

Configurable OpAmp Board - TSH82

BOB-14874

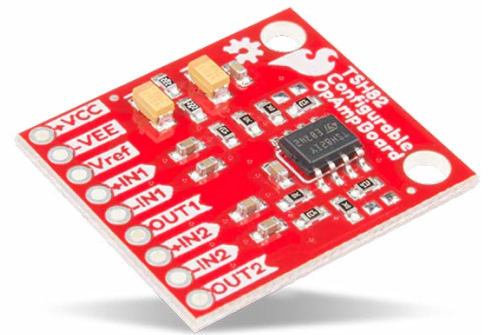
Product Overview

12-31-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Configurable OpAmp Board - TSH82 is designed for performance and flexibility by having two gain stages independently accessible on the header pins. Each stage is natively configured as an inverting amplifier and can be strung together to expand the capabilities of the TSH82 OpAmp from STMicroelectronics. With the use of the jumpers on the back of the board, user can configure each stage for non-inverting operation, differential input, and DC input coupling.

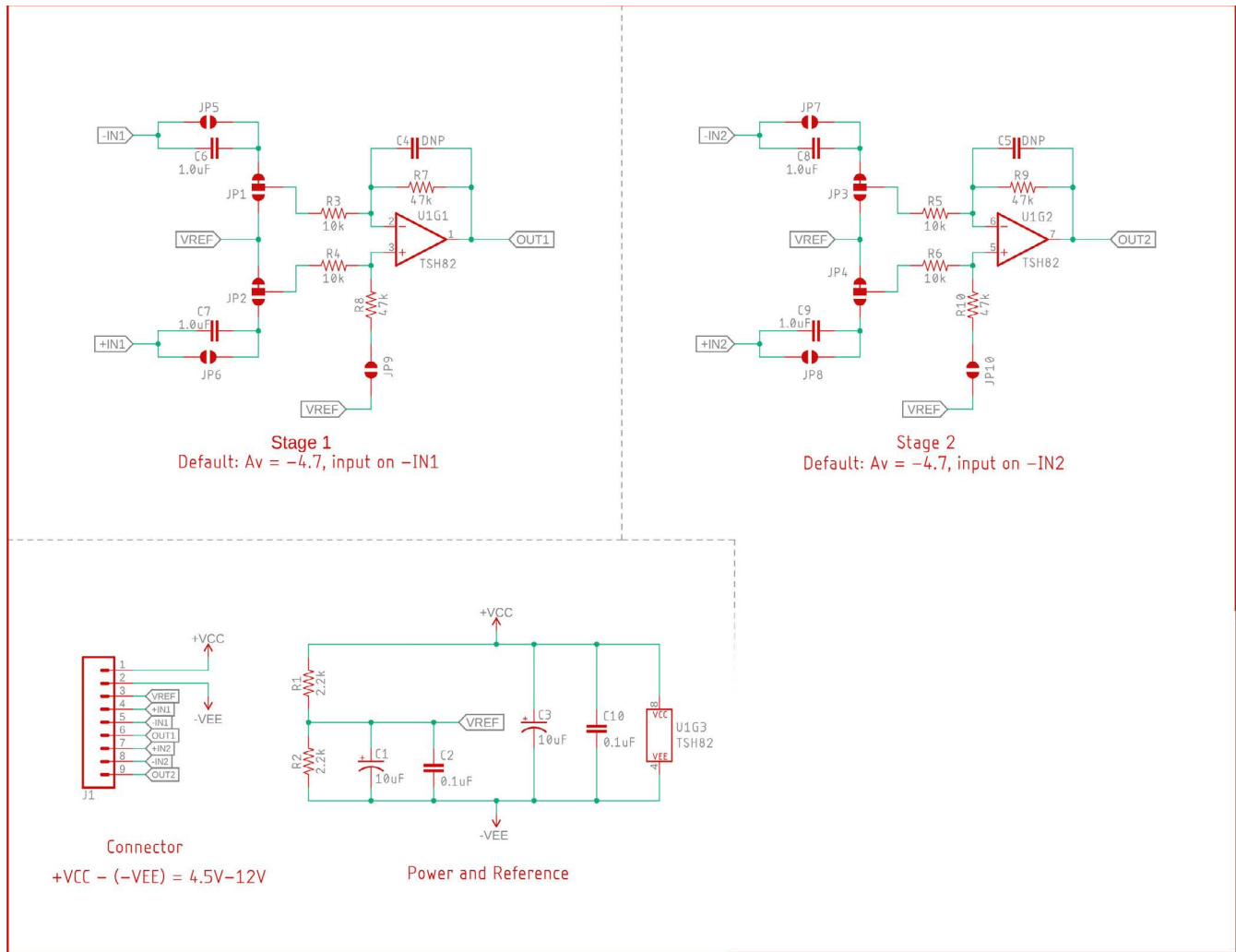


Electrically speaking, both stages on this board are identical. The default configuration is inverting with a gain of -4.7 with a bandwidth of almost 10MHz. Input signals are AC coupled, possess an input impedance of 10K with a low frequency cutoff of 15.9Hz. Outputs are also DC coupled, so don't forget to add a capacitor to the output while running a single-ended supply and need to strip out the DC component. The board will also operate with a single-ended DC power supply of 4.5V to 12V, or a bipolar supply from +/-2.25V to +/-6V.

Features

- 2 gain stages, each one independently accessible on the header pins
- Each stage natively configured as an inverting amplifier and can also be strung together to expand capabilities
- Jumpers on the back of the board can be used to configure each stage for non-inverting operation, differential input, and DC input coupling
- Default configuration is inverting with a gain of -4.7 with a bandwidth of almost 10MHz
- Input signals are AC coupled and possess an input impedance of 10K with a low frequency cutoff of 15.9Hz
- The board can operate with a single-ended DC power supply of 4.5V to 12V, or a bipolar supply from +/-2.25V to +/-6V

Schematic



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-bob-14874-opamp-board/>