

## Evaluation Board for Single, High Speed Op Amps

### Offered in 5-Lead SC-70 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**

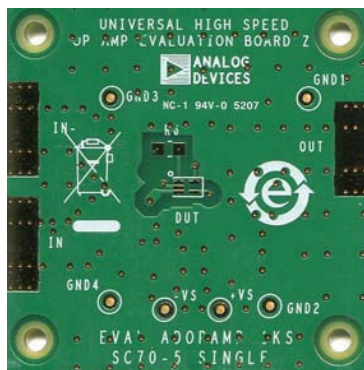
#### GENERAL DESCRIPTION

The Analog Devices, Inc., SC-70 evaluation board is designed to help users evaluate single, high speed op amps offered in 5-lead SC-70 packages. The evaluation board is a bare board (that is, there are no components or amplifier soldered to the board, these must be ordered separately) that enables users to quickly prototype a variety of single 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. The evaluation board components are primarily SMT 1206 case size, with the exception of the electrolytic bypass capacitors (C1 and C4), which are 3528 case size.

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 AND CIRCUIT SIDES

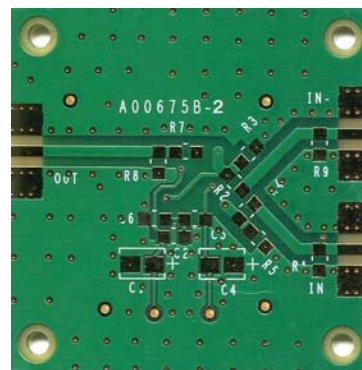


##### NOTES

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

Figure 1. Component Side of Evaluation Board

08951-001



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Figure 2. Circuit Side of Evaluation Board

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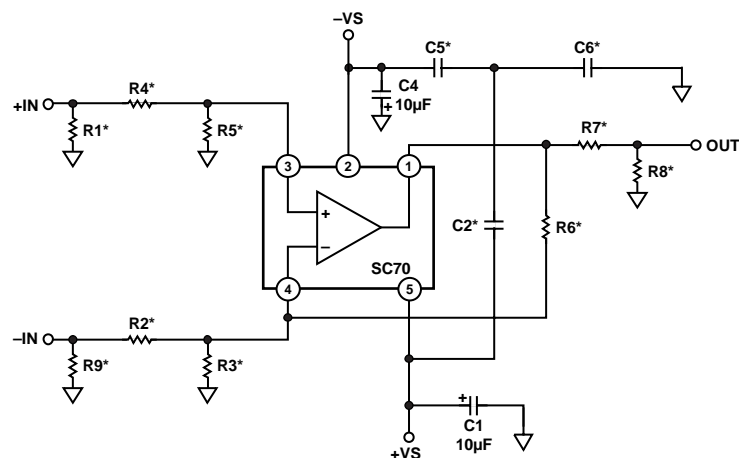
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REVISION HISTORY

<b>4/11—Rev. 0 to Rev. A</b>	
Changes to User Guide Title and General Description Section.	1
Changes to Figure 3 Captions .....	3
<b>4/10—Revision 0: Initial Version</b>	

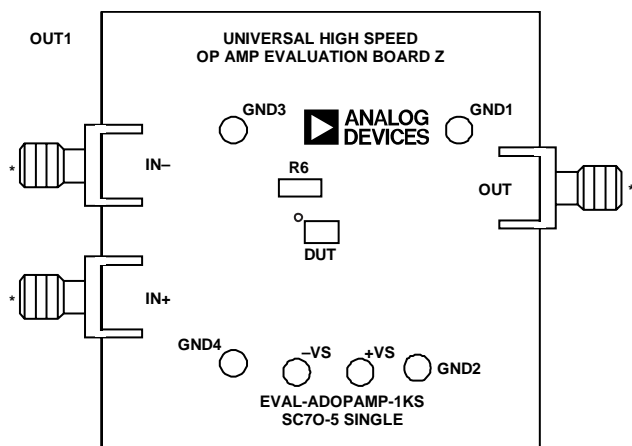
## EVALUATION BOARD SCHEMATIC, ASSEMBLY DRAWINGS, AND LAYOUT PATTERNS



\*USER-DEFINED VALUE

Figure 3. Evaluation Board Schematic

08951-003



\*SMA EDGE CONNECTOR JOHNSON COMPONENTS, INC. P/N 142-0701-831

Figure 4. Component Side Assembly Drawing

08951-004

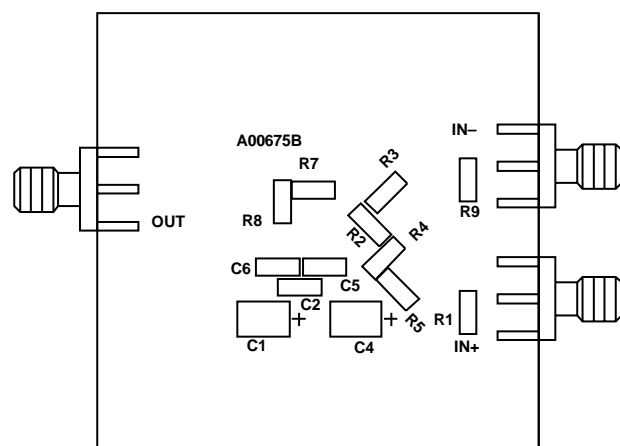


Figure 5. Circuit Side Assembly Drawing

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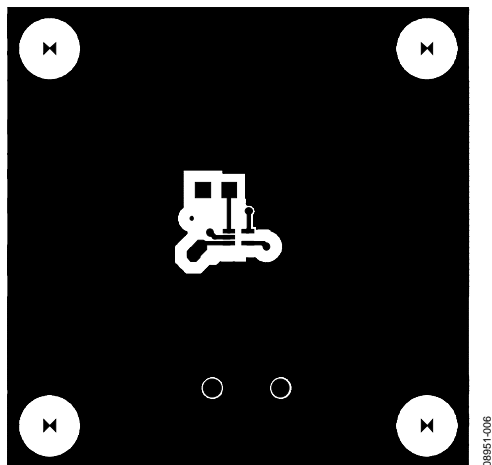


Figure 6. Component Side Layout Pattern

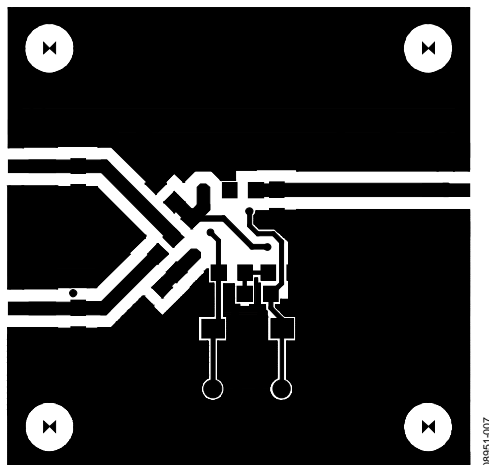


Figure 7. Circuit Side Layout Pattern

## ORDERING INFORMATION

### BILL OF MATERIALS

Table 1.

Quantity	Reference Designator	Description	Package
6	+VS, -VS, GND1 to GND4	Test point	TP1
2	C1, C4	10 $\mu$ F	3528
3	C2, C5, C6	Capacitor, user defined	C1206
3	IN+, IN-, OUT	SMA SMT	SMA SMT
9	R1 to R9	Resistor, user defined	R1206
1	DUT	Amplifier	SC70-5

**NOTES**

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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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