Programmable, Triple Axis Gyro & Accelerometer Evaluation Board

Preliminary Technical Data

ADIS1635x/PCB

GENERAL DESCRIPTION

The ADIS1635x/PCB is an evaluation board that provides convenient access to the ADIS1635x using standard 2mm, 2x6, connectors, which can be accessed using a variety of simple cabling options. The ADIS1635x/PCB enables quick integration into an existing digital platform (MCU, DSP, FPGA, PLD, etc). Four mounting holes (sized for 2-56 or 2mm screws) have been provided to secure the board during evaluation.

The ADIS1635x has dedicated data/control registers which are used to control all input/output activity. These registers 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 ADIS1635x's SPI interface, refer to the ADIS16350 datasheet. Auxiliary functions, such as the 12-bit ADC input, 12-bit DAC output and digital I/O functions, can be accessed using J2. C1 and C2 are not installed but the pads are offered for additional filtering of power supply inputs.

Table 1 – ADIS1635x/PCB Parts List

Ref Des.	Part Description
J1,J2	Hirose P/N A3-12PA-2SV(71) Mating connector: 3M P/N 152212-0100-GB
J3	Samtec P/N CLM- CLM-112-02-L-D-A
C1, C2	Not installed

SPECIAL NOTES ON HANDLING

Note that the ADIS1635x/PCB is not reverse polarity protected. Reversing the power supply or applying inappropriate voltages to any pin (outside the Absolute Maximum Ratings in the ADIS16350 data sheet) may damage the ADIS1635x.

ORDERING GUIDE

Model	Package Description
ADIS16350/PCBZ	Evaluation Board, RoHS Compliant
ADIS16354/PCBZ	Evaluation Board, RoHS Compliant
ADIS16355/PCBZ	Evaluation Board, RoHS Compliant

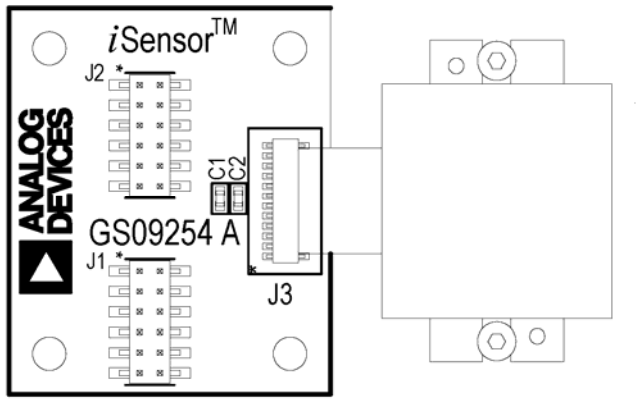

Figure 1 – Basic ADIS1635x/PCB Assembly View

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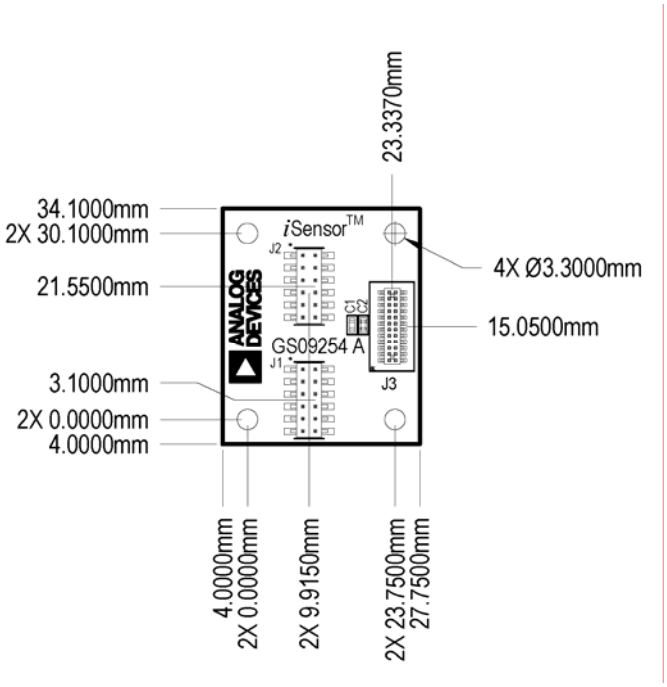

Figure 2 – Package drawing

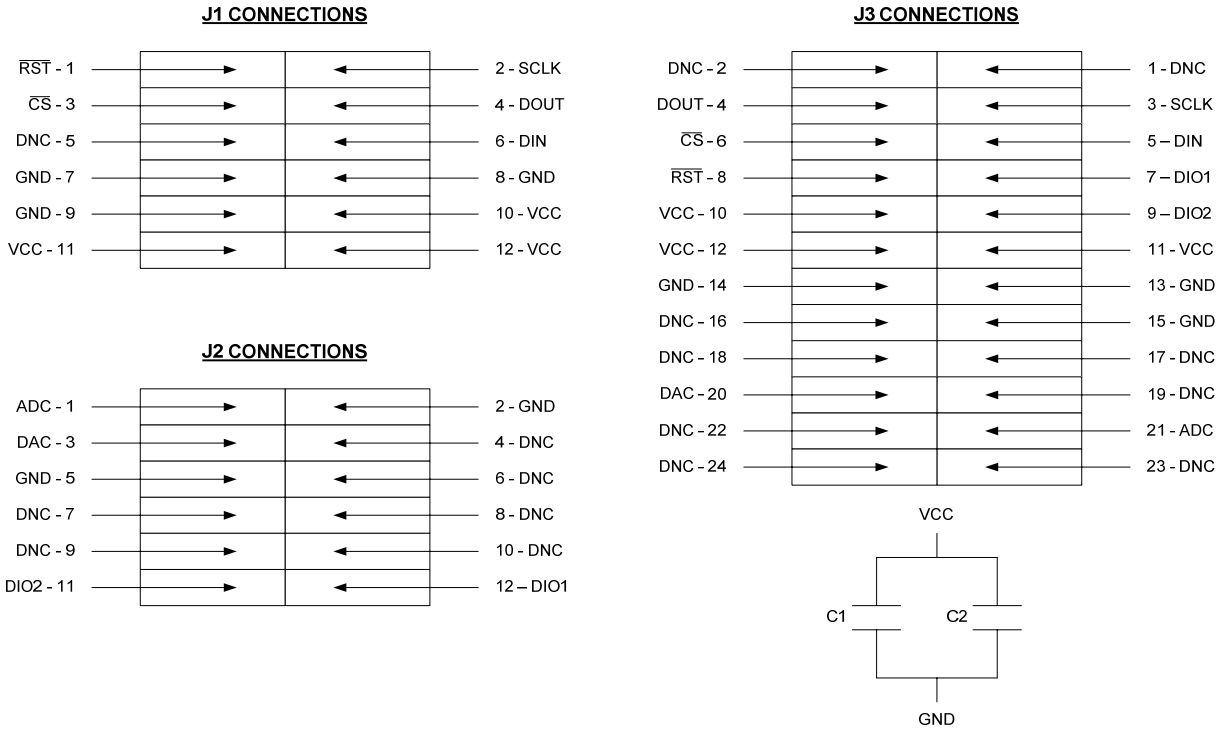

Figure 3 - Schematic