

Universal Evaluation Board for Dual High Speed Op Amps Offered in 10-Lead, 3 mm × 3 mm LFCSP

FEATURES

- Enables quick breadboarding/prototyping
- User defined circuit configuration
- Edge mounted subminiature version A (SMA) connector provisions
- Easy connection to test equipment and other circuits

GENERAL DESCRIPTION

The Analog Devices, Inc., dual lead frame chip scale packages (LFCSP) universal evaluation board is designed to help users evaluate dual high speed op amps offered in 10-lead, 3 mm × 3 mm LFCSP. The dual LFCSP board is a bare board (that is, there are no components soldered to the board) that enables users to quickly prototype a variety of dual op amp circuits, which minimizes risk and reduces time to market. Figure 1 and Figure 2 show the bare evaluation board, component side and solder side, respectively.

The evaluation board is a 2-layer printed circuit board (PCB) that accepts SMA edge mounted connectors on the inputs and outputs for efficient connection to test equipment or other circuitry. The evaluation board components are primarily surface-mount technology (SMT) 0603 case size, with the exception of the electrolytic bypass capacitors (C1 and C3), which are 3528 case size.

Figure 3 shows the evaluation board schematic. The bill of materials is listed in Table 1.

EVALUATION BOARD LAYOUT PATTERN

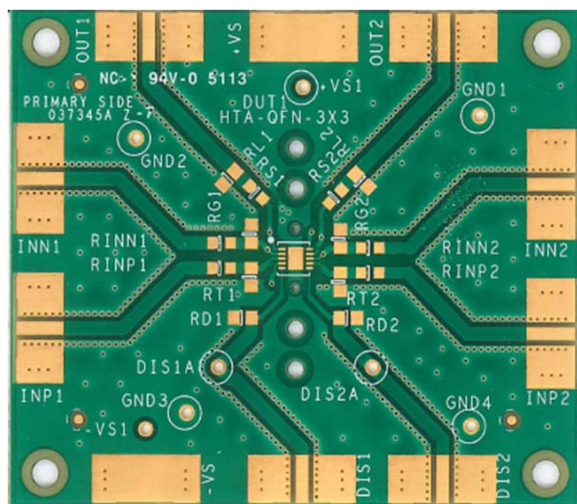


Figure 1. Evaluation Board, Component Side

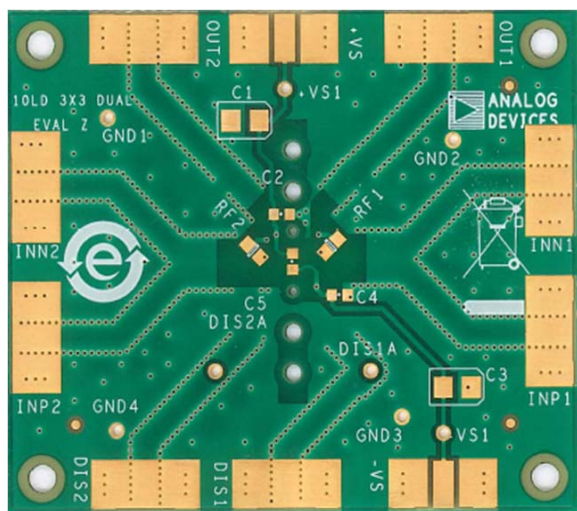


Figure 2. Evaluation Board, Solder Side

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REVISION HISTORY

12/14—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC

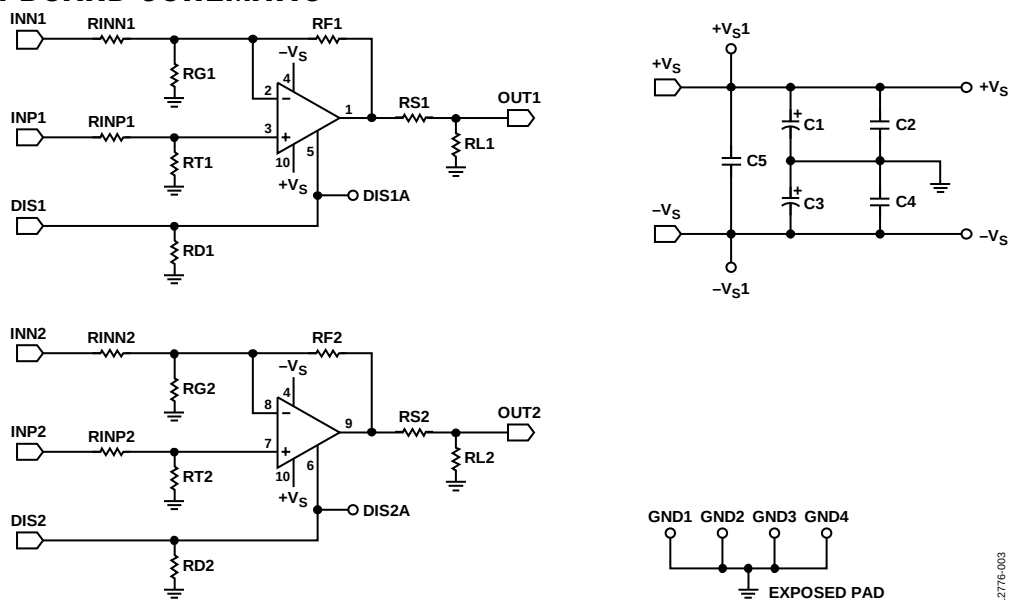


Figure 3. Dual 10-Lead LFCSP Evaluation Board Schematic

ORDERING INFORMATION

BILL OF MATERIALS

Table 1.

Quantity	Reference Designator	Description	Package
10	+V _S , -V _S , DIS1, DIS2, INN1, INN2, INP1, INP2, OUT1, OUT2	SMA end launch connector	SMA
2	C1, C3	10 μ F tantalum capacitor	C3528
3	C2, C4, C5	Capacitor, user defined	C0603
1	DUT	See data sheet packaging information	10-lead, 3 mm $\times$ 3 mm LFCSP
8	+V _{S1} , -V _{S1} , DIS1A, DIS2A, GND1, GND2, GND3, GND4	Test point/vector pin	
16	RD1, RD2, RF1, RF2, RG1, RG2, RL1, RL2, RS1, RS2, RT1, RT2, RINN1, RINN2, RINP1, RINP2	Resistor, user defined	R0603

**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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