

Universal Evaluation Board for Quad High Speed Op Amps Offered in 14-Lead TSSOP Packages

FEATURES

Enables quick breadboarding/prototyping

User-defined circuit configuration

Edge-mounted SMA connector provisions

Easy connection to test equipment and other circuits

GENERAL DESCRIPTION

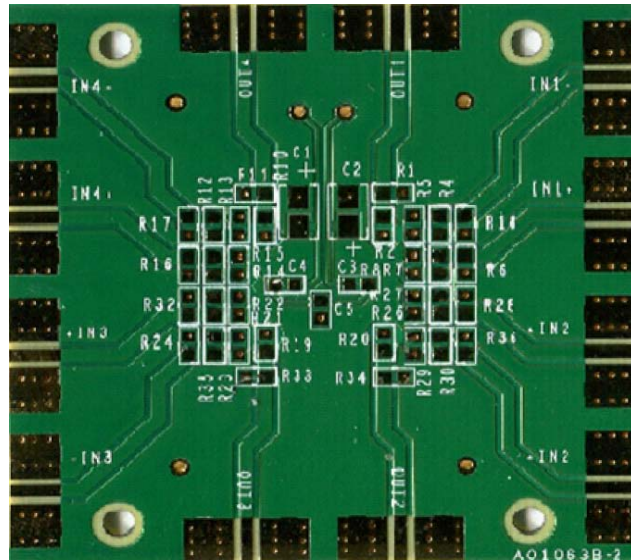
The Analog Devices, Inc., EB-O14RU-4Z universal evaluation board is designed to help users evaluate quad high speed op amps offered in 14-lead TSSOP packages. The EB-O14RU-4Z is a bare board (that is, there are no components soldered to the board) that enables users to quickly prototype a variety of quad op amp circuits, which minimizes risk and reduces time to

market. Figure 1 shows the circuit side and the component side of the evaluation board.

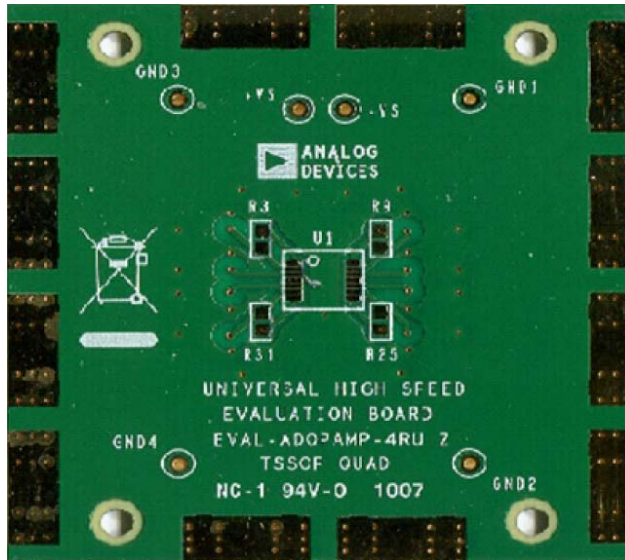
The evaluation board is a 2-layer PCB that accepts SMA edge-mounted connectors on the inputs and outputs for efficient connection to test equipment or other circuitry. The ground plane, component placement, and supply bypassing are designed to minimize parasitic inductances and capacitances. The evaluation board components are primarily SMT 0805 case size, with the exception of the electrolytic bypass capacitors (C1 and C2), which are 3528 case size.

Figure 2 shows the evaluation board schematic. The PCB layout pattern for the PCB is shown in Figure 4 and Figure 6.

DIGITAL PICTURE OF EVALUATION BOARD



CIRCUIT SIDE



COMPONENT SIDE

NOTES

1. THE EVALUATION BOARD SILKSCREEN PART NUMBER LABELING ON YOUR BOARD MAY BE DIFFERENT FROM WHAT IS SHOWN HERE.

Figure 1. EB-O14RU-4Z Component Side and Circuit Side of the PCB

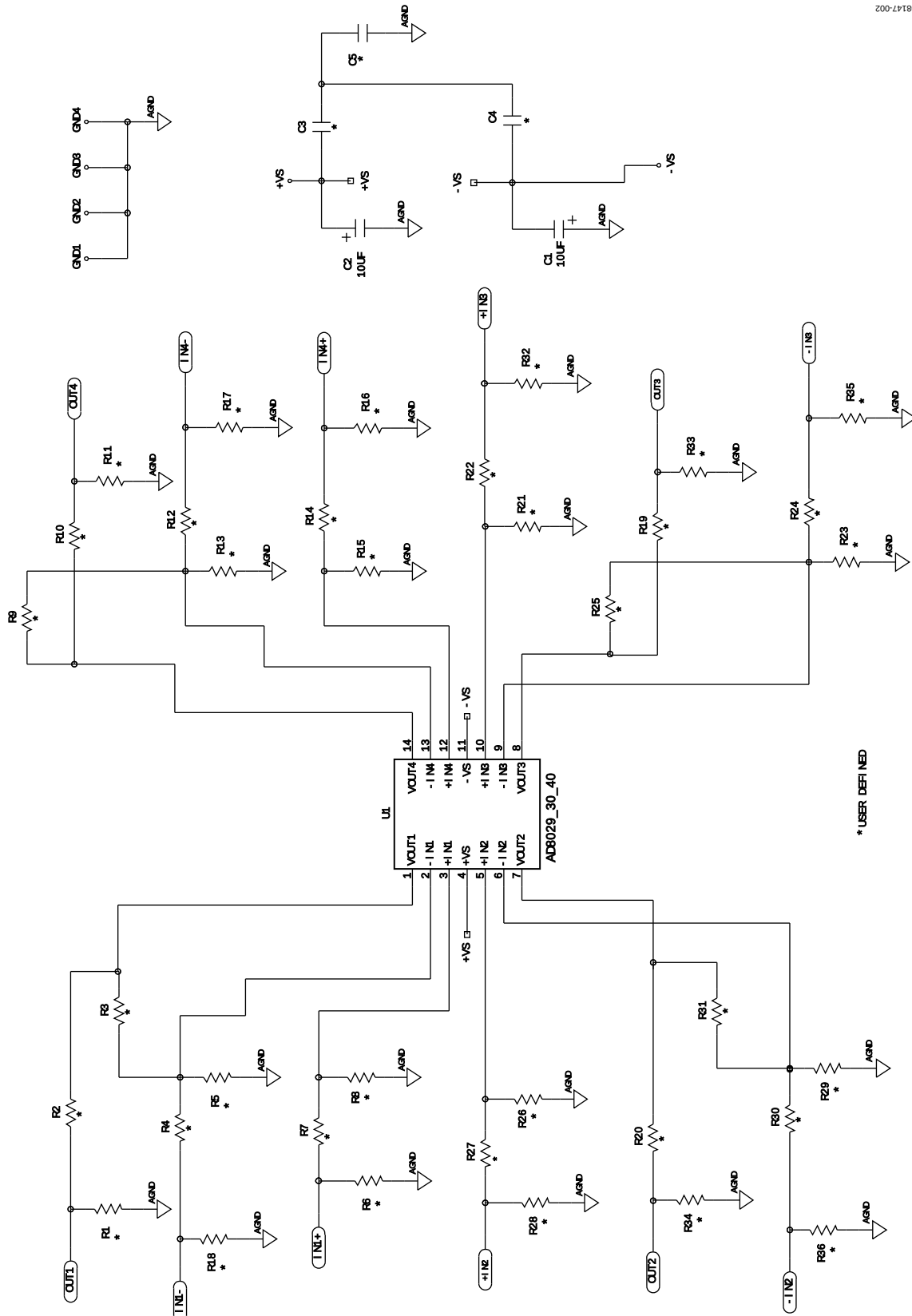


Figure 2. Universal Evaluation Board

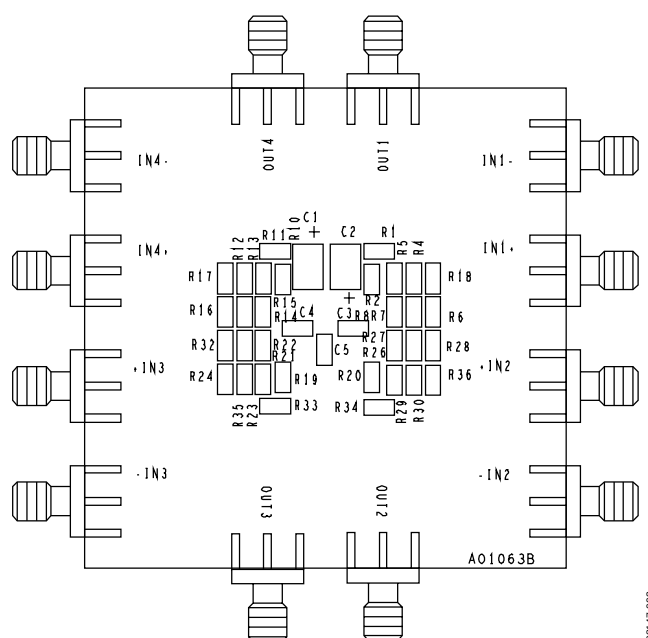


Figure 3. Board Assembly Drawing, Circuit Side

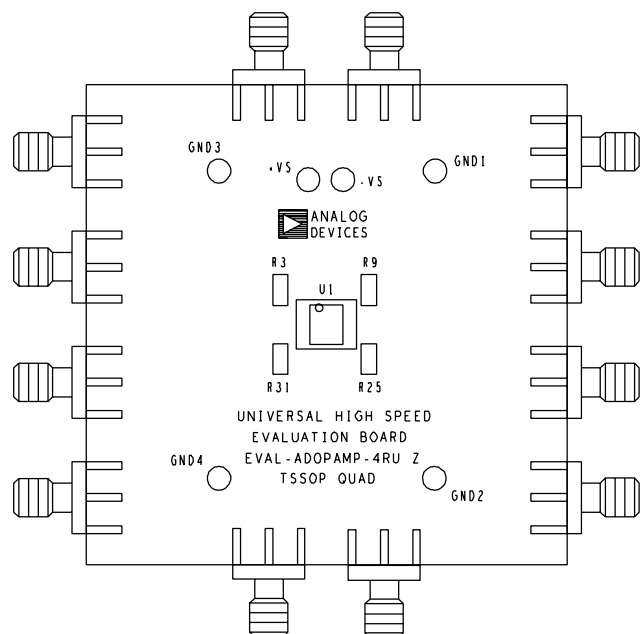


Figure 5. Board Assembly Drawing, Component Side

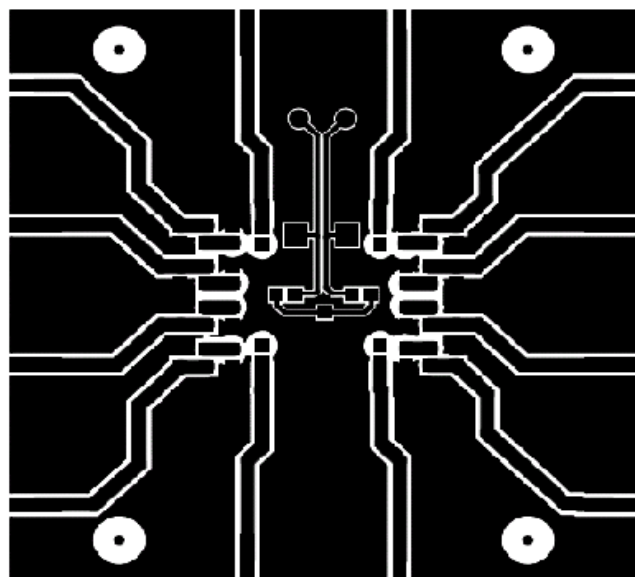


Figure 4. Board Layout Pattern, Circuit Side

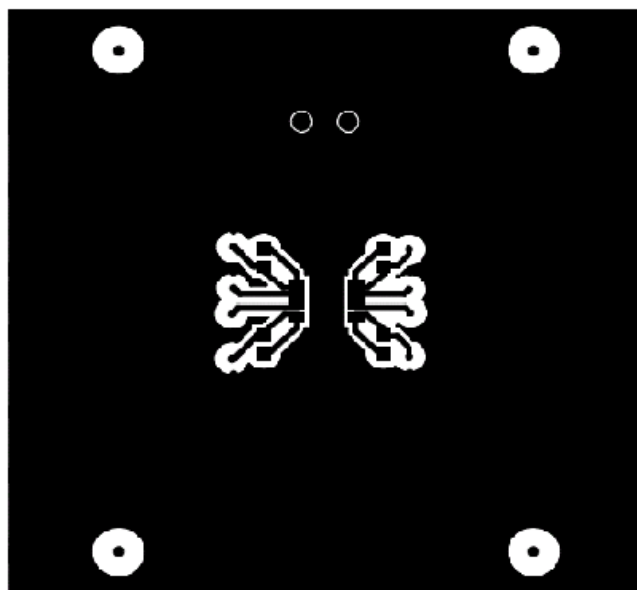


Figure 6. Board Layout Pattern, Component Side

NOTES

**ESD Caution**

ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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