

## Evaluates: MAX98360A/MAX98360B/ MAX98360C/MAX98360D (WLP)

## MAX98360 Evaluation Systems

### General Description

The MAX98360 Evaluation Systems (EV Systems) are fully assembled and tested systems that evaluate the MAX98360A/B/C/D mono Class D audio amplifiers. The EV Systems consist of a MAX98360 Development Board (DEV Board), Maxim's Audio Interface Board III (AUDINT3), and a USB cable.

It is recommended that the DEV Board be evaluated with the AUDINT3 board, as an EV System. MAX98360A and MAX98360C support the standard I<sup>2</sup>S interface, and MAX98360B and MAX98360D support standard left-justified mode. All MAX98360 variants support an 8-channel TDM digital audio interface.

The AUDINT3 board provides the USB-to-PCM interface in addition to the 1.8V V<sub>DDIO</sub> supply needed to evaluate the DEV Board. The MAX98360 DEV Board requires one additional supply input, 2.5V–5.5V (V<sub>DD</sub>) when evaluating using the AUDINT3 board. [Figure 1](#) details the DEV Board and the AUDINT3 board.

### Features

- 2.5V to 5.5V Single-Supply Operation
- I<sup>2</sup>S, Left-Justified, or TDM Input
- Five Selectable Gains (–3dB, 3dB, 6dB, 9dB, and 12dB)
- Audio Channel Select (Left, Right, and Mono Mix)
- Filterless Operation
- Low EMI
- Complete Hardware System with Easy Setup, No Tools or Special Software Required

### EV System Contents

- MAX98360 Development Board
- Audio Interface Board III
- Micro-USB Cable

[Ordering Information](#) appears at end of data sheet.

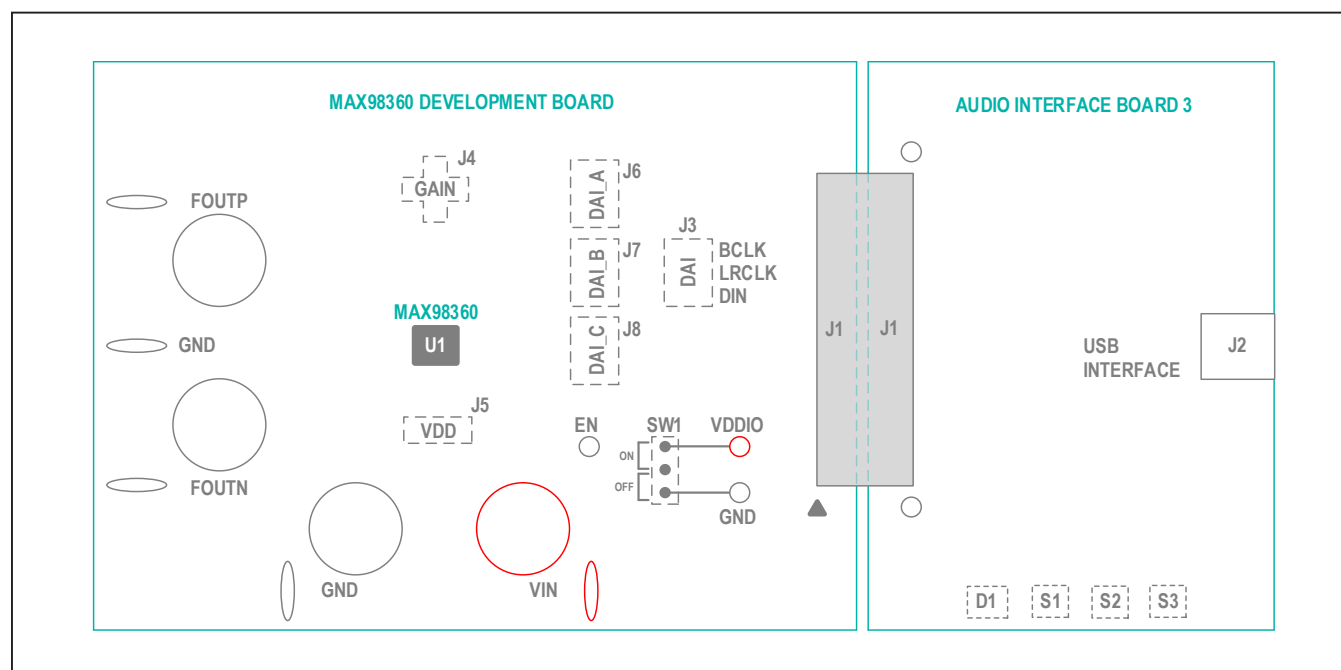


Figure 1. Simplified EV System Block Diagram

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### Quick Start Guide

#### Required Equipment

- MAX98360 EV System
  - Audio Interface Board III
  - 2.5V to 5.5V, 3A DC power supply
  - Micro-USB cable
- 4Ω to 8Ω speaker
- USB audio source (e.g., Windows Media Player® or iTunes®)
- User-supplied Windows 7 or Windows 10 PC with available USB port

#### Reference Material

- MAX98360 IC data sheet

#### Procedure

The MAX98360 and AUDINT3 boards are fully assembled and tested. Follow the steps below to set up the EV System for device evaluation.

#### AUDINT3 Board Setup:

- 1) Connect the MAX98360 DEV Board (2 row J1 connector) to the AUDINT3 board (3 row J1 connector). The bottom row of both J1 connectors should be lined up so the standoffs on the corners of the AUDINT3 and DEV Board are level.
- 2) With the audio source disabled, connect the USB cable from your computer to the USB port (J2) on the AUDINT3 board. The AUDINT3 board will provide the BCLK and LRCLK signals as well as the power for V<sub>DDIO</sub>, sourcing 1.8V to the DEV Board through the J1 connector.

- 3) The multi-color LED D1 will blink white. When the computer registers the AUDINT3 as a USB device D1 will change to magenta and blink slowly.

#### DEV Board Setup:

- 1) With all supplies unpowered, connect the 2.5V to 5.5V power supply across the VIN and GND binding posts.
- 2) Connect the micro speaker leads across the FOUTP and FOUTN binding posts.
- 3) Place the shunt on jumper J5 across pins V<sub>DD</sub> and V<sub>IN</sub>.
- 4) Set the switch SW1 to the on position.

#### Test:

- 1) Enable the supply voltages across each of the supply pins.
- 2) Open the Windows' **Sound** dialog and select the **Playback** tab. A **Speakers** item similar to [Figure 2](#) should be listed as an available playback device.
- 3) Verify that the **Speakers** item is set as the default device. Once this is done, the AUDINT3 board will output PCM data to the DIN pin on the DEV Board.
- 4) Adjust the audio source volume to a low level.
- 5) Enable the audio source and verify that audio is heard through the connected speaker. Adjust the audio source volume as needed.
- 6) Quick Start of the Evaluation Software is now complete.



Figure 2. Playback Device

Windows is a registered trademark and registered service mark of Microsoft Corporation.

## MAX98360 Evaluation Systems

### Detailed Description of Hardware

The MAX98360 EV System is designed to allow for a thorough evaluation of the MAX98360 digital input Class D audio amplifier IC. The EV System includes the MAX98360 development board (DEV Board), Maxim's Audio Interface Board III (AUDINT3), and a Micro-USB cable.

The MAX98360 DEV Board can be evaluated as a stand-alone board that is driven directly by audio test equipment. To simplify the evaluation, the DEV Board can be evaluated with the AUDINT3 board, which allows any computer to become a digital audio source. The AUDINT3 board provides on-board LDO regulators and a USB-to-PCM interface to provide an easy-to-use method for exercising the capabilities of the device with no additional audio equipment.

The AUDINT3 LDO regulators power the MAX98360 DEV Board's  $V_{DDIO}$  pin through connector J1. The USB-to-PCM converter accepts a USB audio stream from a USB connected computer and converts that into an I2S (MAX98360A/C) or left-justified (MAX98360B/MAX98360D) data stream, allowing for USB audio playback through the MAX98360 device. Do not use the AUDINT3 board while directly driving the DEV Board's PCM interface with external audio test equipment since the Digital Audio Interface (DAI) pins for the DEV Board and AUDINT3 are connected through the J1 header.

### Power Supplies

The MAX98360 DEV Board requires two external power supplies when evaluated as a stand-alone board. The  $V_{DD}$  supply provides system power to the MAX98360 IC. This voltage can be applied externally at the VIN and GND PCB pads, or 5V can be provided from the AUDINT3 board. See [Table 2](#) for the J5 jumper selection. The 5V supply from the AUDINT3 board should be used only for functionality tests and should not be used when driving a speaker load due to the low current limit of the on-board 5V supply.

The voltage applied to the  $V_{DDIO}$  test point determines the logic level of the EN pin when SW1 is in the on position. The power supplies and their ranges are listed in [Table 1](#). The external supply voltages can be connected at the respective supply test-points and/or binding posts.

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When using the AUDINT3 board, the AUDINT3's on-board LDO regulator will independently power  $V_{DDIO}$  on the DEV Board. This power is routed to the DEV Board through the J1 connector. Refer to the Digital Audio Interface section.

### Jumper Selection

#### Shutdown Mode

The DEV Board includes switch SW1 to facilitate a device enable. The device features a low-power shutdown mode that is activated by setting SW1 in the "OFF" position. To exit shutdown mode, set SW1 to the "ON" position. When the PCM master is disabled and SW1 is in the "ON" position, the device is in standby mode. Enabling the PCM interface while SW1 is in the "ON" position puts the device in active playback mode, and the device output will begin switching.

**Table 1. Power Supplies**

| POWER SUPPLY | RANGE (V)        |
|--------------|------------------|
| $V_{DD}$     | 2.5V to 5.5V     |
| $V_{DDIO}$   | 1.2V to $V_{DD}$ |

**Table 2. J5 Jumper Selection ( $V_{DD}$ ) Supplies**

| SHUNT POSITION | INPUT VOLTAGE ( $V_{DD}$ )                                     |
|----------------|----------------------------------------------------------------|
| 1-2            | $V_{DD}$ supplied by AUDINT3 board connected to J1 header      |
| 2-3            | User-supplied external power supply applied at the VIN PCB pad |

**Table 3. Jumper Configuration**

| HEADER | SHUNT POSITION | DESCRIPTION      |
|--------|----------------|------------------|
| SW1    | EN to DVDDIO   | Normal operation |
|        | EN to GND      | Shutdown         |

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## Gain and Channel Selection (I2S/Left-Justified Mode)

The MAX98360's GAIN\_SLOT pin is connected to the center pin (pin 1) of the J4 header. When operating the device in I2S or left-justified mode, shunting pin 1 to the adjacent pins of the J4 header controls the PCM gain. [Table 3](#) shows the available gain settings in I2S and left-justified modes.

In I2S and left-justified modes, channel selection is controlled by placing three shunts across the DAI configuration headers J6, J7, or J8. Each of the DAI configuration headers represent one valid mapping of the DAI pins to the PCM input signals. See [Table 4](#) for the valid jumper settings for the DAI configuration headers. Only one DAI configuration may be used at a time. [Figure 3](#) shows the shunt positions used for DAI Configuration A.

## Channel Selection (TDM Mode)

In TDM mode, the MAX98360 has a fixed gain of 12dB and the GAIN\_SLOT pin becomes repurposed for TDM channel selection. The MAX98360 accepts 8-channel TDM data with either 16-bit or 32-bit data. The GAIN\_SLOT pin and DAI configuration are used to select which of the 8 channels of TDM data the part responds to, as shown in [Table 6](#).

Table 4. J4 Jumper Selection  
(GAIN\_SLOT)

| J4 SHUNT POSITION | GAIN_SLOT                                              | GAIN |
|-------------------|--------------------------------------------------------|------|
| 1-2               | Connected to V <sub>DD</sub> through 100kΩ resistor R1 | 3dB  |
| 1-3               | Connected to V <sub>DD</sub>                           | 6dB  |
| 1-4               | Connected to GND through 100kΩ resistor R2             | -3dB |
| 1-5               | Connected to GND                                       | 12dB |
| Not Installed     | Unconnected                                            | 9dB  |

Table 5. J6-J8 Header Selection  
(DAI Configuration)

| DAI CONFIGURATION | SHUNT HEADER | I2S/LJ CHANNEL |
|-------------------|--------------|----------------|
| A                 | J6           | Left           |
| B                 | J7           | Right          |
| C                 | J8           | Monomix        |

## Digital Audio Interface

The MAX98360 Digital Audio Interface (DAI) is routed to interface header J3 as well as the AUDINT3 connector J1. The interface headers provide easy access to the device's PCM bus and the AUDINT3 connector allows for USB audio to be streamed onto the DEV Board. See [USB Audio Input](#) for details on USB audio streaming and [Table 8](#) for the AUDINT3 connector J1 pinout.

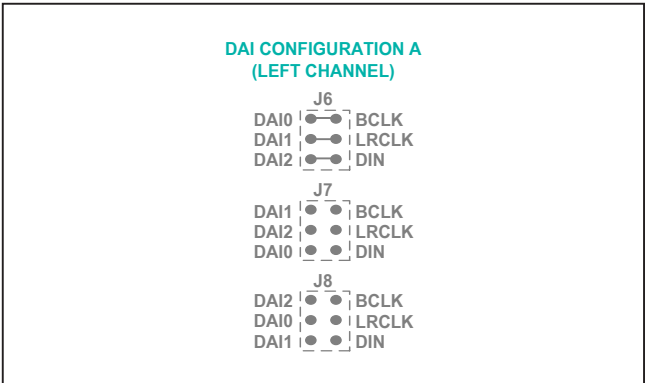


Figure 3. DAI Configuration A (Left-Channel for I2S/Left-Justified Operation)

Table 6. TDM Mode Channel Selection

| TDM CHANNEL | J4 SHUNT POSITION | DAI CONFIGURATION |
|-------------|-------------------|-------------------|
| 0           | 1-5               | A                 |
| 1           | 1-3               | A                 |
| 2           | Open              | A                 |
| 3           | 1-3               | B                 |
| 4           | 1-5               | B                 |
| 5           | 1-5               | C                 |
| 6           | Open              | C                 |
| 7           | 1-3               | C                 |

Table 7. DAI Header (J3)

| SIGNAL | PIN | PIN | SIGNAL |
|--------|-----|-----|--------|
| GND    | 1   | 2   | BCLK   |
| GND    | 3   | 4   | LRCLK  |
| GND    | 5   | 6   | DIN    |

## DAI Header

The DAI header (J3) provide access to MAX98360's PCM bus (BCLK, LRCLK, and DIN). This DAI headers facilitate evaluation with audio equipment I/O. See [Table 8](#) for the pinout of the DAI header and [Figure 4](#) for an illustration of how the MAX98360 DAI interface is routed through the DAI headers from the AUDINT3 connector.

## Speaker Output

The MAX98360 audio output is routed to the FOUTP and FOUTN connections on the DEV Board. The DEV Board is, by default, assembled to allow the MAX98360 output to connect directly to a speaker load without the need for filtering.

## EMI Filter

When long speaker cables are used with the MAX98360 output (exceeding approximately 12in), a ferrite bead plus capacitor filter can be installed to prevent excessive EMI radiation. Although it is best to choose filter components based on EMI test results, the combination of 100pF capacitors (C3, C4) and ferrite beads (FB1, FB2) generally work well. Before adding the filters to the design, first remove the small PCB traces shorting the pads of FB1 and FB2 (see the MAX98360 EV Kit Development Board Schematic and the MAX98360 EV Kit Development Board PCB Layout Diagrams).

**Table 8. AUDINT3 Connector (J1)**

| SIGNAL* | PIN* | SIGNAL | PIN | SIGNAL | PIN |
|---------|------|--------|-----|--------|-----|
| —       | 1    | MCLK   | 2   | GND    | 3   |
| BCLK2   | 4    | BCLK1  | 5   | GPIO1  | 6   |
| LRCLK2  | 7    | LRCLK1 | 8   | GPIO2  | 9   |
| DAC2    | 10   | DAC1   | 11  | GPIO3  | 12  |
| ADC2    | 13   | ADC1   | 14  | GPIO4  | 15  |
| —       | 16   | ID     | 17  | 3.3V   | 18  |
| AVDD    | 19   | DVDD   | 20  | GND    | 21  |
| HPVD    | 22   | VDDIO  | 23  | GND    | 24  |
| GND     | 25   | SDA    | 26  | 5V     | 27  |
| —       | 28   | SCL    | 29  | 5V     | 30  |
| GND     | 31   | IRQ    | 32  | RST    | 33  |
| —       | 34   | —      | 35  | —      | 36  |
| GND     | 37   | —      | 38  | —      | 39  |

\*This row in the J1 header is present on the AUDINT3 J1 header, but not the Dev Board J1 header.

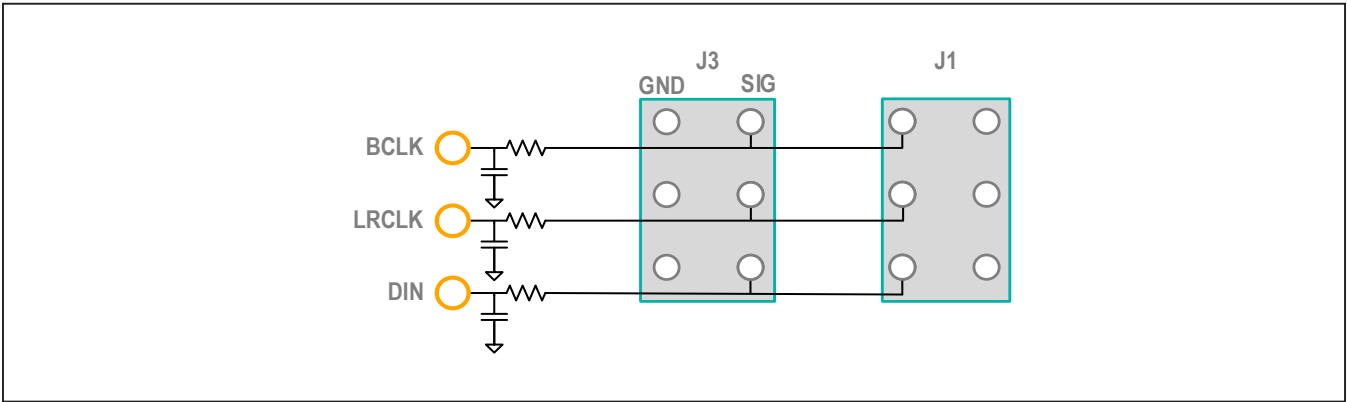


Figure 4. MAX98360 DAI Interface Headers (PCM)

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### Audio Interface Board III

Maxim's Audio Interface board III (AUDINT3 board) facilitates the evaluation of the DEV Board by providing a set of features that can be used to exercise the capabilities of the DEV Board without the need for additional audio equipment. The main components of the AUDINT3 board are its LDO supply voltages and its USB-to-PCM interfaces. The supply voltages allow the DEV Board to be evaluated with minimal amount of external supplies. The USB-to-PCM converter allows any computer to be used as an audio source for the DEV Board's digital audio PCM interface.

The MAX98360 DEV Board connects to the AUDINT3 board through connector J1. The physical connections made between the DEV Board and AUDINT3 board are listed in [Table 8](#).

### USB Audio Input

To utilize the USB streaming feature of the AUDINT3 board, connect the USB cables from your computer to the USB connector J2 on the AUDINT3 board and ensure that the AUDINT3 board is connected to the DEV Board.

### Ordering Information

| PART               | TYPE                       |
|--------------------|----------------------------|
| MAX98360AEVSYS#WLP | Complete Evaluation System |
| MAX98360BEVSYS#WLP | Complete Evaluation System |
| MAX98360CEVSYS#WLP | Complete Evaluation System |
| MAX98360DEVSY#WLP  | Complete Evaluation System |

#Denotes RoHS compliant.

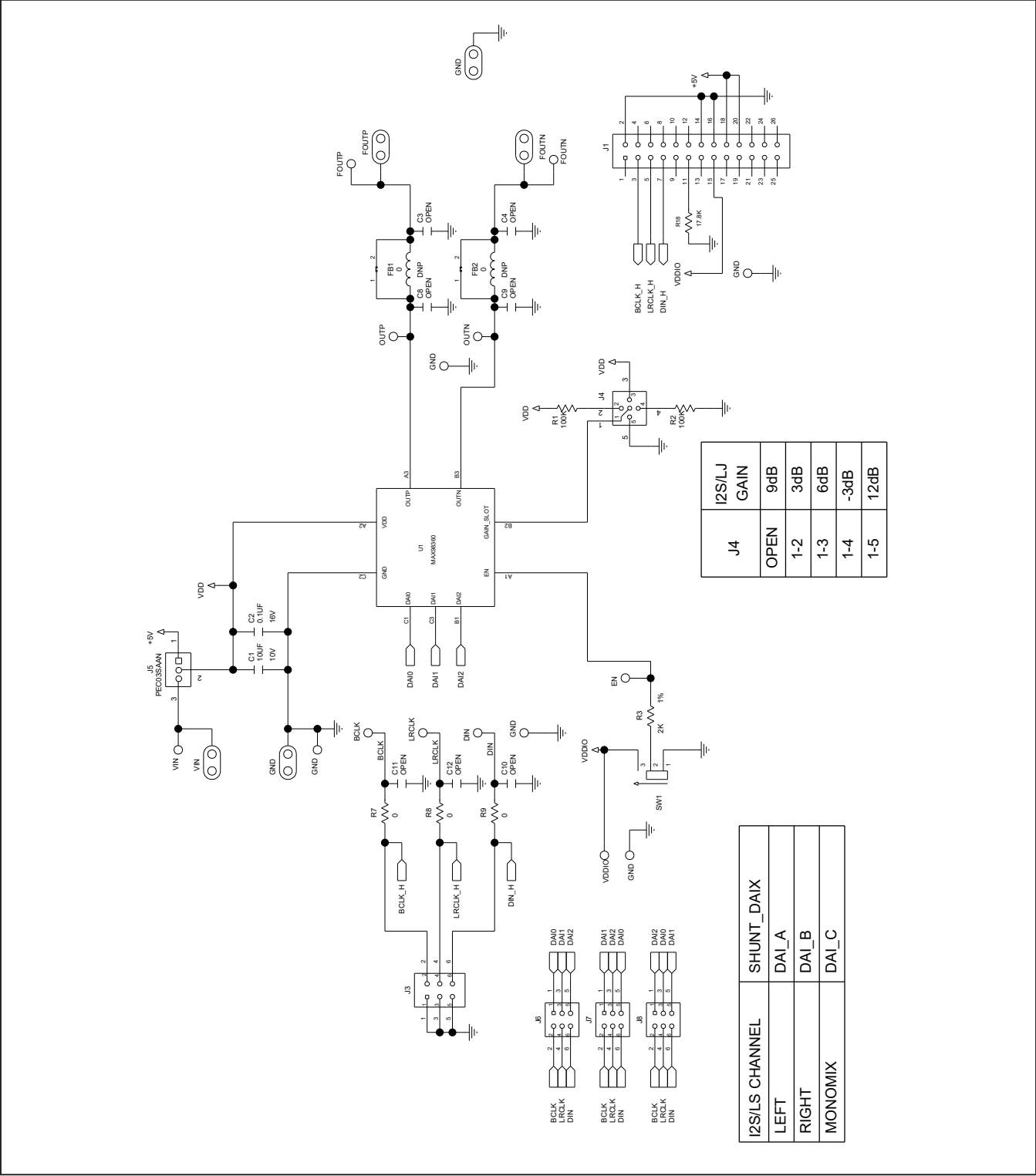
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## MAX98360 EV System DEV Board Bill of Materials

| ITEM  | REF_DES                                                       | DNI/DNP | QTY | MFG PART #                                                                     | MANUFACTURER                                 | VALUE                          | DESCRIPTION                                                                                                                                                        | COMMENTS |
|-------|---------------------------------------------------------------|---------|-----|--------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1     | BCLK, DIN,<br>EN, LRCLK                                       | -       | 4   | 5003                                                                           | KEystone                                     | N/A                            | TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN;<br>BOARD HOLE=0.04IN; ORANGE; PHOSPHOR<br>BRONZE WIRE SILVER PLATE FINISH;                                          |          |
| 2     | C1                                                            | -       | 1   | GRM155R61A106ME44;<br>GRM155R61A106ME11;<br>0402ZD106MAT2A;<br>CL05A106MP5NUNC | MURATA;MURATA;<br>AVX;SAMSUNG                | 10UF                           | CAPACITOR; SMT (0402); CERAMIC CHIP; 10UF;<br>10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R                                                                        |          |
| 3     | C2                                                            | -       | 1   | GRM033R61C104K;<br>CD603X5R1C104K030BC                                         | MURATA;TDK                                   | 0.1UF                          | CAPACITOR; SMT (0201); CERAMIC CHIP; 0.1UF;<br>16V; TOL=10%; MODEL=GRM SERIES;<br>TG=-55 DEGC TO +85 DEGC; TC=X5R                                                  |          |
| 4     | FOUTN, FOUTP,<br>GND_VIN                                      | -       | 4   | 111-2223-001                                                                   | EMERSON<br>NETWORK POWER                     | 111-2223-001                   | MACHINE SCREW; THUMBSCREW; BANANA;<br>1/4-32IN; 11/32IN; NICKEL PLATED BRASS                                                                                       |          |
| 5     | FOUTN_PAD,<br>FOUTP_PAD,<br>GND_PAD1,<br>GND_PAD2,<br>VIN_PAD | -       | 5   | 9020 BUSS                                                                      | WEICO WIRE                                   | MAXIMPAD                       | EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL;<br>SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S;<br>20AWG                                                                     |          |
| 6     | GND_TP1                                                       | -       | 1   | 5011                                                                           | KEystone                                     | N/A                            | TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN;<br>BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE<br>WIRE SILVER PLATE FINISH;                                      |          |
| 7     | GND_TP2-<br>GND_TP4                                           | -       | 3   | 5001                                                                           | KEystone                                     | N/A                            | TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN;<br>BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE<br>WIRE SILVER PLATE FINISH;                                           |          |
| 8     | J1                                                            | -       | 1   | TSW-113-08-S-D-RA                                                              | SAMTEC                                       | TSW-113-08-S-D-RA              | CONNECTOR; THROUGH HOLE; DOUBLE ROW;<br>RIGHT ANGLE; 26PINS                                                                                                        |          |
| 9     | J3, J6-J8                                                     | -       | 4   | PEC03DAAN                                                                      | SULLINS<br>ELECTRONICS CORP.                 | PEC03DAAN                      | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY;<br>STRAIGHT THROUGH; 6PINS; -65 DEGC TO +125 DEGC                                                                        |          |
| 10    | J4                                                            | -       | 1   | TSW-105-07-L-S                                                                 | SAMTEC                                       | TSW-105-07-L-S                 | EVKIT PART-CONNECTOR; THROUGH HOLE;<br>TSW SERIES; SINGLE ROW; STRAIGHT; 5PINS                                                                                     |          |
| 11    | J5                                                            | -       | 1   | PEC03SAAN                                                                      | SULLINS                                      | PEC03SAAN                      | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY;<br>STRAIGHT; 3PINS                                                                                                       |          |
| 12    | J9-J12                                                        | -       | 4   | 91772A108;<br>PHILLIPS-PAN_4-40X3/8IN;<br>PMSSS4400038PH; 9901                 | GENERIC PART                                 | N/A                            | MACHINE SCREW; PHILLIPS; PAN; 4-40; 3/8IN;<br>18-8 STAINLESS STEEL                                                                                                 |          |
| 13    | J9-J12                                                        | -       | 4   | MCH_SO_F_HEX_4-40X1/2                                                          | GENERIC PART                                 | N/A                            | STANDOFF; FEMALE-THREADED; HEX; 4-40; 1/2IN;<br>ALUMINUM                                                                                                           |          |
| 14    | R1, R2                                                        | -       | 2   | RC0603JR-07100KL                                                               | YAGEO                                        | 100K                           | RESISTOR; 0603; 100K OHM; 5%; 100PPM; 0.1W;<br>THICK FILM                                                                                                          |          |
| 15    | R3                                                            | -       | 1   | CRCW06032K0FK;<br>ERJ-3KF2001                                                  | VISHAY DALE;<br>PANASONIC                    | 2K                             | RESISTOR; 0603; 2K OHM; 1%; 100PPM; 0.10W;<br>THICK FILM                                                                                                           |          |
| 16    | R7-R9                                                         | -       | 3   | ERJ-2GE0R00                                                                    | PANASONIC                                    | 0                              | RESISTOR; 0402; 0 OHM; 0%; JUMPER; 0.10W;<br>THICK FILM                                                                                                            |          |
| 17    | R18                                                           | -       | 1   | ERJ-2RKF1782                                                                   | PANASONIC                                    | 17.8K                          | RESISTOR; 0402; 17.8K OHM; 1%; 100PPM;<br>0.1W; THICK FILM                                                                                                         |          |
| 18    | SU1                                                           | -       | 1   | C33-GAG1-2X3-G                                                                 | VALCON                                       | C33-GAG1-2X3-G                 | CONNECTOR; FEMALE; 2.54MM MULTI-POSITION<br>JUMPER LINK; WIREMOUNT; 6PINS                                                                                          |          |
| 19    | SU2, SU3                                                      | -       | 2   | S1100-B;SX1100-B;<br>STC025YAN                                                 | KYCON;KYCON;<br>SULLINS ELECTRONICS<br>CORP. | SX1100-B                       | TEST POINT; JUMPER; STR; TOTAL LENGTH=0.24IN;<br>BLACK; INSULATION=PBT;PHOSPHOR BRONZE<br>CONTACT=GOLD PLATED                                                      |          |
| 20    | SW1                                                           | -       | 1   | CL-SB-12B-01T;<br>CL-SB-12B-01                                                 | NIDEC COPAL<br>ELECTRONICS CORP              | CL-SB-12B-01T;<br>CL-SB-12B-01 | SWITCH; SPDT; SMT; 12V; 0.2A; CL-SB SERIES;<br>SLIDE SWITCH; RCOIL=0.07 OHM;<br>RINSULATION=100M OHM                                                               |          |
| 21    | U1                                                            | -       | 1   | MAX98360                                                                       | MAXIM                                        | MAX98360                       | EVKIT PART - IC; MAX98360; TINY; LOW-COST;<br>PCM INPUT CLASS-D AMPLIFIER WITH CLASS-AB<br>PERFORMANCE; WLP9; PACKAGE CODE: N91E1+1;<br>PACKAGE OUTLINE: 21-100371 |          |
| 22    | VDDIO                                                         | -       | 1   | 5010                                                                           | KEystone                                     | N/A                            | TEST POINT; PIN DIA=0.125IN; TOTAL<br>LENGTH=0.445IN; BOARD HOLE=0.063IN; RED;<br>PHOSPHOR BRONZE WIRE SIL;                                                        |          |
| 23    | PCB                                                           | -       | 1   | MAX98360_WLP_APPS_A                                                            | MAXIM                                        | PCB                            | PCB:MAX98360_WLP_APPS_A                                                                                                                                            | -        |
| 24    | C3, C4, C8-C12                                                | DNP     | 0   | N/A                                                                            | N/A                                          | OPEN                           | PACKAGE OUTLINE 0402 NON-POLAR CAPACITOR                                                                                                                           |          |
| 25    | FB1, FB2                                                      | DNP     | 0   | RC1608J000CS                                                                   | SAMSUNG ELECTRONICS                          | 0                              | RESISTOR; 0603; 0 OHM; 5%; JUMPER; 0.10W;<br>THICK FILM                                                                                                            |          |
| 26    | OUTN, OUTP                                                    | DNP     | 0   | 5002                                                                           | KEystone                                     | N/A                            | TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN;<br>BOARD HOLE=0.04IN; WHITE; PHOSPHOR BRONZE<br>WIRE SILVER;                                                        |          |
| TOTAL |                                                               |         | 48  |                                                                                |                                              |                                |                                                                                                                                                                    |          |

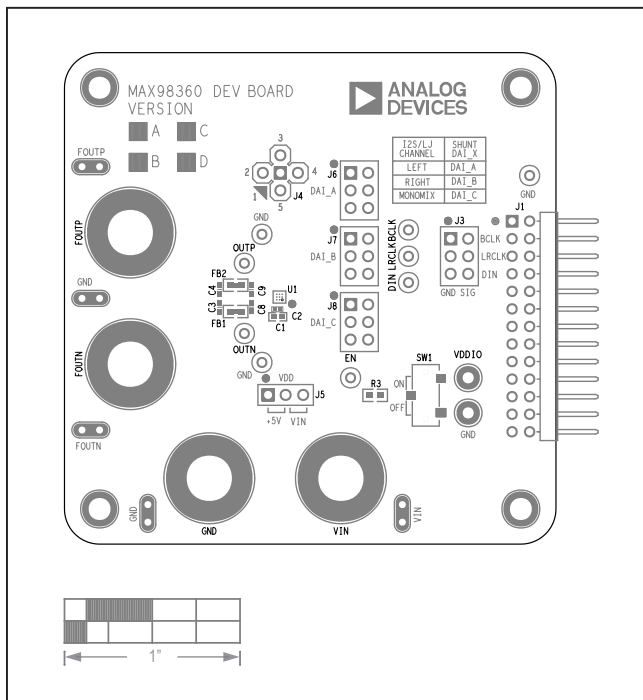
MAX98360 EV System PCB Schematic



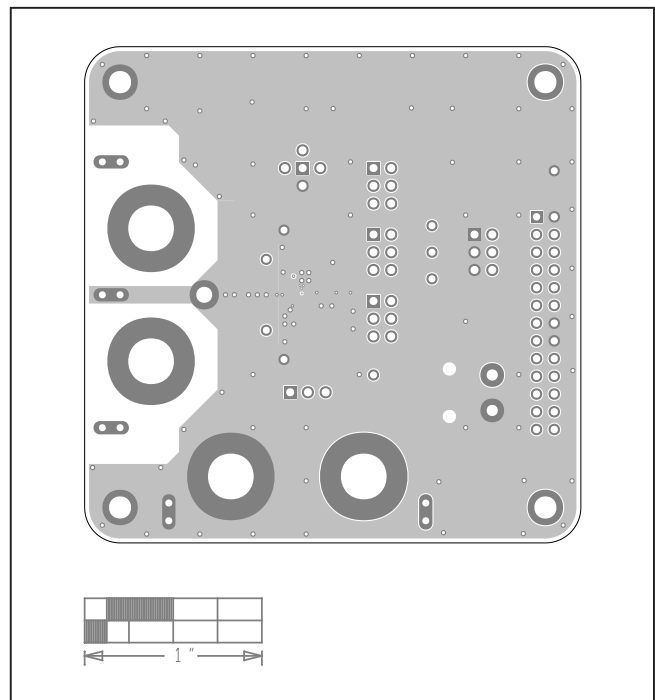
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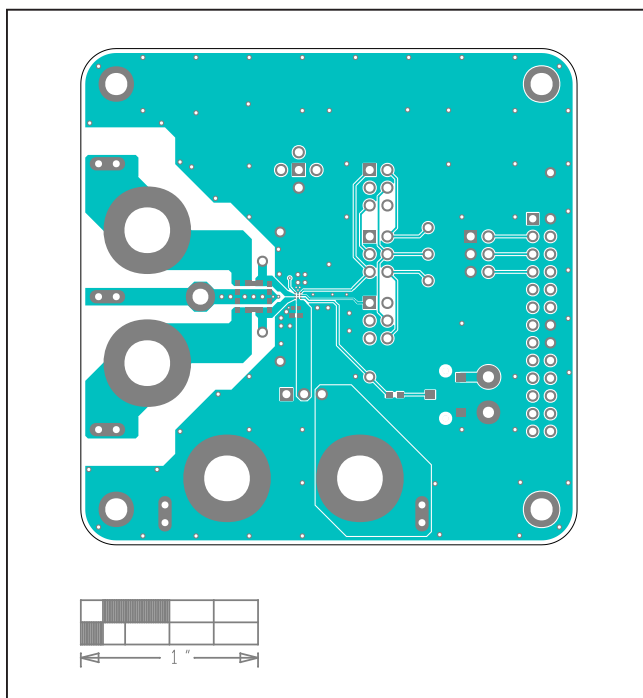
## MAX98360 EV System PCB Layout Diagrams



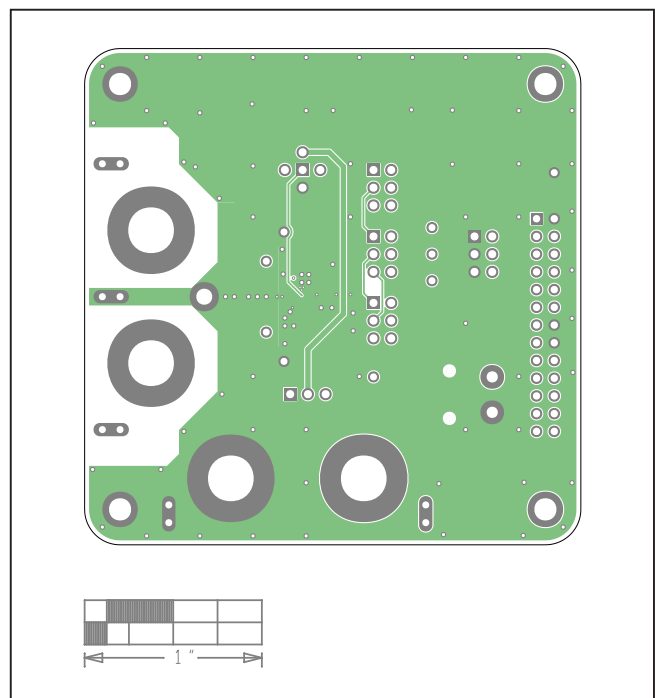
MAX98360 EV System—Top Silkscreen



MAX98360 EV System—Inner 1

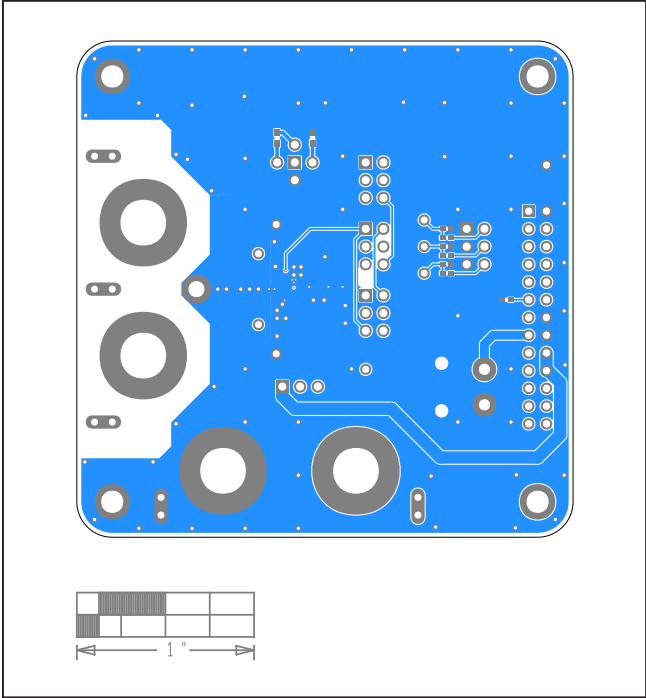


MAX98360 EV System—Top

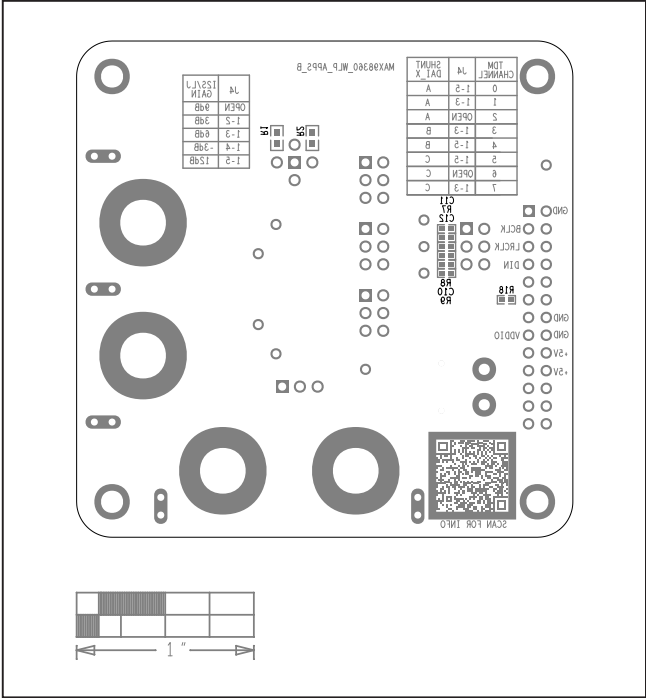


MAX98360 EV System—Inner 2

MAX98360 EV System PCB Layout Diagrams (continued)



MAX98360 EV System—Bottom



MAX98360 EV System—Bottom Silkscreen

### Revision History

| REVISION NUMBER | REVISION DATE | DESCRIPTION                                                                                                         | PAGES CHANGED |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------|---------------|
| 0               | 11/19         | Initial release                                                                                                     | —             |
| 1               | 11/23         | Update Figure 1, <i>MAX98360 EV System PCB Schematic</i> and <i>MAX98360 EV System PCB Layout Diagrams</i> sections | 1, 8–10       |

