

Universal Evaluation Board for Triple, 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
RoHS compliant

GENERAL DESCRIPTION

The Analog Devices, Inc., EB-O14RU-3Z universal evaluation board is designed to help users evaluate triple, high speed op amps offered in 14-lead TSSOP packages. The EB-O14RU-3Z is a bare board (that is, there are no components soldered to the board) that enables users to quickly prototype a variety of triple op amp circuits, which minimizes risk and reduces time to market. Figure 1 shows the component side of the bare evaluation board, and Figure 2 shows the circuit side of the bare evaluation board.

The 2-layer evaluation board 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 inductance and capacitance.

Figure 3 shows the evaluation board schematic. The PCB assembly drawings are shown in Figure 4 and Figure 5. The layout patterns for the PCB are shown in Figure 6 and Figure 7.

EVALUATION BOARD, COMPONENT SIDE AND CIRCUIT SIDE

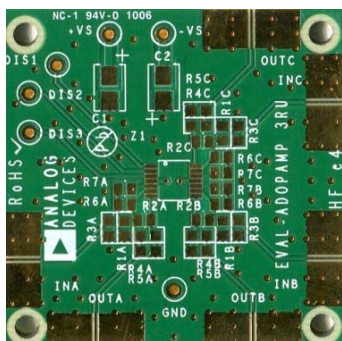


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REVISION HISTORY

4/10—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC, ASSEMBLY DRAWINGS, AND LAYOUT PATTERNS

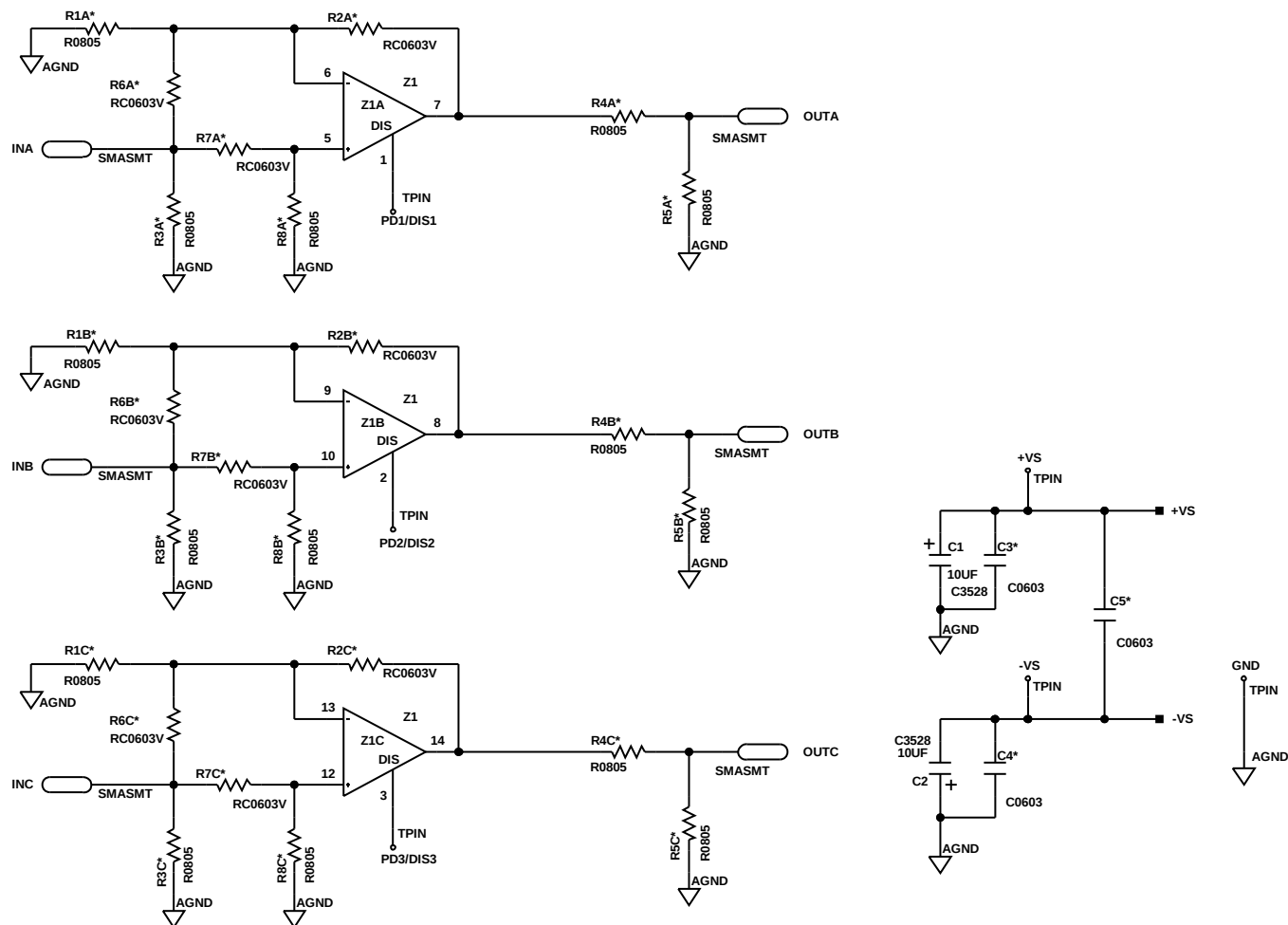


Figure 3. Universal Evaluation Board Schematic

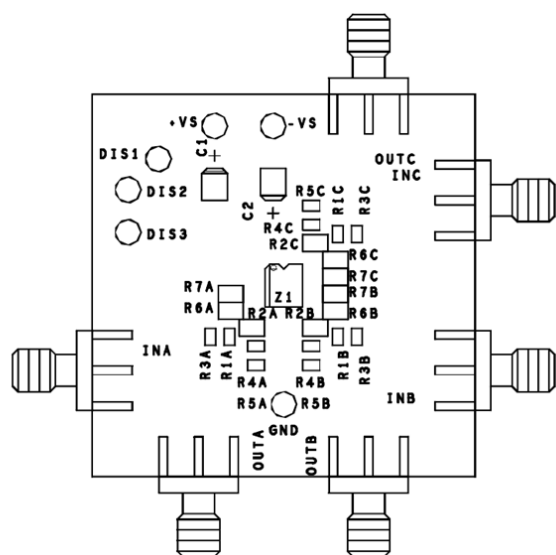


Figure 4. Component Side Assembly Drawing

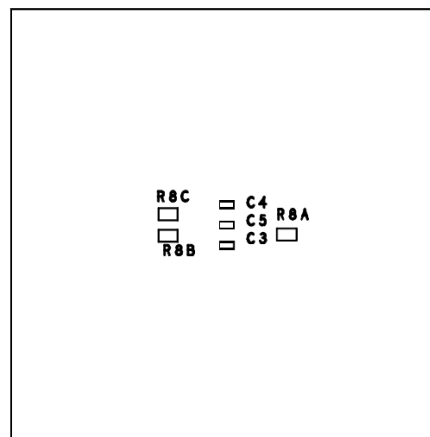


Figure 5. Circuit Side Assembly Drawing

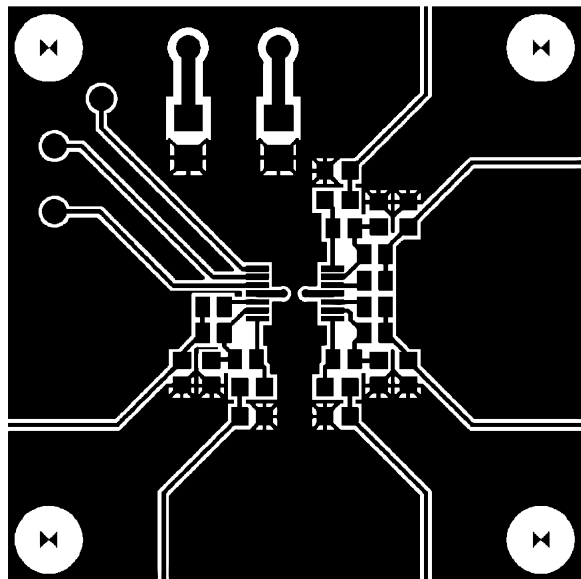


Figure 6. Component Side Layout Pattern

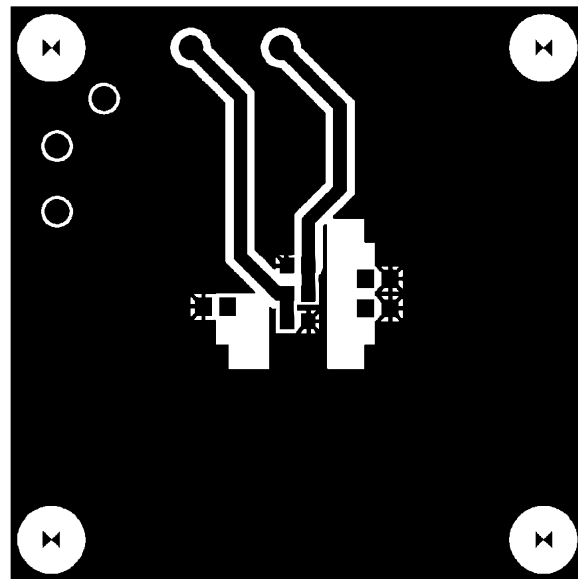


Figure 7. Circuit Side Layout Pattern

ORDERING INFORMATION

BILL OF MATERIALS

Table 1.

Quantity	Reference Designator	Description	Package
6	+VS, –VS, PD1/DIS1, PD2/DIS2, PD3/DIS3, GND	Connectors	TP1
2	C1, C2	10 μ F	3528
3	C3, C4, C5	Capacitor, user defined	C0603
6	INA, INB, INC, OUTA, OUTB, OUTC	SMA SMT	SMA SMT
15	R1A, R1B, R1C, R3A, R3B, R3C, R4A, R4B, R4C, R5A, R5B, R5C, R8A, R8B, R8C	Resistor, user defined	R0805
9	R2A, R2B, R2C, R6A, R6B, R6C, R7A, R7B, R7C	Resistor, user defined	R0603
1	DUT	Amplifier	14-lead TSSOP

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**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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