

(**Q**

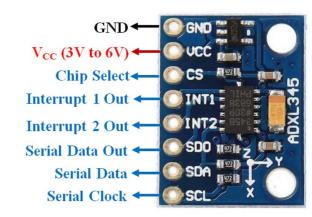
(/)

ADXL345 Accelerometer Module

19 May 2020 - 0 Comments



(/sites/default/files/components/ADXL345-Accelerometer-Module.jpg)



(/sites/default/files/component_pin/ADXL345-Pinout.jpg)

ADXL345 Accelerometer Module

ADXL345 Module Pinout

The **ADXL345** is a small, low power, complete 3-axis MEMS accelerometer modules with both I2C and SPI interfaces. The ADXL345 board feature on-board 3.3V voltage regulator and level shifter, which makes it simple to interface with 5V microcontrollers such as the Arduino.

ADXL345 Module Pin Configuration

Pin Name	Pin Configuration		
GND	Ground Pin		
VCC	Power Supply pin (3V to 6V)		
CS	Chip Select Pin		



Q

(/)

SDO	Serial Data Output				
SDA	Serial Data Input & Output				
SDL	Serial Communication Clock				

ADXL345 Module Features & Specifications

- 3V-6V DC Supply Voltage
- On-board LDO Voltage regulator
- Built-in Voltage level convertor (MOSFET based)
- It can be interface with 3.3V or 5V Microcontroller.
- Ultra-Low Power: 40uA in measurement mode, 0.1uA in standby@ 2.5V
- Tap/Double Tap Detection
- Free-Fall Detection
- SPI and I2C interfaces
- Measuring Range: ±16g
- Measuring Values (-16g to +16g):
- X: -235 to +270
- Y: -240 to +260
- Z: -240 to +270

AlternateSensorModules:ADXL335AccelerometerModule(https://components101.com/modules/adxl335-accelerometer-module),HMC5883LMagnetometerModule (https://components101.com/ics/hmc5883l-magnetometer-module),SoilMoisture Sensor (https://components101.com/modules/soil-moisture-sensor-module)

Related Components: ADXL345, Resistors, Voltage Regulator IC, Level Shifter IC

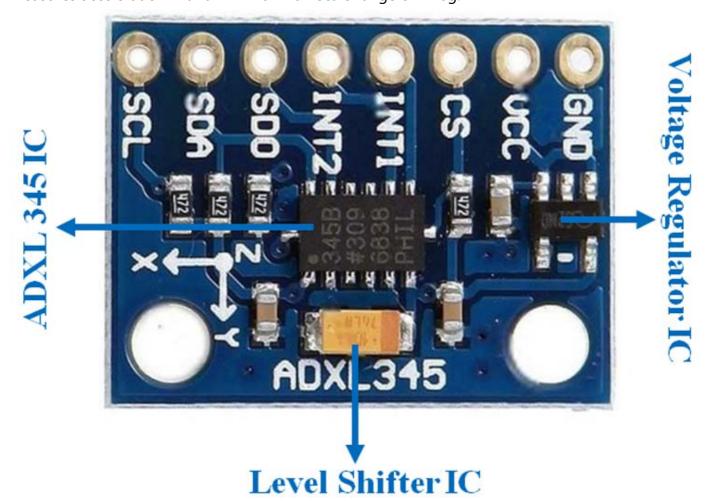
Brief about Accelerometer Module



Q

(/)

ADXL345 IC from Analog Devices is the brain of this module. The ADXL345 is a small, thin, low power, complete 3-axis accelerometer with signal conditioned voltage outputs. The product measures acceleration with a minimum full-scale range of ± 16 g.



How to Use the ADXL345 Accelerometer Module

ADXL345 Accelerometer module consists of 8 pins. Using the ADXL345 module with a microcontroller is very easy. Connect VCC and GND pins to 5V and GND pins of Microcontroller. Also, connect SCL and SDA pins to the SCL and SDA pins of Arduino.

The basic structure of the accelerometer consists of fixed plates and moving plates. When the acceleration is applied on an axis capacitance between fixed plates and moving plates is changed. This results in a sensor output voltage amplitude, which is proportional to the acceleration.



(a)

(/)

- Cost-sensitive, low power, motion- and thit-sensing applications
- Mobile devices
- Gaming systems
- Disk drive protection
- Image stabilization
- Sports and health devices

Component Datasheet

Where to Buy

Click here to view more results for ADXL345 (https://analytics.oemsecrets.com/main.php? utm_campaign=article&utm_source=components101&utm_content=header&utm_medium=cc&ev

	Distributor ≑	Part Number	Stock \$	
Farnell	Farnell	ADXL34 5BCCZ-R L7 more	0	
MOUSER	Mouser Electronics	ADXL34 5BCCZ-R L7 more	19159	Buy Now (https://analytics.oemsecrets.com/main.php
WDVIA	Arrow Electronics	ADXL34 5TCCZ-E P-RL7 m ore	2453	
Verical An Arrow Company	Verical	ADXL34 5TCCZ-E P more	761	
RichardsonRFPD	Richardson RFPD	ADXL34 5BCCZ-R L7 more	0	





(/

DISTRELEC	Distrelec	ADXL34 5BCCZ	84	Buy Now (h
Digi-Koy	Digi-Key Electronics	ADXL34 5BCCZ more	22325	
chip stop	Chip One Stop	ADXL34 5BCCZ-R L7 more	6930	Buy Now (htt
WDW	Arrow China	ADXL34 5TCCZ-E P-RL7 m ore	2453	
WDW	Arrow Asia	ADXL34 5BCCZ-R L7	22500	

Find and Compare Electronic Components & Parts

Get more part information including pricing, lead time and technical specs using **oemsecrets.com** (https://www.oemsecrets.com?

utm_source=components101&utm_campaign=article&utm_content=site) part search

Upload BOM (https://analytics.oemsecrets.com/main.php?utm_campaign=article&utm_source=

FEATURED FROM OEMSECRETS.COM

Whitepaper: Smart Industrial Solutions for Energy Efficiency

Manufacturers are currently faced with the



(**Q**)

(/)



Tags

3-AXIS ACCELEROMETER (/TAGS/3-AXIS-ACCELEROMETER)

ACCELEROMETER (/TAGS/ACCELEROMETER)

Related Post

Join 20K+subscribers

We will never spam you.

* indicates required

Enter Your Email Address

Enter Your Name

Subscribe

Be a part of our ever growing community.





Omron's D6T Sensor offers contactless measurement and can detect the slightest temperature changes (https://bit.ly/3fnDilV)



24 W and 36 W AC/DC Industrial and Medical Power Supplies – TMW Series

(https://bit.ly/dhatlepst?//bit.ly/3AISwtR)

Traco Power's TMW series fully encapsulated AC/DC power supplies feature flexible mounting options.



AVR-IoT Cellular Mini Development Board (https://bit.ly/3RocmAj)

(https://bit.ly/kinerochip's AVR-IoT Cellular Mini features Sequans Monarch 2 GM02S cellular module



TRF1208 Evaluation Module (https://bit.ly/3BNoeW9)

The TRF1208 evaluation module (EVM) is ready to connect to a 3.3-V power supply

(https://bit.ly/3BNoeW9)



MYC0409 Series 48 V Charge Pumps (https://bit.ly/3CasPTE)

(https://bit.ly/INCastals) ultra-thin, high-efficiency, 72 W charge pump modules support 48 V Bus architecture



Plastic Knobs (https://bit.ly/3SwYVit)

Finish applications easier with a broad range of knobs in a variety of shapes, styles and sizes. (https://bit.ly/3SwYVit)



High-Current, High-Voltage Cartridge Fuses – 526 Series and 527 Series (https://bit.ly/3UH4pIN)

(https://bit.ly/jittelfung)'s high-current, high-voltage cartridge fuses – 526 series and 527 series



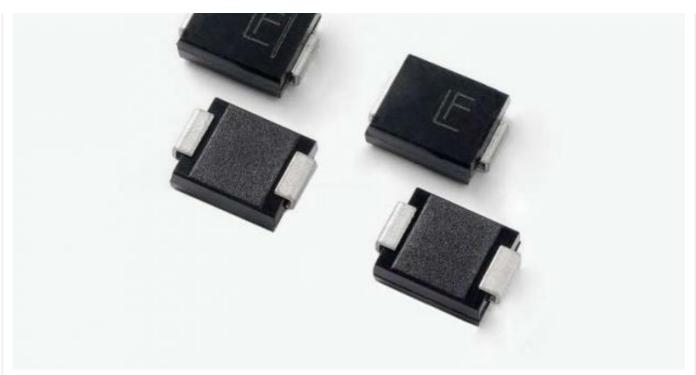
DCM2322 Lower-Power Family of Isolated, Regulated DC/DC Converter Modules (https://bit.ly/3xZdkvl)

(https://bit.ly/3xZdkyl) wer, wide range (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V to 50 V), small 22 x 23 x 7mm package (43 V to 154 V, 14 V to 72 V, and 9 V t

LATEST PRODUCTS







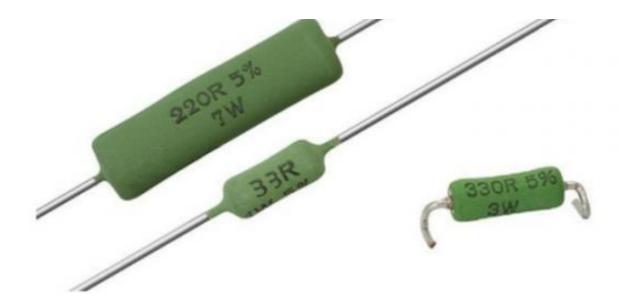
(/news/50smdjxxs-hra-series-compact-smd-tvs-diodes-provide-high-reliability-and-66-increase-in-surge-handling-for-aerospace-and-avionics-applications)

5.0SMDJxxS-HRA Series: Compact SMD TVS Diodes Provide High-Reliability and 66% Increase in Surge Handling for Aerospace and Avionics Applications (/news/50smdjxxs-hra-series-compact-smd-tvs-diodes-provide-high-reliability-and-66-increase-in-surge-handling-for-aerospace-and-avionics-applications)

October 17, 2022







(/news/cemented-leaded-wirewound-resistors-with-high-power-dissipation-and-excellent-pulse-load-capability-designed-for-automotive-and-industrial)

Cemented Leaded Wirewound Resistors with High Power Dissipation and Excellent Pulse Load Capability Designed for Automotive and Industrial Electronics (/news/cemented-leaded-wirewound-resistors-with-high-power-dissipation-and-excellent-pulse-load-capability-designed-for-automotive-and-industrial)

October 13, 2022



Q

(/



(/news/new-high-soa-30v-n-channel-mosfet-with-high-current-capability-optimized-for-12v-hot-swap-applications)

New High SOA 30V N-Channel MOSFET with High Current Capability Optimized for 12V Hot Swap Applications (/news/new-high-soa-30v-n-channel-mosfet-with-high-current-capability-optimized-for-12v-hot-swap-applications)

October 12, 2022

Components101 is a resource dedicated for electronics design engineers, covering product news, analysis and articles on latest electronics components.

IMPORTANT LINKS

- (Sontact)
- (ASYACTISE)





- (https://www.ivenents101.com/automotive-electronics)
- (1907)s://components101.com/iot-internet-of-things)
- (https://gcomponents101.com/audio-electronics)
- (Masi/geomponents101.com/medical-electronics)
- (https://teiahponents101.com/industrial)
- (Mp3:740mponents101.com/wearables)
- (In 189966/15 Generits 101.com/telecom)
- (htpm//com/home-automation)
- (Figsty/60/Abideats101.com/electric-vehicles)
- (Attificial-Intelligence)

Copyright 2021 © Components101. All rights reserved