

Universal Evaluation Board for Triple, High Speed Op Amps Offered in 16-Lead LFCSP 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**

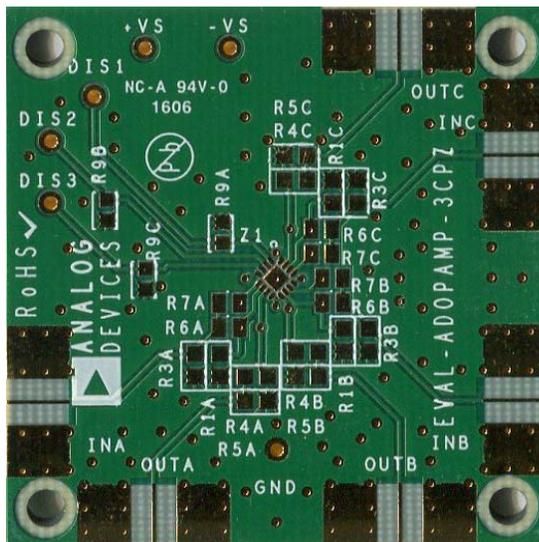
GENERAL DESCRIPTION

The Analog Devices, Inc., EB-O16CP-3Z universal evaluation board is designed to help users evaluate triple, high speed op amps offered in 16-lead LFCSP packages. The EB-O16CP-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 pattern for the PCB is shown in Figure 6 and Figure 7.

EVALUATION BOARD, COMPONENT SIDE AND CIRCUIT SIDE

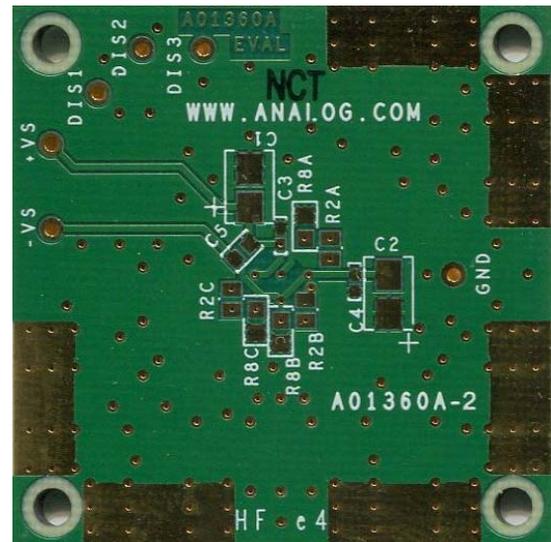


NOTES

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

08151-001

Figure 1. Component Side of Evaluation Board



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08151-002

Figure 2. Circuit Side of Evaluation Board

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REVISION HISTORY

4/10—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC, ASSEMBLY DRAWINGS, AND LAYOUT PATTERNS

000-15180

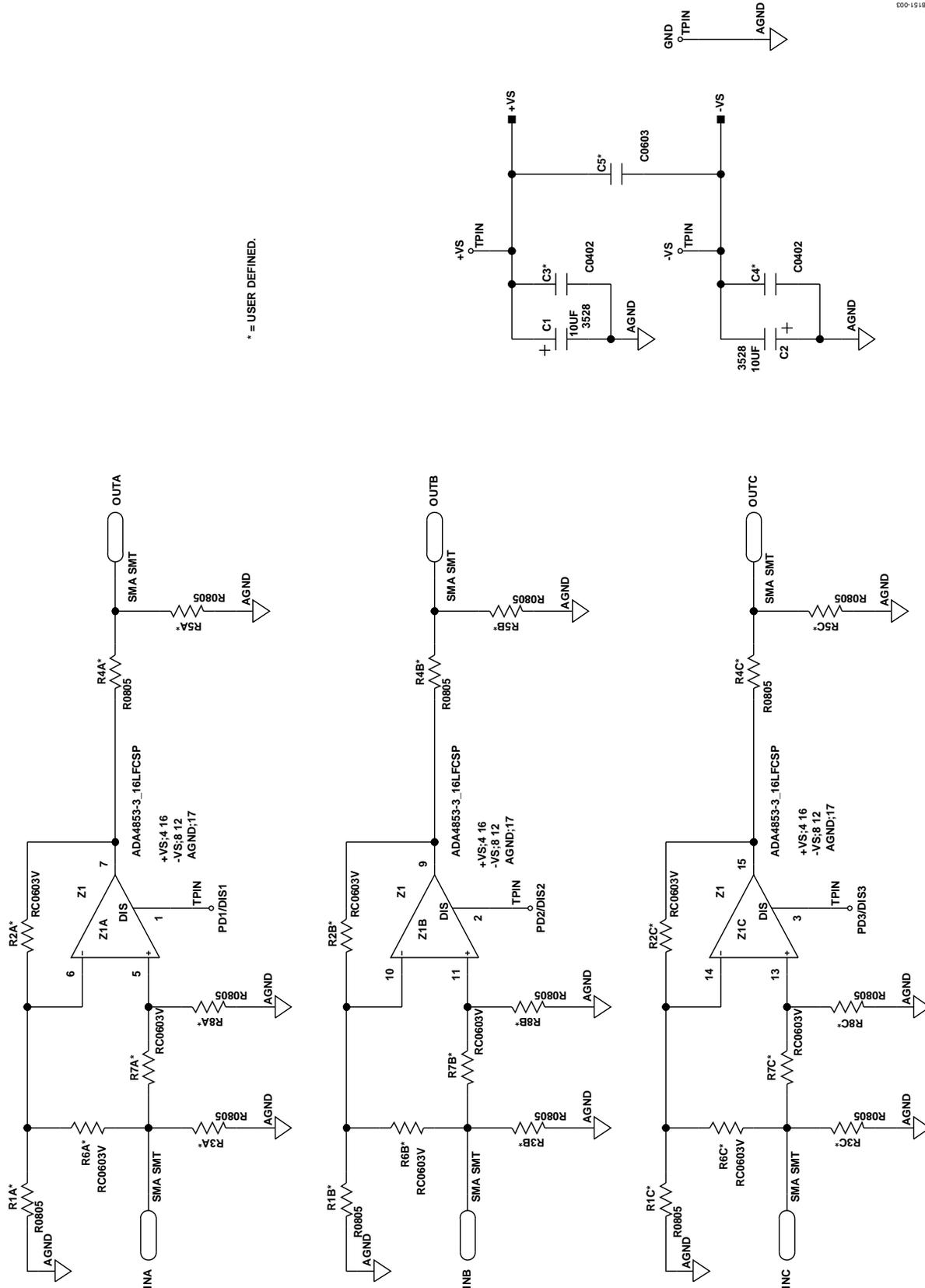


Figure 3. Universal Evaluation Board

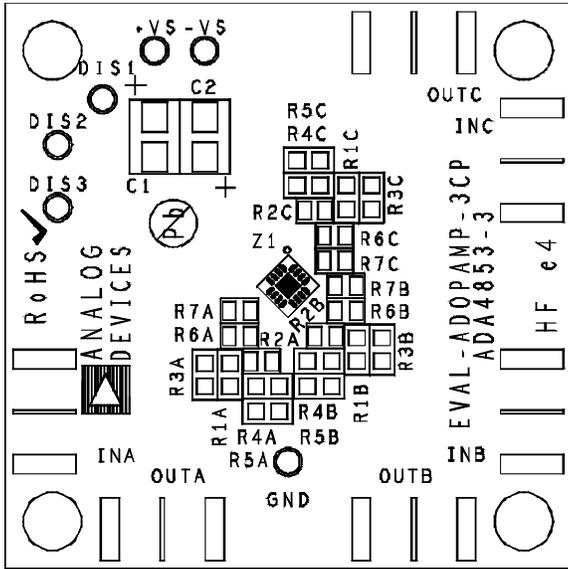


Figure 4. Component Side Assembly Drawing

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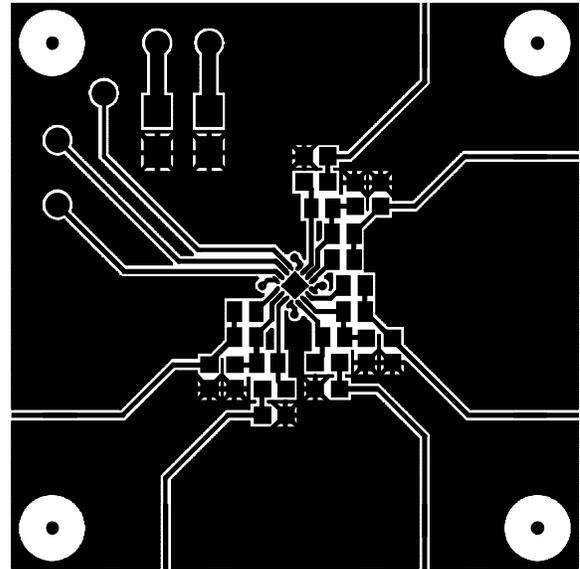


Figure 6. Component Side Layout Pattern

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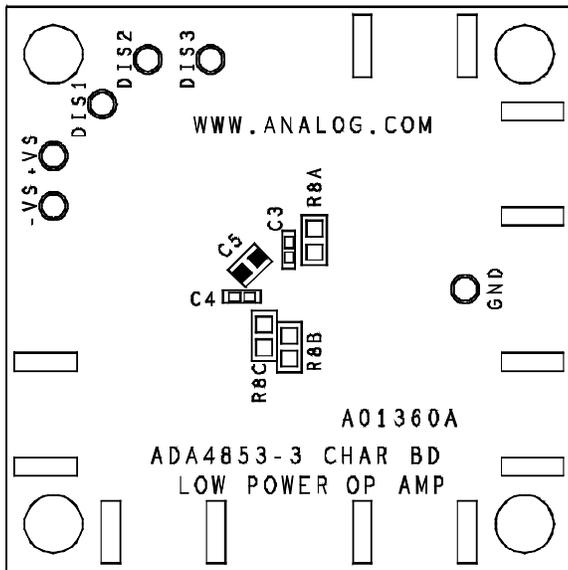


Figure 5. Circuit Side Assembly Drawing

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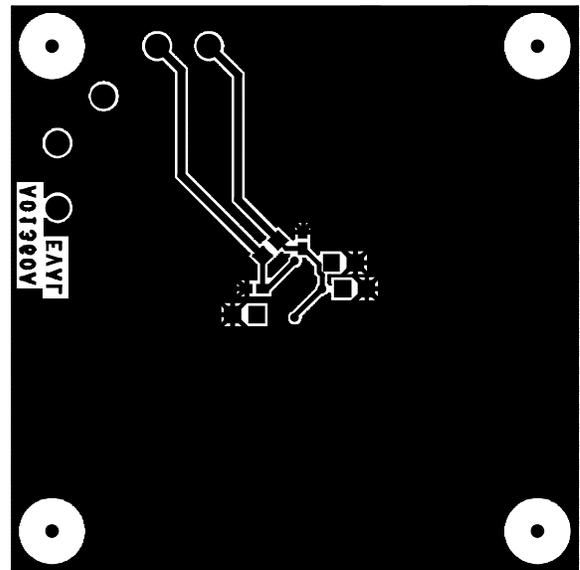


Figure 7. Circuit Side Layout Pattern

08151-007

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
2	C3, C4	Capacitor, user defined	C0402
1	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	LFCSP 16-lead

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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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