

MAXIM

MAX662A Evaluation Kit

Evaluates: MAX662A

General Description

The MAX662A evaluation kit (EV kit) is an assembled surface-mount board that allows easy evaluation of the MAX662A or MAX662. The EV kit schematic is the standard circuit shown in Figure 3a on page 5 of the MAX662A data sheet. A 3-pin jumper connector and a shunt are included to allow easy control of normal-operation and shutdown modes.

Ordering Information

PART	TEMP. RANGE	BOARD TYPE
MAX662AEVKIT-SO	0°C to +70°C	Surface Mount

Component List

DESIGNATION	QTY	DESCRIPTION
C1, C2	2	0.22 μ F ceramic SMD chip capacitors
C3	1	0.1 μ F ceramic SMD chip capacitor (MAX662 only)
C4, C5	2	4.7 μ F low-ESR tantalum capacitors
J1	1	3-pin jumper
None	1	Shunt
U1	1	MAX662ACSA
None	1	MAX662A data sheet
None	1	1.5" x 1.1" PC board

Operating Instructions

Pin 1 of the 3-pin jumper connector is tied to ground, pin 2 is tied to the SHDN pin of the MAX662A, and pin 3 is tied to VCC (Figure 1). Connect the jumper shunt across pins 1 and 2 of jumper connector J1 for normal operation. **Note: The MAX662A EV kit will be in shutdown mode if the jumper shunt is not inserted across J1. The SHDN pin has an internal pull-up to VCC, and therefore must be connected to ground for proper operation.** Connect the jumper shunt across jumper connector pins 2 and 3, or simply remove the jumper shunt to observe shutdown-mode operation.

Observe the power-supply input voltage limits specified in the data sheet. Do not short the output to ground. Also, do not excessively load the output—VOUT should not fall below VCC. If the above conditions are violated, the device may be damaged.

PC Board Layout

The EV kit printed circuit board layouts (Figures 2 and 3) can be copied directly and incorporated into production boards.

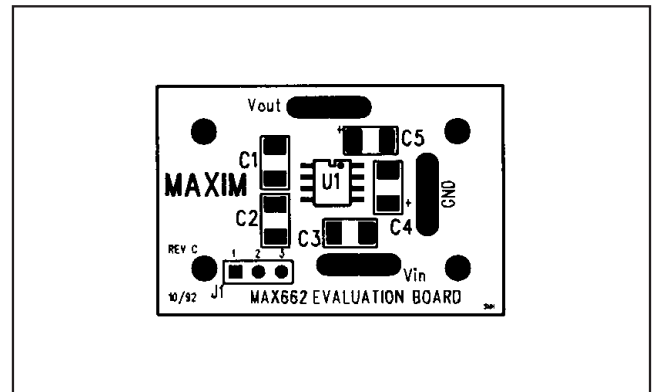


Figure 1. MAX662A EV Kit Surface-Mount Component Placement Diagram (1x scale)

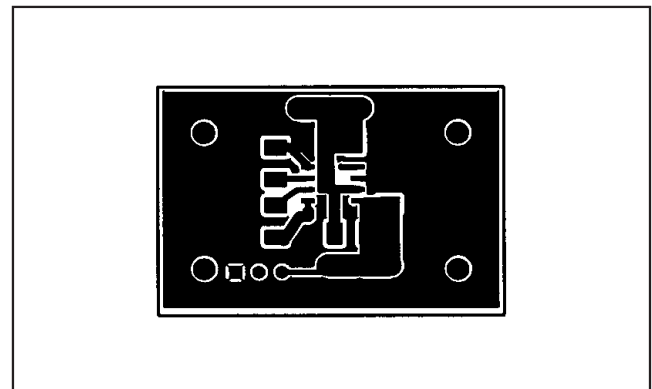


Figure 2. MAX662A EV Kit PC Board Layout—Component Side (1x scale)

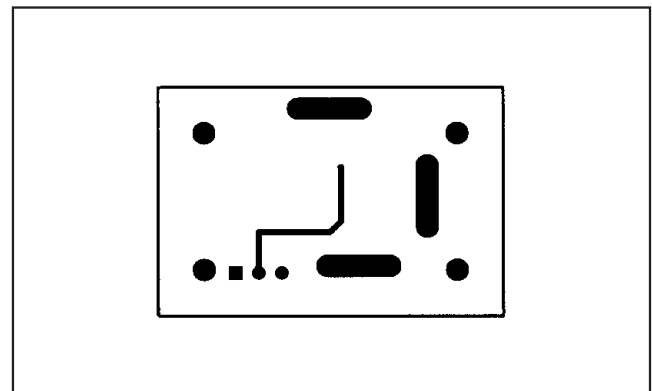


Figure 3. MAX662A EV Kit PC Board Layout—Solder Side (1x scale)