

Current Sensor Breakout Board

SEN-14544

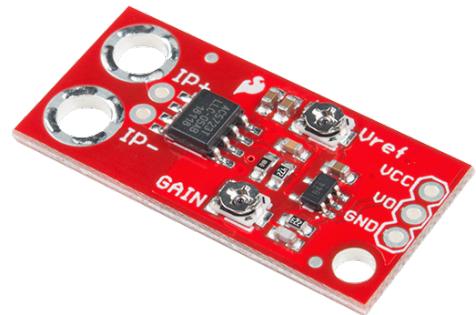
Product Overview

01-03-2022

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

Description

SparkFun SEN-14544 Current Sensor Breakout Board is a high accuracy board that utilizes the ACS723 sensor for low to moderate AC and DC current sensing applications. This ACS723 sensor uses a hall effect sensor to measure the output voltage relative to the current flowing through the IP+ and IP- pins. The SEN-14544 breakout board senses very small currents down to around 10mA and large currents up to 5A.

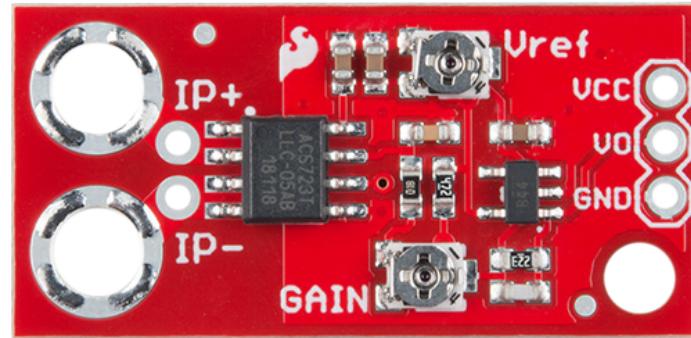
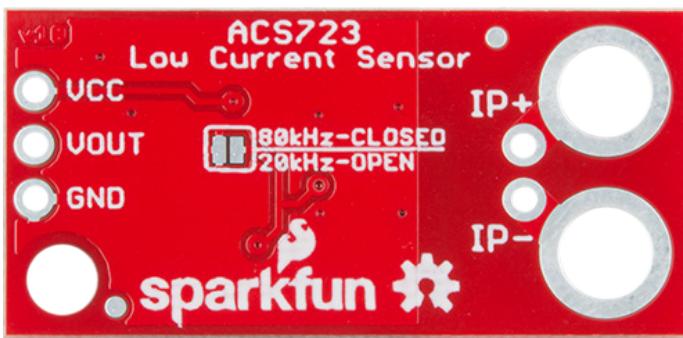


This breakout board comes with a full electrical isolation of measured, sensed circuits, and adjustment of sensitivity. The ACS723 sensor is capable of full 80KHz bandwidth that can be recovered by closing the JP1 jumper on the back of the board. This breakout board is RoHS compliant.

Features

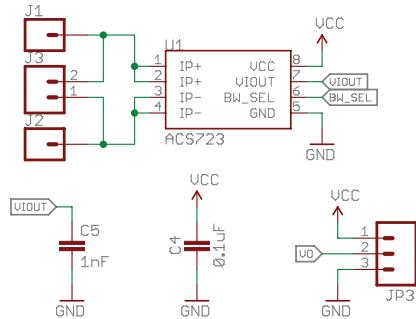
- Utilizes ACS723 current sensor
- Capable of sensing:
 - Small currents down to 10mA
 - Large currents up to 5A
- Full electrical isolation of measured and sensed circuits
- RoHS compliant

Board Overview



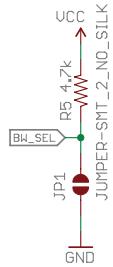
Schematic Diagram

ACS723LLCTR-05AB-T2



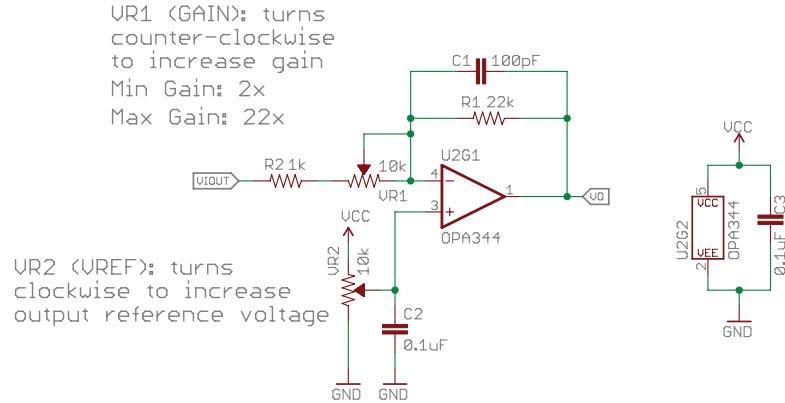
NOTES:
 -VCC: 4.5V-5.5V
 -Current Range: +/-5A

Bandwidth Select



JP1 (Sets bandwidth):
 OPEN = 20kHz Low Noise (default)
 CLOSED = 80kHz

Opamp



Mouser Part Number

[View Part](#)

 To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-14544-board/>