# DEM-TO263LDO EVM

This User's Guide describes the characteristics, operation, and use of the DEM-TO263LDO demonstration module (DEM).

## 1 Background

The Texas Instruments DEM-263LDO demonstration module (DEM) helps designers evaluate the operation and performance of Texas Instruments LDOs. This module is compatible with most positive output LDOs offered in the 5-lead TO220 (KC) and the TO263 (KTT) packages. Note that the TO263 package is also known as DDPAK. This User's Guide includes setup instructions, a schematic diagram, and a PCB layout drawing for the DEM

## 2 Setup

This DEM is specifically designed to be assembled with surface mount devices with footprints ranging from 603 to 1210. Additional holes have also been provided to accommodate leaded components. Refer to the product datasheet for specific guidelines when selecting components. The specific IC to be tested may be obtained through TI's sample program. All components other than the PWB are user supplied.

Figure 1 through Figure 3 show the board layout for the DEM-TO263LDO printed circuit board.

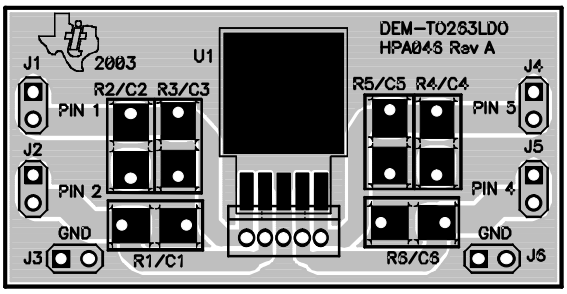



**Figure 1. Assembly Layer**

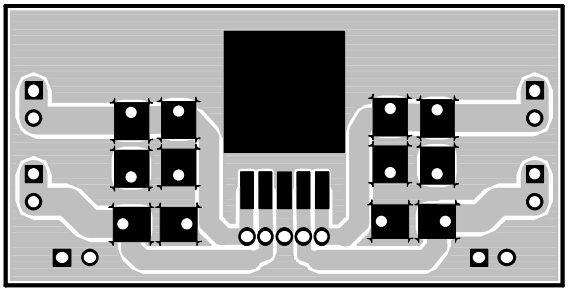


**Figure 2. Top Layer Routing**

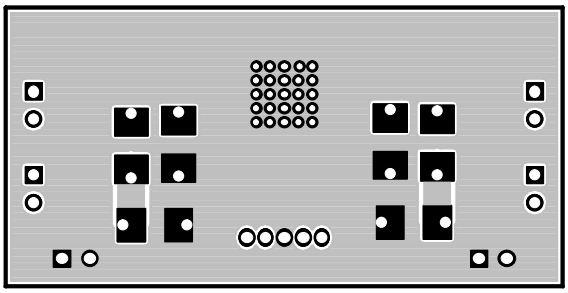


**Figure 3. Bottom Layer Routing**

## 3 Schematic

The circuit schematic in Figure 4 shows the connections for all possible components for the five lead TO263 and the five lead TO220 package. Depending on the LDO being evaluated, some components may be omitted.

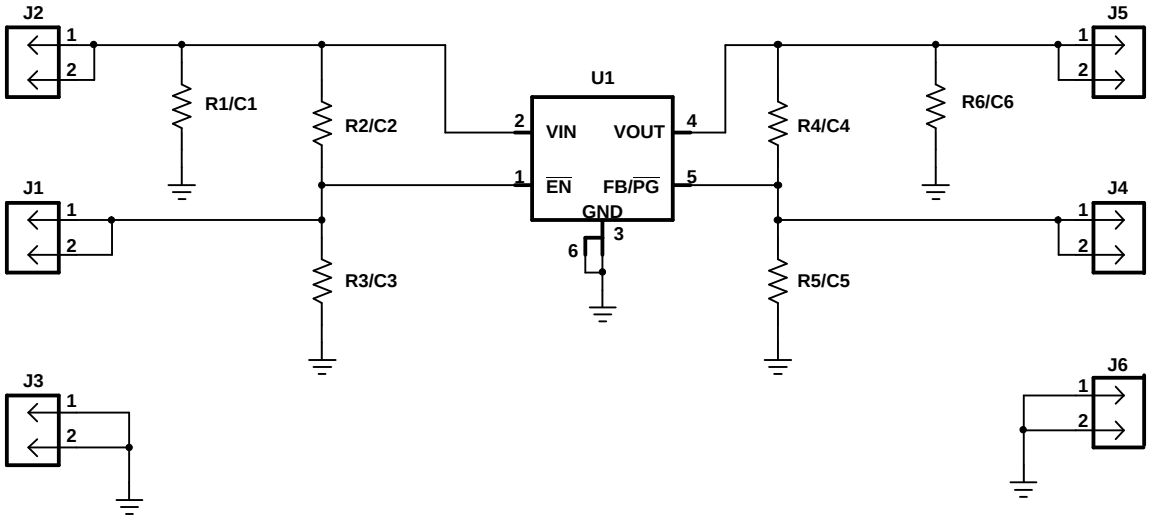



**Figure 4. DEM-TO263LDO Schematic**

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