

BOARD DESCRIPTION

The AD8302 evaluation board has been carefully laid out and tested to demonstrate the specified high speed performance of the device.

ORDERING GUIDE

Model	Package Description
AD8302-EVAL	Evaluation Board

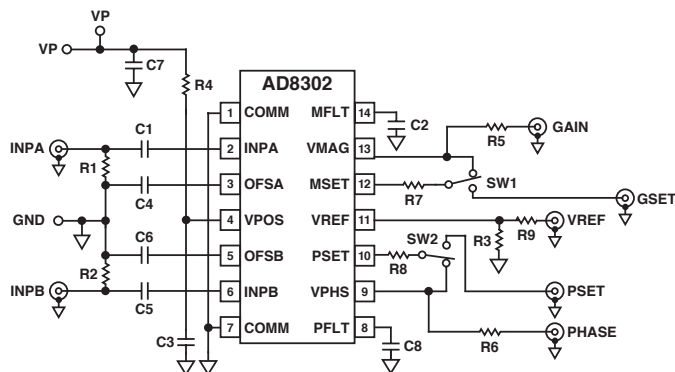


Figure 1. Evaluation Board Schematic

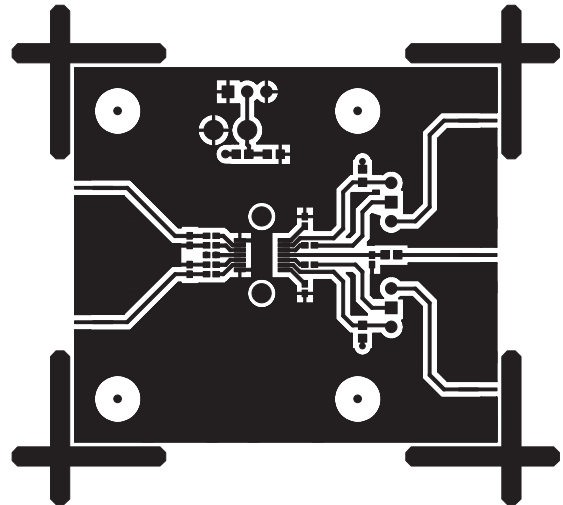


Figure 2. Component Side Metal of Evaluation Board

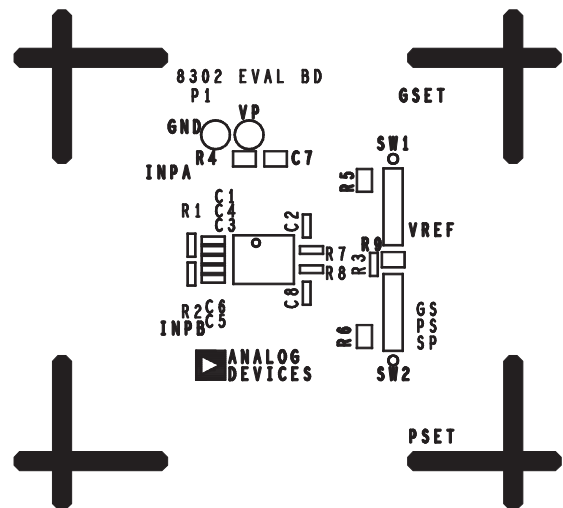


Figure 3. Component Side Silkscreen of Evaluation Board

CAUTION

ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 V readily accumulate on the human body and test equipment and can discharge without detection. Although the EVAL-AD8302EB features proprietary ESD protection circuitry, permanent damage may occur on devices subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid performance degradation or loss of functionality.



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EVAL-AD8302EB

Table I. Evaluation Board Configuration Options

Component	Function	Default Condition
P1	Power Supply and Ground Connector: Pin 2 VPOS and Pins 1 and 3 Ground	Not Applicable
R1, R2	Input Termination. Provide termination for input sources.	R1 = R2 = 52.3 Ω (Size 0402)
R3	VREF Output Load. This load is optional and is meant to allow the user to simulate their circuit loading of the device.	R3 = 1 k Ω (Size 0603)
R5, R6, R9	Snubbing Resistor	R5 = R6 = 0 Ω (Size 0603) R9 = 0 Ω (Size 0603)
C3, C7, R4	Supply Decoupling	C3 = 100 pF (Size 0603) C7 = 0.1 μ F (Size 0603) R4 = 0 Ω (Size 0603)
C1, C5	Input AC-Coupling Capacitors	C1 = C5 = 1 nF (Size 0603)
C2, C8	Video Filtering. C2 and C8 limit the video bandwidth of the gain and phase output respectively.	C2 = C8 = Open (Size 0603)
C4, C6	Offset Feedback. These set the high-pass corner of the offset cancellation loop and thus, with the input ac-coupling capacitors, the minimum operating frequency.	C4 = C6 = 1 nF (Size 0603)
SW1	GSET Signal Source. When SW1 is in the position shown, the device is in gain measure mode; when switched, it operates in comparator mode and a signal must be applied to GSET.	SW1 = Installed
SW2	PSET Signal Source. When SW2 is in the position shown, the device is in phase measure mode; when switched, it operates in comparator mode and a signal must be applied to PSET.	SW1 = Installed

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