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GENERAL DESCRIPTION

The ADIS16080/PCB is a simple evaluation board that provides convenient access to the ADIS16080 using a standard 2mm, 2x6, connector interface. These connectors can be accessed using a variety of cable options, including standard 1mm ribbon cables. The ADIS16080/PCB is designed to be evaluated in an existing digital platform (MCU, DSP, FPGA, PLD, etc) or as part of the ADISEVAL system. Four mounting holes (sized for 2-56 or 2mm screws) have been provided to secure the board during evaluation.

CIRCUIT DESCRIPTION

The schematic, layout and parts list for the ADIS16080/PCB can be found in Figure 1, Figure 2, and Table 1.

The ADIS16080's digitized outputs can be accessed using the 4-wire serial port interface (SPI) signals on J1: SCLK, CS, DOUT and DIN. For specific information on using the ADIS16080's SPI interface, refer to the ADIS16080 datasheet. Auxiliary functions, such as the two 12-bit ADC inputs, can be accessed using J2. C1 and C4 provide additional filtering for the two different power supply inputs (Vdrive and Vcc). The ADIS16080's reference voltage is filtered by C2.

Table 1 – ADIS16080/PCB Parts List

| Reference Designator | Part Description |
|----------------------|---------------------------------------|
| U1 | ADIS16080ACCZ |
| J1,J2 | Connector, 12-pin, dual row, 2mm |
| C1, C4 | Power supply filtering, not installed |
| C2 | Vref filtering, not installed |
| C3 | Bandwidth reduction, not installed |

SPECIAL NOTES ON HANDLING

Note that the ADIS16080/PCB is not reverse polarity protected. Reversing the power supply or applying inappropriate voltages to any pin (outside the Absolute Maximum Ratings in the ADIS16080 data sheet) may damage the ADIS16080/PCB.

Table 2 – Power Supply Levels

| | |
|--------|------------------|
| Vcc | +4.75V to +5.25V |
| Vdrive | +2.7V to +5.25V |

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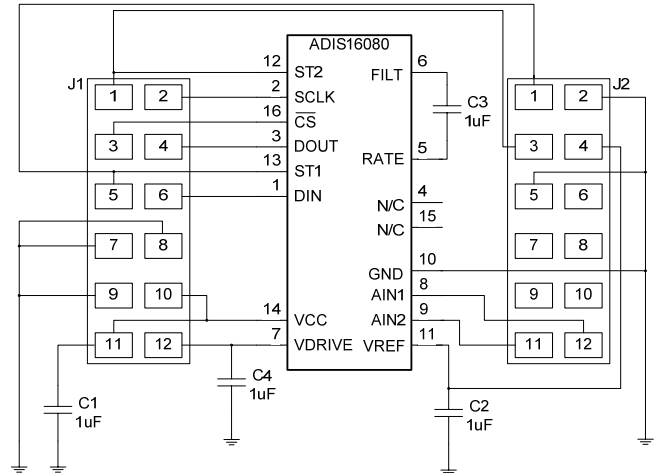


Figure 1 - ADIS16080/PCB Schematic

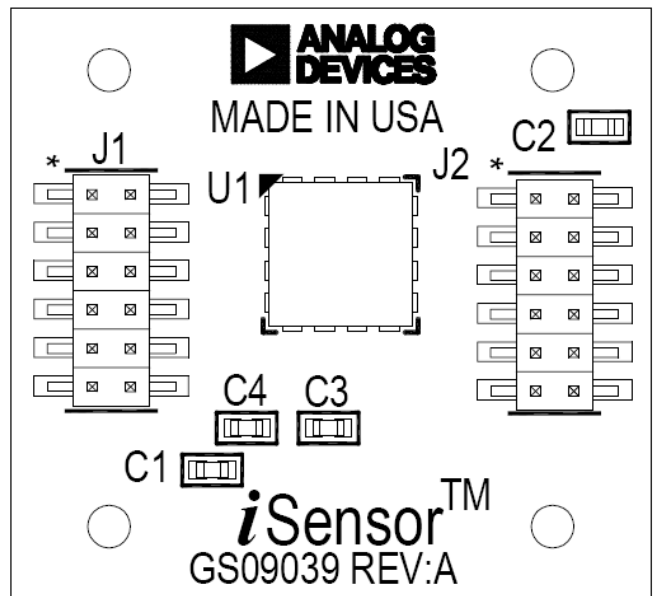


Figure 2 - ADIS16080/PCB Layout (Top View)

ORDERING GUIDE

| Model | Package Description |
|----------------|----------------------------------|
| ADIS16080/PCBZ | Evaluation Board, RoHS Compliant |
| ADISEVAL | iSensor™ PC Evaluation System |