Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Three-Axis Accelerometer Evaluation Board

Preliminary Technical Data

EVAL-ADLX326Z

DESCRIPTION

The EVAL-ADXL326Z is a simple evaluation board that allows quick evaluation of the performance of the ADXL326 three-axis accelerometer. The EVAL-ADXL326Z has a 6-pin, 0.1 inch spaced header for access to all power and signal lines that the user can attach to a prototyping board (breadboard) or wire using a standard plug. Four holes are provided for mechanical attachment of the EVAL-ADXL326Z to the ADXL326.

The dimensions of the EVAL-ADXL326Z are 20 mm × 20 mm with mounting holes set 15 mm × 15 mm at the corners of the printed circuit board (PCB).

CIRCUIT DESCRIPTION

The schematic of the EVAL-ADXL326Z is shown in Figure 1. Analog bandwidth can be set by changing the C2, C3, and C4 capacitors. See the ADXL326 data sheet for a complete description of the operation of the accelerometer.

The part layout of the EVAL-ADXL326Z is shown in Figure 2. The EVAL-ADXL326Z has four factory installed 100 nF capacitors. C1 at V_S is a bypass capacitor to reduce supply noise. C2, C3, and C4 at X_{OUT}, Y_{OUT}, and Z_{OUT} are filter capacitors to set the bandwidth to 50 Hz (see Figure 1). Many applications require a different bandwidth, in which case the user can change C2, C3, and C4 as appropriate.

SPECIAL NOTES ON HANDLING

The EVAL-ADXL326Z is not reverse polarity protected. Reversing the +V supply and ground pins can cause damage to the ADXL326.

Dropping the EVAL-ADXL326Z on a hard surface can generate acceleration greater than 1000 *g*, which may exceed the data sheet absolute maximum limits. See the ADXL326 data sheet for more information.

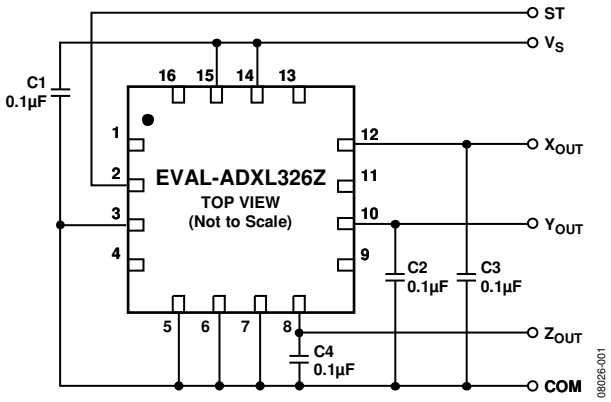

Figure 1. Schematic

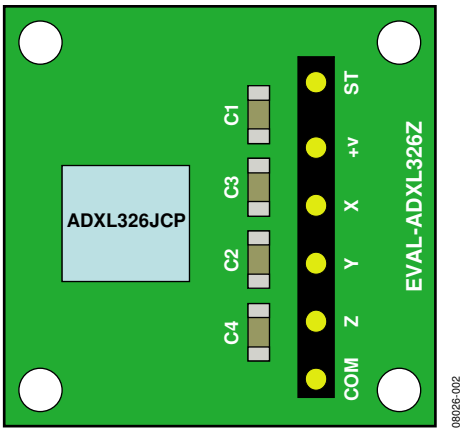

Figure 2. Layout

Rev. PrA

One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
Tel: 781.329.4700 www.analog.com
Fax: 781.461.3113

NOTES

EB08026-0-2/09(PrA)