MMA7361L Module

-Accelerator Sensor Module

Overview

This is a breakout board for Freescale's MMA7361L three-axis analog accelerometer. The sensor requires a very low amount of power and has a g-select input which switches the accelerometer between ±1.5g and ±6g measurement ranges. Other features include a sleep mode, signal conditioning, a 1-pole low pass filter, temperature compensation, self test, and 0g-detect which detects linear freefall. Zero-g offset and sensitivity are factory set and require no external devices.

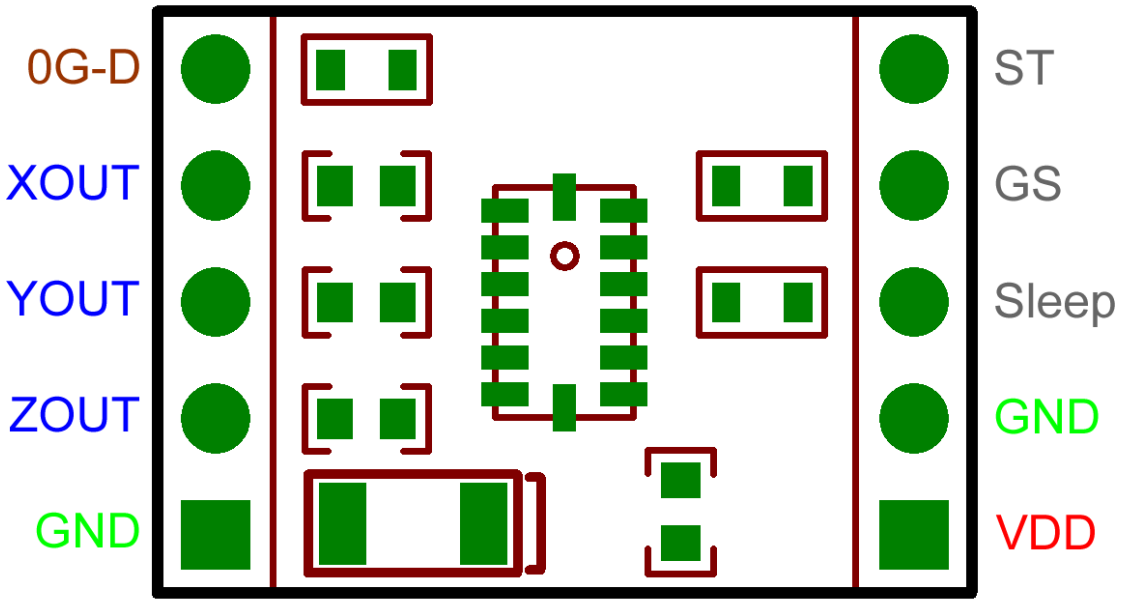
Specifications

Main IC	MMA7361L
PCB size	17.8mm X 12.7mm X 1.6mm
Power supply	3.3V DC
RoHS	Yes

Electrical Characteristics

Specification	Min	Type	Max	Unit
Input voltage	3	3.3	3.6	VDC
Current Consumption	-	400	-	uA

Hardware



Pin	Pad Name	Type	Description
1	0G-D	O	0g Detect Signal
2	XOUT	A	XOUT
3	YOUT	A	YOUT
4	ZOUT	A	ZOUT
5	GND	G	Ground
6	VDD	P	Power Supply
7	GND	G	Ground
8	Sleep	I	Sleep mode, Low active
9	GS	I	Logic input pin to select g level
10	ST	I	Self-Test

A: analog output

I: digital input

O: digital output

Revision History

Rev.	Description	Release date
v1.0	Initial version	2011-10-06
V1.1	Fix a description error	2012-07-24