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 VS is a bypass capacitor to reduce supply noise. C2, C3, and C4 at XOUT, YOUT, and ZOUT 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.