

Evaluating the **ADA4806-1** 0.2 $\mu\text{V}/^\circ\text{C}$ Offset Drift, 105 MHz Low Power, Multimode, Rail-to-Rail Amplifier Offered in an 8-Lead SOT-23

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., **ADA4806-1RJ-EBZ** evaluation board is designed to help users evaluate the **ADA4806-1** low power, multimode, rail-to-rail amplifier, offered in an 8-lead SOT-23 package. The **ADA4806-1RJ-EBZ** is a bare board (that is, there are no components soldered to the board) that enables users to quickly prototype a variety of op amp circuits. Figure 1 and Figure 2 show the bare evaluation board, component side and solder side, respectively.

The **ADA4806-1RJ-EBZ** 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 **ADA4806-1RJ-EBZ** evaluation board components are primarily surface-mount technology (SMT) 0603 case size, with the exception of the electrolytic bypass capacitors (C1 and C2) which are 3528 case size.

Figure 3 shows the evaluation board schematic, and the bill of materials are listed in Table 1.

EVALUATION BOARD LAYOUT PATTERNS

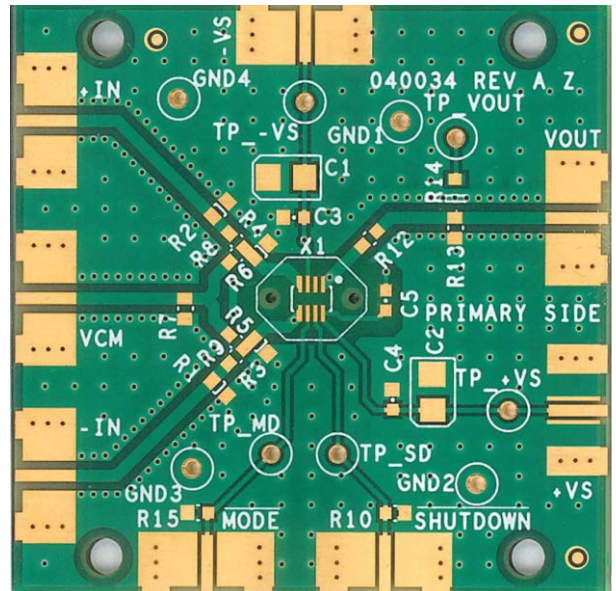


Figure 1. **ADA4806-1RJ-EBZ** Evaluation Board, Component Side

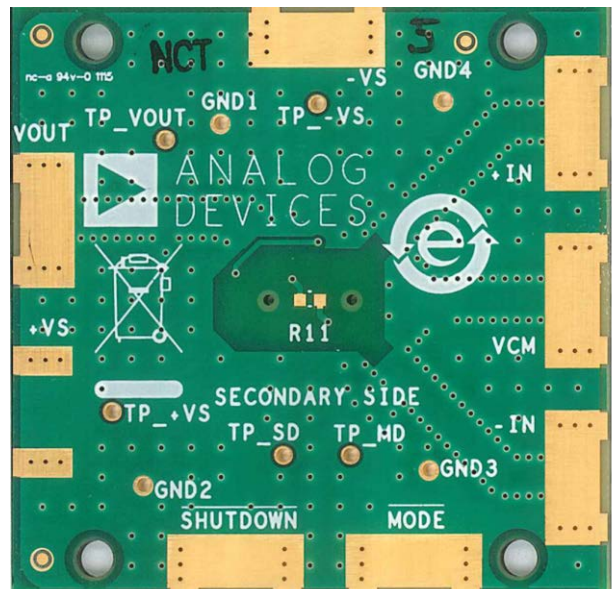


Figure 2. **ADA4806-1RJ-EBZ** Evaluation Board, Solder Side

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REVISION HISTORY

9/15—Revision 0: Initial Version

EVALUATION BOARD SCHEMATIC

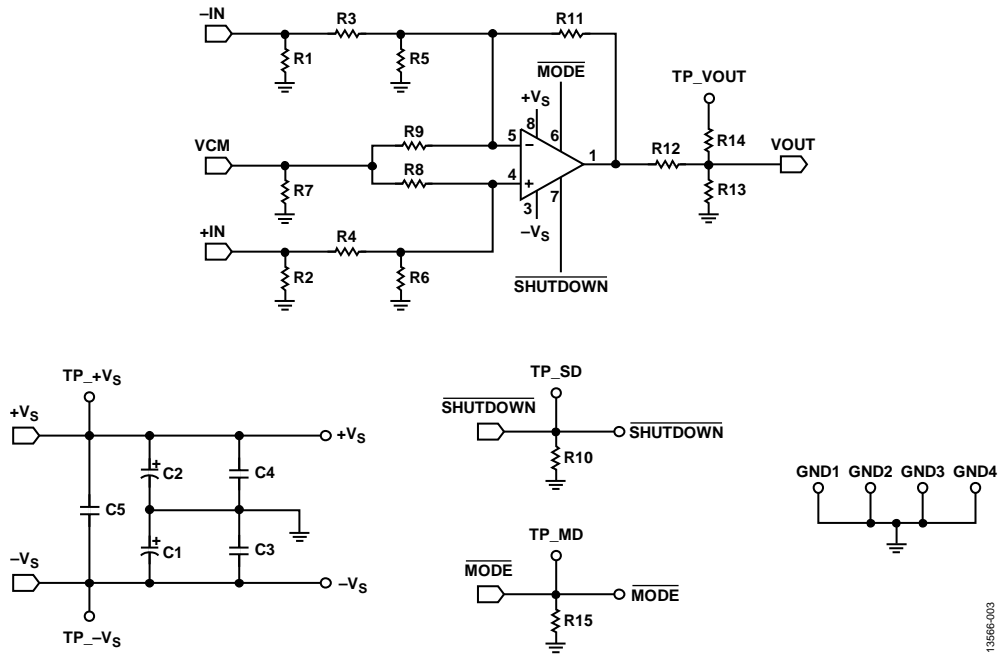


Figure 3. ADA4806-1RJ-EBZ Evaluation Board Schematic

13566-003

ORDERING INFORMATION

BILL OF MATERIALS

Table 1.

Quantity	Reference Designator	Description	Package
8	+Vs, -Vs, +IN, -IN, VCM, MODE, VOUT, SHUTDOWN	SMA end launch connectors	SMA
2	C1, C2	10 μ F tantalum capacitors	C3528
3	C3, C4, C5	0.1 μ F ceramic capacitors, X7R	C0603
1	ADA4806-1	0.2 μ V/ $^{\circ}$ C offset drift, 105 MHz low power, multimode, rail-to-rail amplifier	8-lead SOT-23
9	TP_+Vs, TP_-Vs, TP_VOUT, TP_MD, TP_SD, GND1, GND2, GND3, GND4	Test points/vector pins	
14	R1 to R13, R15	Resistors, user defined	R0603
1	R14	Resistor, user defined	R1206

**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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