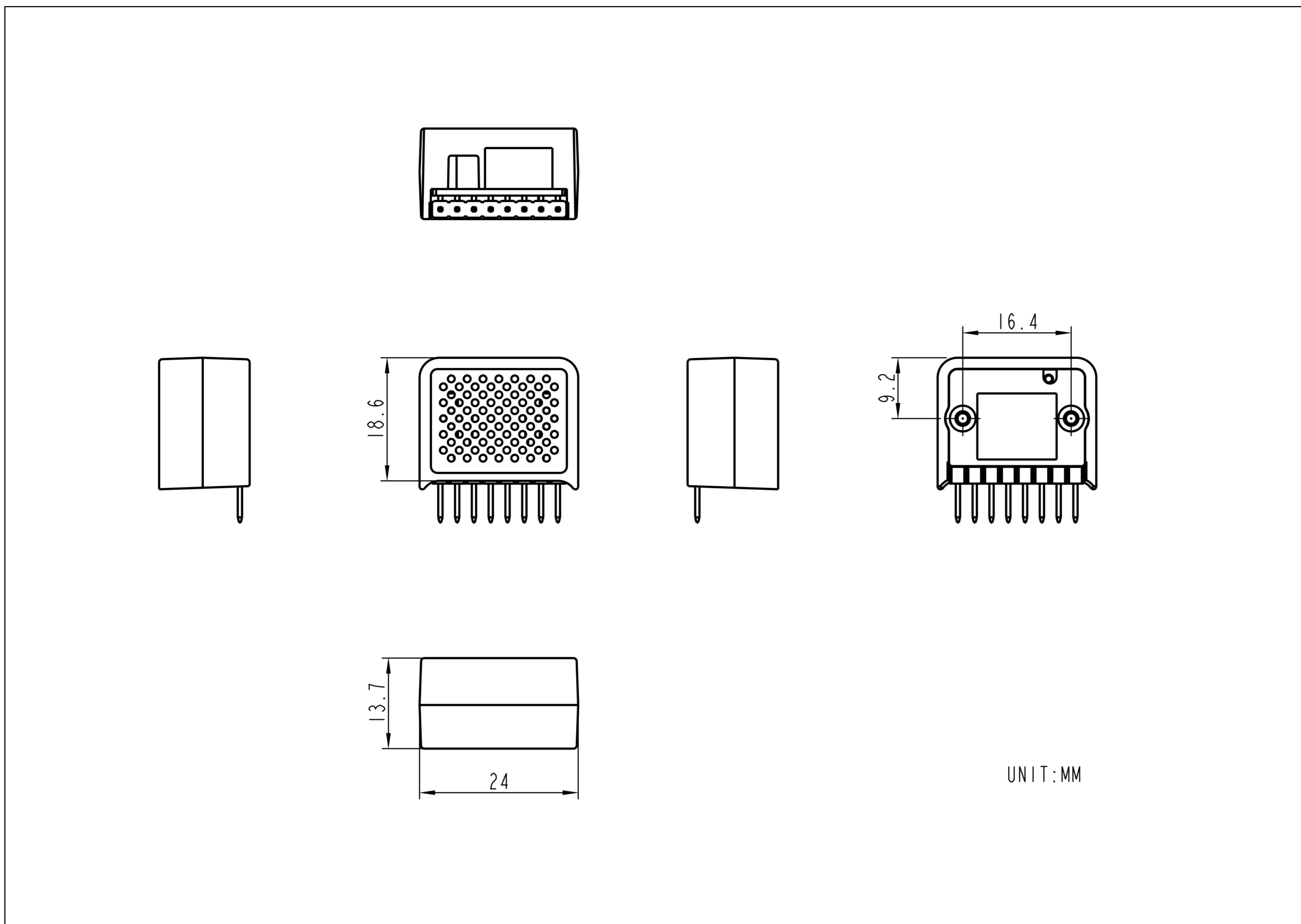


M5STACK

Comparison chart

特征	HAT-SPK2	HAT-SPK
功率输出	最大20w	最大3w
信噪比	103dB	85dB
失真率	0.1%	10%
电源电压	4.5v-5.5v	2.5v-5.5v
输入音频格式	I2S、左对齐、右对齐	单声道

Module Size



Examples

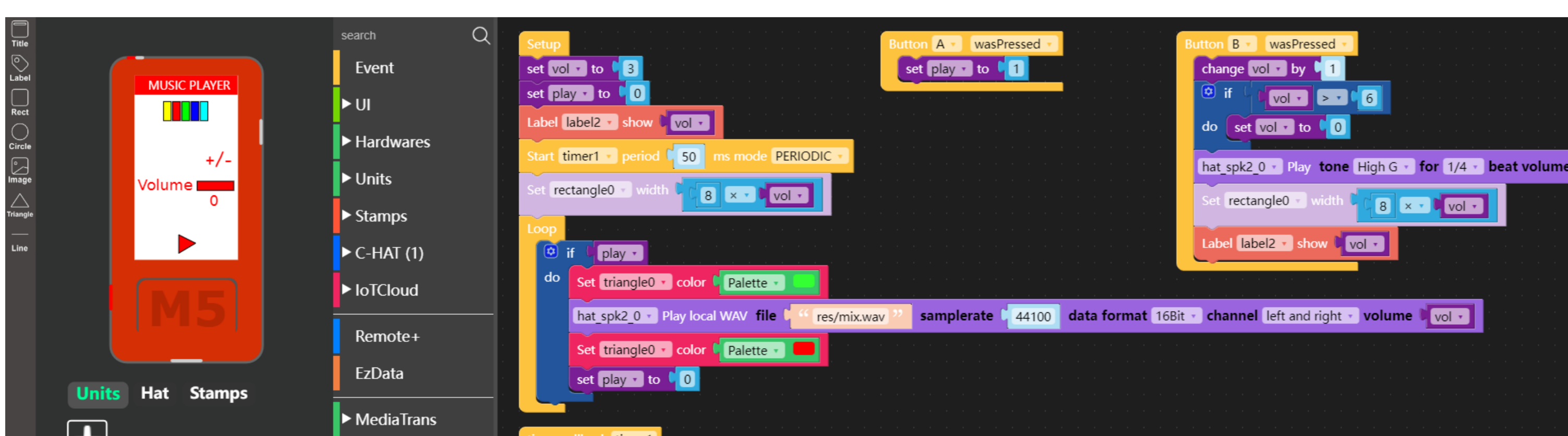
Arduino

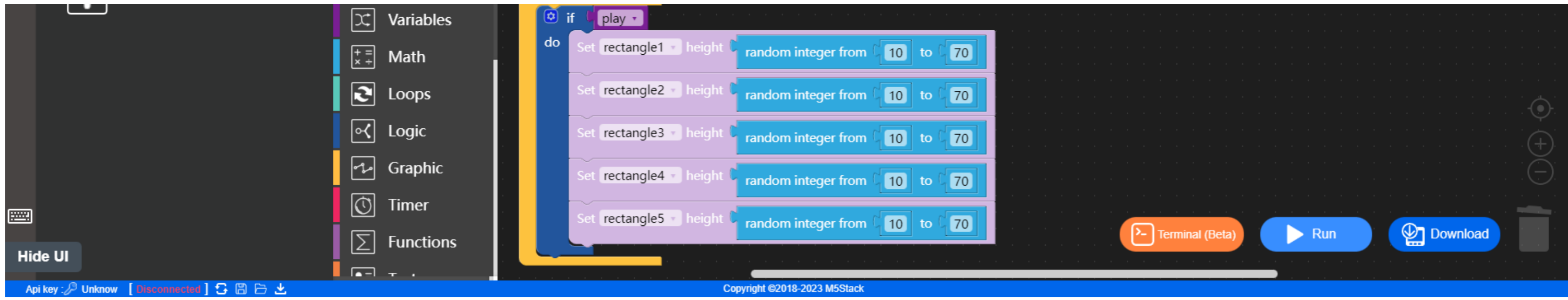
- [HAT-SPK2 Arduino Example](#)



UIFlow

- [HAT-SPK2 UIFlow Example](#)



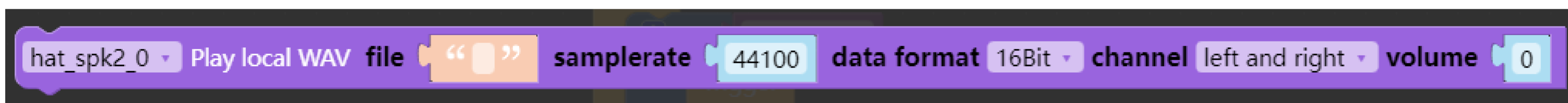


UIFlow Blocks

- Play local WAV file



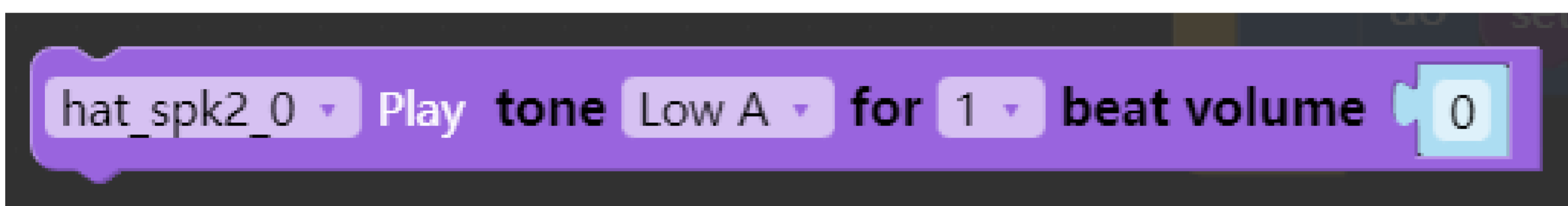
- Play local WAV file



- Play cloud WAV file



- Play tone



- Play tone

