

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

General Description

The MAX9273 evaluation kit (EV kit) provides a proven design to evaluate the MAX9273 high-bandwidth gigabit multimedia serial link (GMSL) serializer with spread spectrum and full-duplex control channel. The EV kit also includes Windows XP®, Windows Vista®, and Windows® 7-compatible software that provides a simple graphical user interface (GUI) for exercising the features of the device.

The EV kit comes with a MAX9273GTJ/V+ installed.

For complete GMSL evaluation, order the MAX9273 coax or STP EV kit and its companion board, the MAX9272 coax or STP EV kit. **Note:** The GUI software is identical for both the coax and STP EV kits for the MAX9271, MAX9272, and MAX9273.

For evaluation using a standard FAKRA coaxial cable, order both the MAX9273 coax EV kit and its companion board, the MAX9272 coax EV kit.

For evaluation using a standard Rosenberger twisted-pair cable, order both the MAX9273 STP EV kit and its companion board, the MAX9272 STP EV kit.

Features

- Accepts 22-Bit Parallel Video
- Windows XP-, Windows Vista-, and Windows 7-Compatible Software
- USB-PC Connection (Cable Included)
- USB Powered
- Proven PCB Layout
- Fully Assembled and Tested

Ordering Information appears at end of data sheet.

Component List

| DESIGNATION | QTY | DESCRIPTION |
|---|-----|---|
| C1–C5 | 5 | 1000pF ±5%, 50V C0G ceramic capacitors (0402) Murata GRM1555C1H102J |
| C6–C10, C101–C105, C111, C121, C131, C141, C151 | 15 | 0.1µF ±10%, 16V X7R ceramic capacitors (0603) TDK C1608X7R1C104K |
| C15, C16 | 2 | 0.22µF ±10%, 50V X7R ceramic capacitors (0805) Murata GRM21BR71H224K |
| C21 | 1 | 4.7µF ±20%, 25V X7R ceramic capacitor (1206) Murata GCM31CR71E475M |

| DESIGNATION | QTY | DESCRIPTION |
|------------------------|-----|---|
| C22, C24–C26, C109 | 5 | 10µF ±20%, 16V X5R ceramic capacitors (1206) Murata GRM31CR61C106M |
| C23 | 0 | Not installed, ceramic capacitor (1206) |
| C106, C107, C122, C123 | 4 | 22pF ±5%, 50V C0G ceramic capacitors (0603) Murata GRM1885C1H220J |
| C108 | 1 | 1µF ±10%, 16V X5R ceramic capacitor (0603) TDK C1608X5R1C105K |
| C110 | 1 | 0.033µF ±10%, 25V X7R ceramic capacitor (0603) Murata GRM188R71E333K |

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MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273
with FAKRA Coaxial Cable

Component List (continued)

| DESIGNATION | QTY | DESCRIPTION |
|---|-----|---|
| H_DIN6_0 | 1 | 14-pin (2 x 7) header |
| H_DIN15_7 | 1 | 18-pin (2 x 9) header |
| H_DIN21_16 | 1 | 12-pin (2 x 6) header |
| H_GPIO1, H_GPO, H_PCLKIN | 3 | 2-pin headers |
| J2, J3 | 2 | 50Ω right-angle FAKRA male plugs Rosenberger 59S2AX-400A5-Y or Amphenol FA1-NCRP-PCB-9 |
| JU_AUTOS, JU_DRS, JU_MS, JU_PWDN, JU_RXSDA, JU_TXSCL, JU121, JU122, JU151, JU152 | 10 | 3-pin headers |
| JU21–JU23, JU153, JU154, JU_USB+5V | 6 | 2-pin headers |
| JU_CONF0, JU_CONF1 | 2 | 4-pin headers |
| JU101–JU108, JU141–JU144 | 0 | Not installed, 2-pin headers— short (PCB trace) |
| L21–L23, L101 | 4 | 300Ω ±25%, 500mA ferrite beads (0603) TDK MMZ1608R301A |
| LED120, LED127, LED151–LED158 | 10 | Red LEDs (0805) |
| LED126 | 1 | Green LED (0805) |
| R1, R2 | 0 | Not installed, 49.9kΩ 1% resistors |
| R3, R4 | 0 | Not installed, 0Ω resistors (0603) |
| R5, R6 | 2 | 49.9Ω ±1% resistors (0603) |
| R101, R102 | 2 | 27Ω ±5% resistors (0603) |
| R103 | 1 | 1.5kΩ ±5% resistor (0603) |
| R104 | 1 | 470Ω ±5% resistor (0603) |
| R111 | 1 | 2.2kΩ ±5% resistor (0603) |
| R112, R122 | 2 | 10kΩ ±5% resistors (0603) |

| DESIGNATION | QTY | DESCRIPTION |
|-----------------------------------|-----|---|
| R121 | 1 | 1.1kΩ ±5% resistor (0603) |
| R123, R126, R127, R151–R158 | 11 | 1kΩ ±5% resistors (0603) |
| RESETU12 | 1 | Momentary pushbutton switch (6mm) |
| SWU15 | 1 | DIP switch |
| U1 | 1 | GMSL serializer (40 TQFN-EP*) Maxim MAX9273GTLV+ |
| U2 | 1 | 1.8V, 500mA LDO regulator (8 μMAX®-EP*) Maxim MAX1792EUA18+ (Top Mark: AAAA) |
| U10 | 1 | UART-to-USB converter (32 TQFP) |
| U11 | 0 | Not installed, 93C46-type 3-wire EEPROM 16-bit architecture (8 SO) |
| U12 | 1 | Ultra-high-speed microcontroller (44 TQFP) Maxim DS89C450-ENL+ |
| U13 | 1 | Quad three-state buffer (14 SO) ON Semi MC74AC125DR2 |
| U14 | 1 | Level translator (14 TSSOP) Maxim MAX3378EEUD+ |
| U15 | 1 | I ² C I/O expander (24 QSOP) Maxim MAX7324AEG+ |
| USB1 | 1 | USB type-B right-angle female receptacle |
| Y10 | 1 | 6MHz crystal (HCM49) Hong Kong X'tals SSL60000N1HK188F0-0 |
| Y12 | 1 | 14.7456MHz crystal (HCM49) Hong Kong X'tals SSM1474518AFHHF0 |
| — | 1 | USB high-speed A-to-B cables, 6ft |
| — | 17 | Shunts |
| — | 1 | PCB: MAX9273 COAX EVALUATION KIT |

*EP = Exposed pad.

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MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273
with FAKRA Coaxial Cable

Component Suppliers

| SUPPLIER | PHONE | WEBSITE |
|--|-------------------|-----------------------------|
| Amphenol RF | 800-627-7100 | www.amphenolrf.com |
| Hong Kong X'tals Ltd. | 852-35112388 | www.hongkongcrystal.com |
| Murata Electronics North America, Inc. | 770-436-1300 | www.murata-northamerica.com |
| ON Semiconductor | 602-244-6600 | www.onsemi.com |
| Rosenberger Hochfrequenztechnik GmbH | 011-49-86 84-18-0 | www.rosenberger.de |
| TDK Corp. | 847-803-6100 | www.component.tdk.com |

Note: Indicate that you are using the MAX9273 when contacting these component suppliers.

MAX9273 Coax EV Kit Files

| FILE | DESCRIPTION |
|-------------------------|--|
| INSTALL.EXE | Installs the EV kit files on your computer |
| MAX9271.EXE | Application program for both MAX9273 and MAX9272 devices |
| CDM20600.EXE | Installs the USB device driver |
| UNINSTALL.EXE | Uninstalls the EV kit software |
| USB_Driver_Help_200.PDF | USB driver installation help file |

Quick Start

Required Equipment

- MAX9273 coax EV kit (USB cable included)
- MAX9272 coax EV kit (USB cable included)
- 2m Rosenberger FAKRA cable assembly (included with the MAX9272 coax EV kit)
- Parallel data source (such as digital video)
- Optional: Function generator (needed only if parallel data lacks a pixel clock)
- User-supplied Windows XP, Windows Vista, or Windows 7 PC with a spare USB port (direct 500mA connection required; do not use a bus-powered hub)
- 5V DC, 500mA power supply

Note: In the following sections, software-related items are identified by bolding. Text in **bold** refers to items directly from the EV kit software. Text in **bold and underlined** refers to items from the Windows operating system.

Procedure

The EV kit is fully assembled and tested. Follow the steps below to verify board operation:

- 1) Visit www.maximintegrated.com/evkitsoftware to download the latest version of the EV kit software, 9273Rxx.ZIP. Save the EV kit software to a temporary folder and unzip the ZIP file.
- 2) Install the EV kit software and USB driver on your computer by running the INSTALL.EXE program inside the temporary folder. The program files are copied to your PC and icons are created in the Windows **Start | Programs | Maxim Evkit Software | MAX9271** menu. During software installation, some versions of Windows may show a warning message indicating that this software is from an unknown publisher. This is not an error condition and it is safe to proceed with installation. Administrator privileges are required to install the USB device driver on Windows.
- 3) Verify that all jumpers are in their default positions, as shown in Table 1.
- 4) Connect the positive terminal of the power supply to the VIN PCB pad on the MAX9273 coax EV kit and the negative terminal to the nearest GND PCB pad on the MAX9273 coax EV kit. Also connect the positive terminal of the power supply to the VIN PCB pad on the MAX9272 coax EV kit and the negative terminal to the nearest GND PCB pad on the MAX9272 coax EV kit.
- 5) Connect the FAKRA cable from the MAX9273 coax EV kit J2 connector to the MAX9272 coax EV kit J2 connector. Optionally, connect a second FAKRA cable between the J3 connectors of the two boards.

- 6) Connect the parallel data source to MAX9273 coax EV kit headers H_DIN21_16, H_DIN15_7, and H_DIN6_0. Connect pixel clock or function generator to MAX9273 coax EV kit header H_PCLK_IN.
- 7) Connect the USB cable from the PC to the MAX9273 coax EV kit board. A Windows message appears when connecting the EV kit board to the PC for the first time. Each version of Windows has a slightly different message. If you see a Windows message stating **ready to use**, then proceed to the next step. Otherwise, open the [USB_Driver_Help_200.PDF](#) document in the Windows **Start | Programs | Maxim Evkit Software | MAX9271** menu to verify that the USB driver was installed successfully.
- 8) Verify that MAX9273 coax EV kit LED120 lights up, indicating that the microcontroller is powered and enabled.
- 9) Verify that MAX9272 coax EV kit LED120 lights up, indicating that the microcontroller is powered and enabled.
- 10) Verify that MAX9272 coax EV kit LED2 lights up, indicating that the link has been successfully established. If LED2 is off or LED1 is on, double-check that the PCLK_IN signal is clocking data.
- 11) Start the MAX9273 coax EV kit software by opening its icon in the **Start | Programs | Maxim Evkit Software | MAX9271** menu. The EV kit software configuration window appears, as shown in Figure 7.
- 12) I²C-to-I²C mode support: To enable I²C-to-I²C mode, select **I2C** from the **Bus** drop-down list in the **Serializer** group box. Change the jumpers (JU_CONF1 and JU_CONF0), as shown in the dialog box, to configure I²C-to-I²C mode. Change JU_TXSCL and JU_RXSDA from pins 1-2 to 2-3 to connect to the I²C bus.
- 13) Press the **Connect** button and the configuration window disappears.
- 14) The EV kit software main window appears, as shown in Figure 1.
- 15) Press the **Read All** button to read all registers on the MAX9273 and MAX9272.

Detailed Description of Software

The main window of the evaluation software (Figure 1) shows a block diagram representing the MAX9273/MAX9272 system. The left column shows MAX9273 input data sources and the right column shows MAX9272 output data sinks.

The **Change Configuration** button brings up the **Software Connect** window (Figure 7), allowing the software GUI to select which side of the link the USB cable should be plugged into and the **Jumper Setting** window (Figure 8) to help in configuring the boards. Controlling from the MAX9272 side requires changing some jumper settings, as described in this window. If the MAX9273 and MAX9272 device addresses have been previously changed from their factory power-on-reset (POR) values, the new addresses must be specified in the **Software Connect** window to allow register access.

The **Baud Rate** drop-down list sets the communications baud rate. The USB link uses the same baud rate as the MAX9273/MAX9272. Note that the baud rate should only be changed one step at a time.

The **Read All** button reads all MAX9273 and MAX9272 device registers. The **Reset to Default Values** button restores the recommended factory settings and the **Write All** button writes all MAX9273 and MAX9272 device registers with the values shown in the GUI.

The **MAX9273** tab sheet (Figure 2) provides direct access to all MAX9273 registers and the **MAX9272** tab sheet (Figure 3) provides direct access to all MAX9272 registers. Each register has its own **Read** and **Write** button. The small circle next to the **Read** button turns yellow to indicate an attempting read or write, red to indicate a failed read or write, or green to indicate a successful read or write operation.

The **MAX7324** tab sheet (Figure 4) controls the I²C I/O expander on the remote side of the link. When the USB is plugged into the MAX9273 coax EV kit, the **MAX7324** tab sheet controls the MAX7324 (U15) on the MAX9272 coax EV kit. Note that the MAX7324 actually has two device addresses, but for simplicity, the software GUI only displays the device address associated with the MAX7324 outputs. For details, refer to MAX7324 IC data sheet.

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

The **PRBS Test** tab sheet (Figure 5) uses the MAX9273 and MAX9272 registers to perform a pseudorandom bit sequence (PRBS) error-rate test. Select the test duration (maximum 32767s = 9.1hrs) and press **Start**. The software GUI configures the MAX9273 and MAX9272 to begin the PRBS test, counts down the specified delay time, and then reports the final value of the MAX9272 PRBSERR register.

The **Interface History and Low Level Access** tab sheet (Figure 6) shows the recent low-level communications activity between the software GUI and the MAX9273/MAX9272 devices. The **Register Access** group box provides arbitrary device read/write control, supporting additional user-supplied devices besides the

on-board MAX9273, MAX9272, and MAX7324. The **Device Address, Register, and Data** drop-down lists specify the device address and the register within the device, as well as one optional byte of data to be written. Pressing **Write Register** writes 1 byte of data to the specified device register. Pressing **Read Register** reads the specified device register and reports the result into the **Interface History** window. Devices that are not register-based (such as the MAX7324) are supported by **Send Data (no register)** and **Receive Data (no register)**. User-supplied devices requiring other interface protocols must use **Raw TX byte codes** to communicate. Note that in bypass mode, raw data is passed to the user-supplied slave device directly without modification.

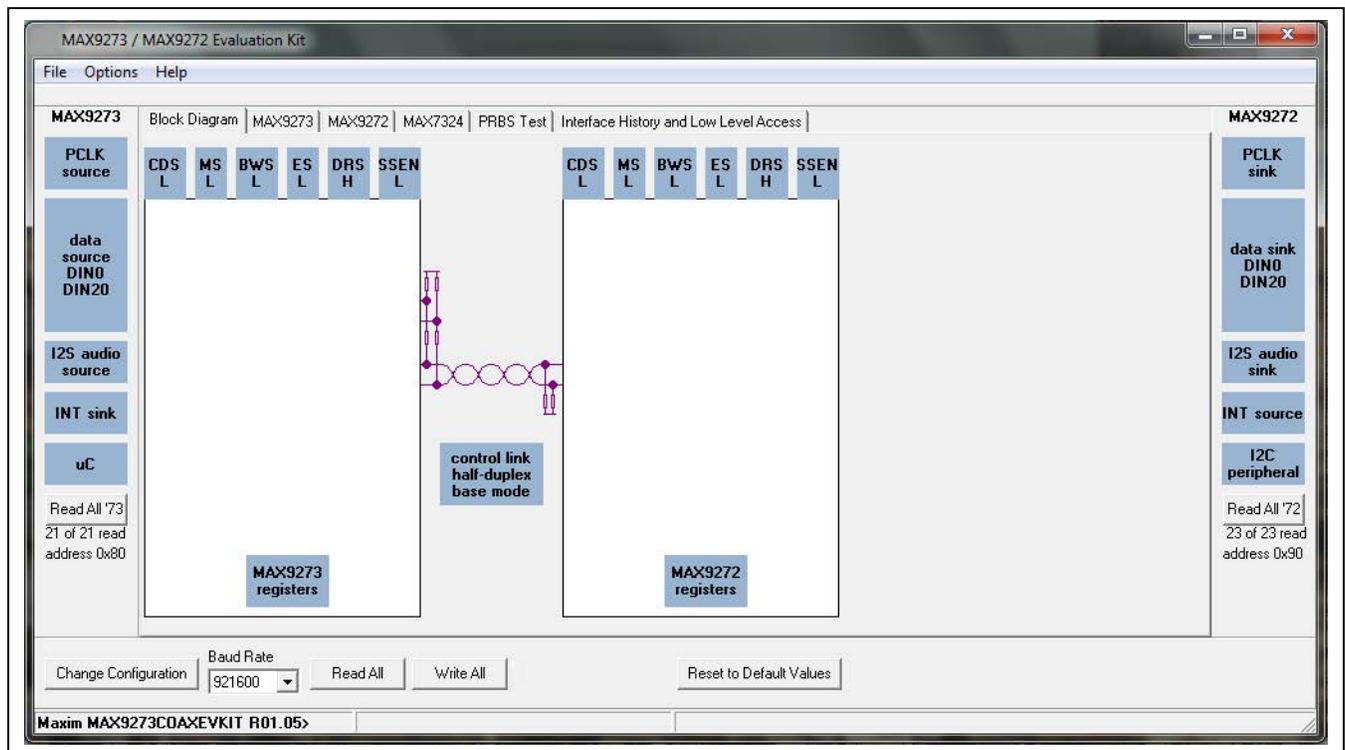


Figure 1. MAX9273/MAX9272 EV Kit Software Main Window (Block Diagram Tab)

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

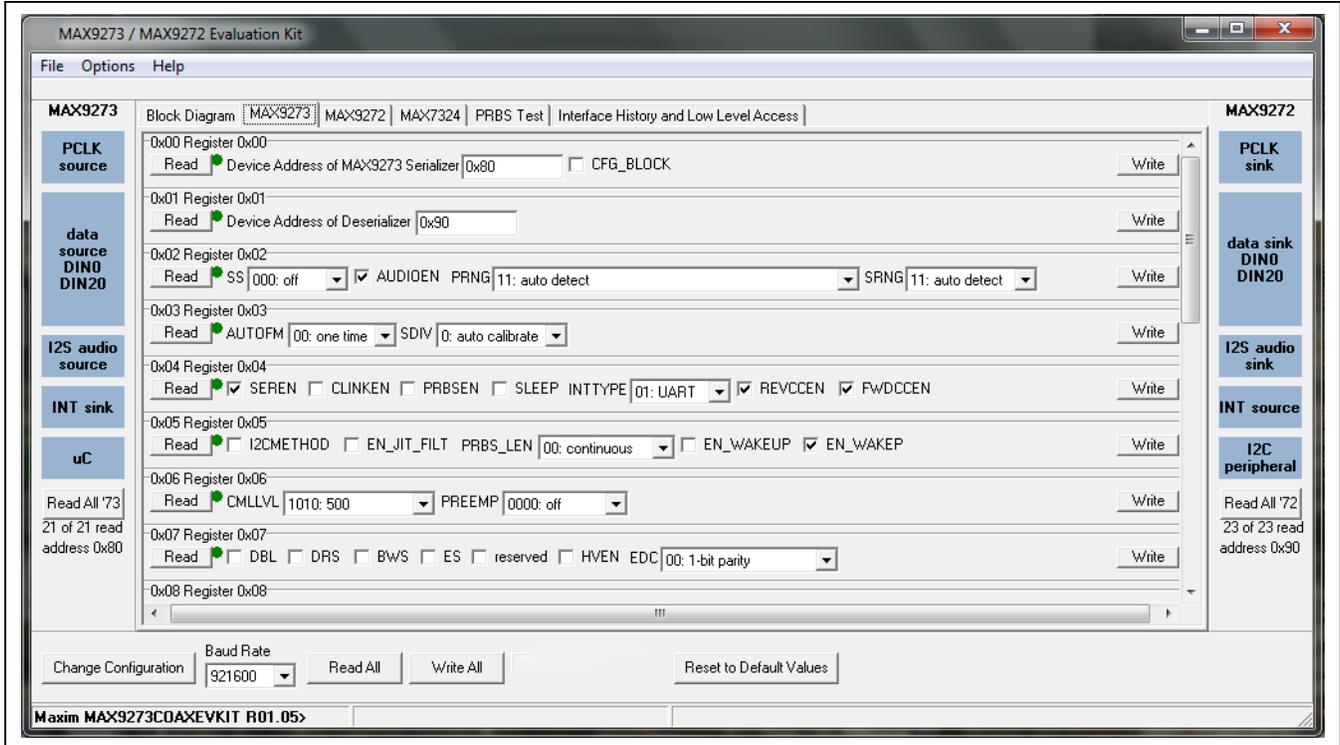


Figure 2. MAX9273/MAX9272 EV Kit Software Main Window (MAX9273 Tab)

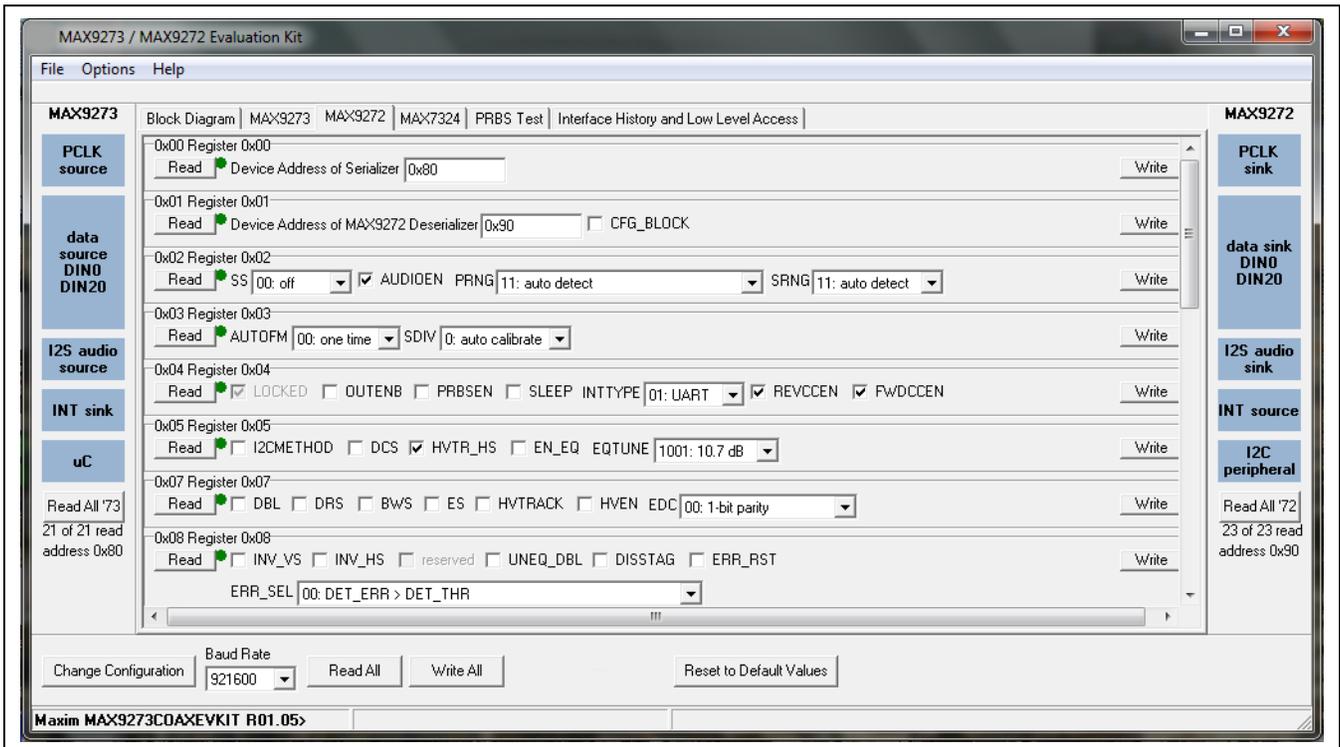


Figure 3. MAX9273/MAX9272 EV Kit Software Main Window (MAX9272 Tab)

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

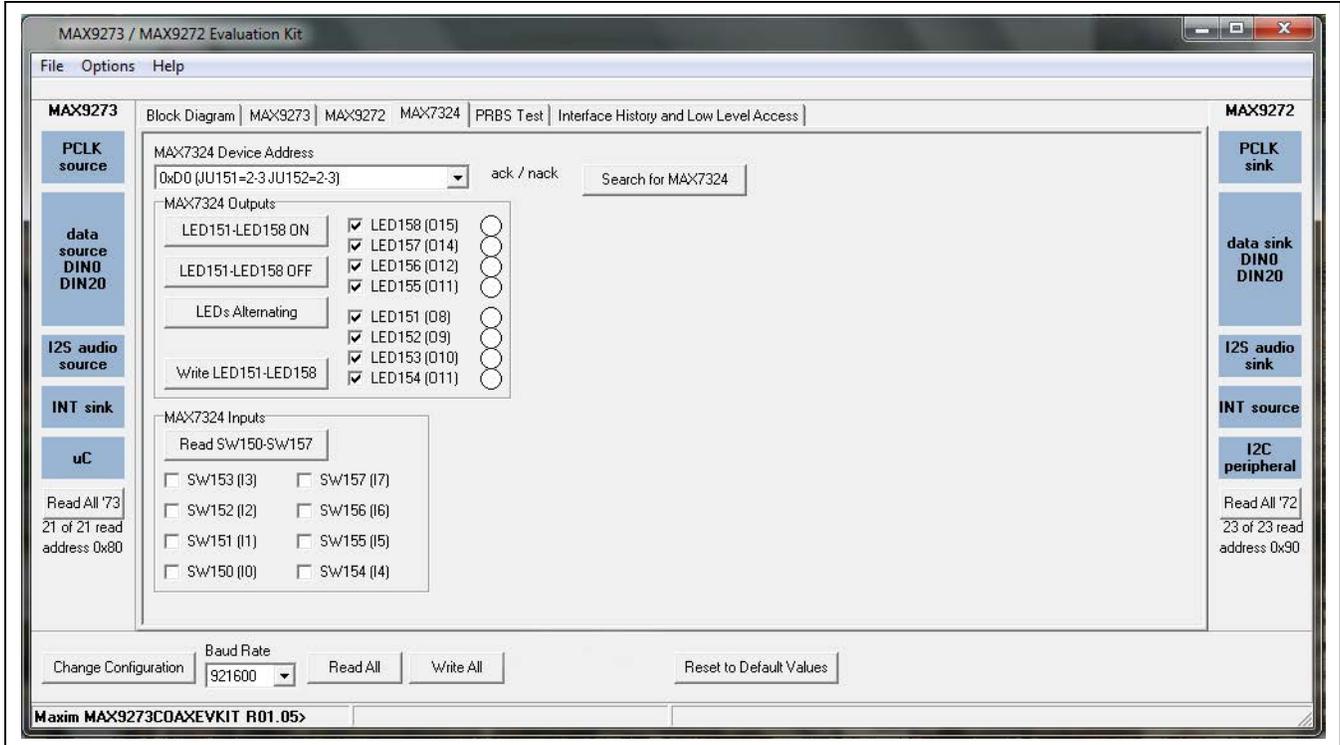


Figure 4. MAX9273/MAX9272 EV Kit Software Main Window (MAX7324 Tab)

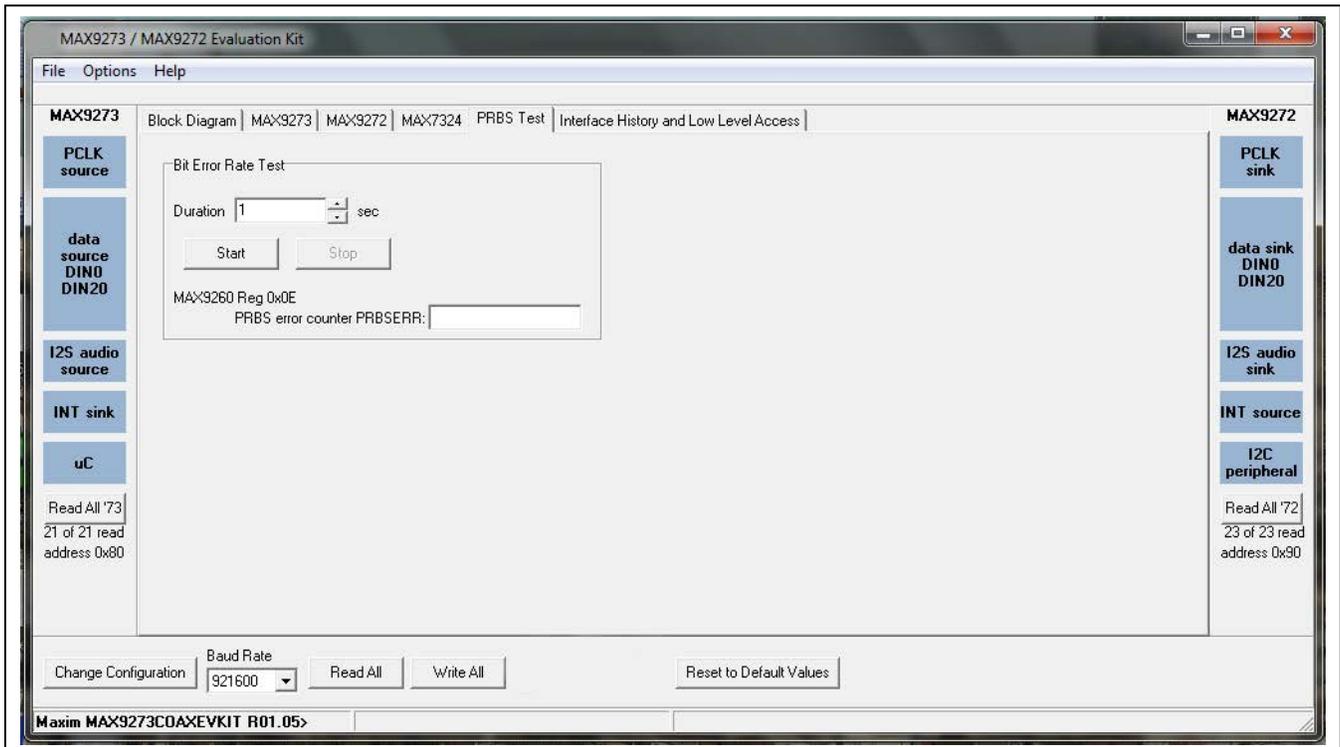


Figure 5. MAX9273/MAX9272 EV Kit Software Main Window (PRBS Tab)

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

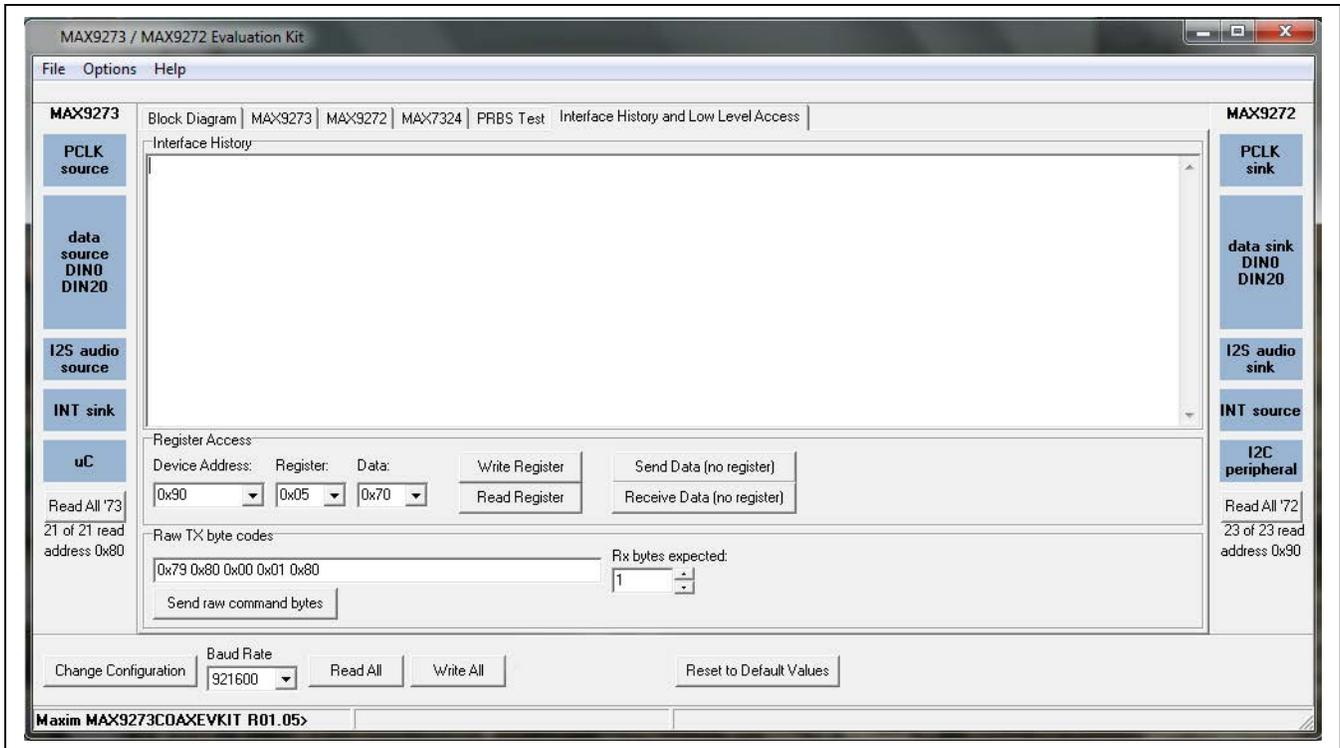


Figure 6. MAX9273 EV Kit Software Main Window (Interface History and Low Level Access Tab)

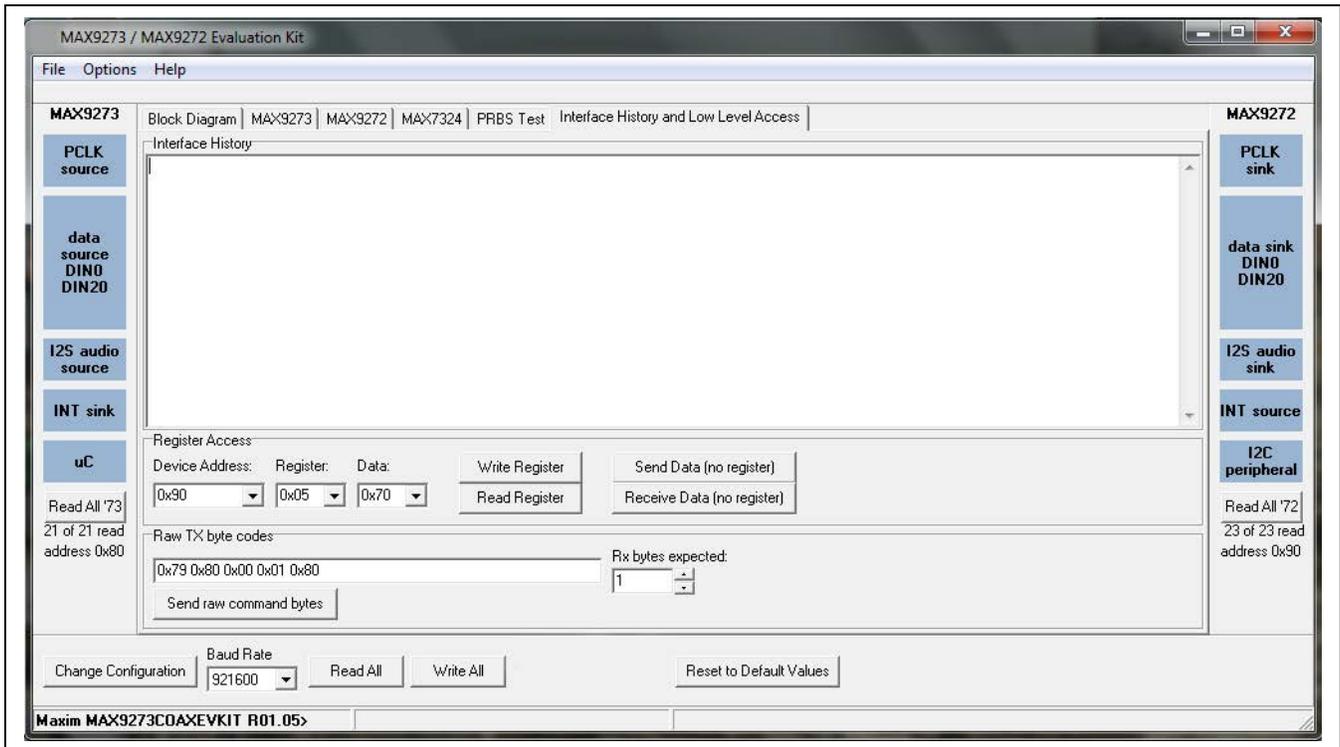


Figure 7. MAX9273/MAX9272 EV Kit Software Connect Window

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273
with FAKRA Coaxial Cable

Detailed Description of Hardware

The MAX9273 coax EV kit provides a proven layout for the MAX9273 GMSL serializer. On-board level translators and easy-to-use USB-PC connection are included on the EV kit.

The MAX9272 coax EV kit board layout is divided into four principal sections:

- 1) Power-supply circuitry. On-board LDO regulator U2 powers the AVDD, DVDD, and IOVDD supplies from VIN.
- 2) MAX9272 and its support components.
- 3) Microcontrollers (U10–U14).
- 4) I²C slave device (U15).

The microcontroller and I²C slave device sections are identical on the MAX9271–MAX9273 coax EV kits.

Microcontroller-Supplied I²C Interface

The microcontroller-supplied I²C interface (through U12 and U14) is intended to operate while both serializer and deserializer boards are powered on and locked. If the microcontroller-supplied I²C interface is to be used in any other case, one of the following should be done: Use an IOVDD of 2.2V or greater with the I²C interface, or use a 100kbps I²C data rate.

User-Supplied Interface

To use the MAX9273 coax EV kit with a user-supplied interface, first cut the PCB traces at jumpers JU141 and JU142. Next, apply your own TX/SCL signal at the U1 side of JU141 and RX/SDA at the U1 side of JU142. Refer to the MAX9273 and MAX9272 IC data sheets for details about UART protocol for base mode, write data format, read data format, selecting base mode or bypass mode, and selecting a UART or I²C slave device.

User-Supplied Power Supply

The MAX9273 and MAX9272 coax EV kits are powered completely from the USB port by default. Jumper JU_USB+5V connects the 5V USB supply and the VIN power supply.

To provide different power supplies to AVDD, DVDD, and IOVDD, remove the shunts from jumpers JU21–JU23 and apply external user-supplied power at the AVDD, DVDD, and IOVDD oval PCB pads, respectively.

Detailed Description of Firmware

The DS89C450 microcontroller (U12) runs custom firmware that ensures that no breaks occur within register read/write commands. The firmware records 9-bit even-parity data received from the USB interface while RTS is set, and plays back the 9-bit data with 1.5 stop bits timing when RTS is cleared. Data received from the MAX9273 is immediately relayed to the USB.

The firmware also supports a small set of commands, available when RTS is clear. Since all register read/write requests are sent with RTS set, there is no conflict between register data and firmware commands. These firmware commands are issued automatically by the MAX9273 coax EV kit software GUI. The following information is provided for reference only:

- Firmware command “?” prints the firmware version banner message and brief command list.
- Firmware command “B” changes the baud rate by changing the internal TH1 baud-rate divisor. Refer to the firmware help command “?” for details. Pressing SW122 resets the USB baud rate to 921600 baud. The software GUI automatically sends the baud-rate change command.
- Firmware command “T” supports waking up the MAX9273 from the MAX9272 side of the link. Command “T” performs a dummy read, followed by a delay on the order of 1ms to 8ms, and finally writes a register value. For example, send “T810504800483” to read from device address 0x81 register 0x05, delay 4ms, then write to device address 0x80 register 0x04 data 0x83. This is the MAX9273 wake-up sequence for the default device addresses.
- Firmware commands “R” and “W” read and write device registers. The 8-bit device address, register address, length, and data are sent in hexadecimal. On success, the return code is “+” followed by the read data. On failure, the return code is “-”.
- Some commands are used only during firmware development. Firmware command “S” simulates a dummy device using on-chip memory instead of device registers, used during firmware development. Firmware command “~” prints a diagnostic trace dump used during firmware development. Firmware commands “1” and “2” perform HDCP link authentication check operations, used during firmware development. In normal operation, these operations not used for the MAX9273.

Table 1. Jumper Descriptions

| JUMPER | SIGNAL | SHUNT POSITION | DESCRIPTION |
|-----------|---------------------------|----------------|--|
| JU_AUTOS | $\overline{\text{AUTOS}}$ | 1-2 | $\overline{\text{AUTOS}}$ = high. |
| | | 2-3* | $\overline{\text{AUTOS}}$ = low. |
| JU_CONF0 | CONF0 | 1-2 | CONF0 = high (see Table 2). |
| | | 1-3 | CONF0 = unconnected (see Table 2). |
| | | 1-4* | CONF0 = low (see Table 2). |
| JU_CONF1 | CONF1 | 1-2 | CONF1 = high (see Table 2). |
| | | 1-3* | CONF1 = unconnected (see Table 2). |
| | | 1-4 | CONF1 = low (see Table 2). |
| JU_DRS | DRS | 1-2 | DRS = high. |
| | | 2-3 | DRS = low. |
| JU_MS | MS | 1-2 | MS = high. Full-duplex bypass mode. Device registers not accessible. |
| | | 2-3* | MS = low. Half-duplex base mode. Required when writing to device registers. |
| JU_PWDN | $\overline{\text{PWDN}}$ | 1-2* | $\overline{\text{PWDN}}$ = high. Normal operation. |
| | | 2-3 | $\overline{\text{PWDN}}$ = low. Power-down. |
| JU_RXSDA | RX/SDA | 1-2* | RX/SDA = RX from U14. |
| | | 2-3 | RX/SDA = SDA from U14. |
| JU_TXSCL | TX/SCL | 1-2* | TX/SCL = TX from U14. |
| | | 2-3 | TX/SCL = SCL from U14. |
| JU_USB+5V | Bus power | 1-2* | VIN connects to USB+5V. |
| | | Open | USB power is not connected to link cable power. |
| JU21 | AVDD | 1-2* | AVDD power from 1.8V LDO U2, powered by VIN. |
| | | Open | AVDD must be provided from an external source. |
| JU22 | DVDD | 1-2* | DVDD power from 1.8V LDO U2, powered by VIN. |
| | | Open | DVDD must be provided from an external source. |
| JU23 | IOVDD | 1-2* | IOVDD power from 1.8V LDO U2, powered by VIN. |
| | | Open | IOVDD must be provided from an external source. |
| JU101 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU102 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU103 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU104 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU105 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU106 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU107 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU108 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU121 | Reserved | Not installed* | Reserved for factory diagnostic tests. |
| JU122 | Reserved | Pin 1 only* | Reserved for factory diagnostic tests. |
| JU141 | TX/SCL | Not installed* | Connects U1 to U12 through level translator U14. |

Table 1. Jumper Descriptions (continued)

| JUMPER | SIGNAL | SHUNT POSITION | DESCRIPTION |
|--------|---------|----------------|--|
| JU142 | RX/SDA | Not installed* | Connects U1 to U12 through level translator U14. |
| JU143 | LFLT | Not installed* | Connects U1 to USB through level translator U14. |
| JU144 | INT | Not installed* | Connects U1 to USB through level translator U14. |
| JU151 | U15 AD2 | 1-2* | Selects U15 I ² C device address. |
| | | 2-3 | Selects U15 I ² C device address. |
| | | Open | Reserved for factory diagnostic tests. |
| JU152 | U15 AD0 | 1-2* | Selects U15 I ² C device address. |
| | | 2-3 | Selects U15 I ² C device address. |
| | | Open | Reserved for factory diagnostic tests. |
| JU153 | U15 SDA | 1-2* | Connects U15 MAX7324 to I ² C bus. |
| | | Open | Disconnects U15 MAX7324 from I ² C bus. MS can be high (SW1). |
| JU154 | U15 SCL | 1-2* | Connects U15 MAX7324 to I ² C bus. |
| | | Open | Disconnects U15 MAX7324 from I ² C bus. MS can be high (SW1). |

*Default position.

Table 2. Jumper Descriptions (MAX9273 Coax EV Kit Configurations)

| JU_CONF1 | CONF1 | JU_CONF0 | CONF0 | OUTPUT CONNECTION | PCLKIN LATCH EDGE | CONTROL CHANNEL |
|----------|-------|----------|-------|-------------------|-------------------|--------------------------------------|
| 1-4 | Low | 1-4 | Low | Coax | Falling | I ² C-to-I ² C |
| | | 1-3 | Mid | Coax | Falling | UART-to-I ² C/UART |
| | | 1-2 | High | Coax | Rising | I ² C-to-I ² C |
| 1-3* | Mid | 1-4* | Low | Coax | Rising | UART-to-I ² C/UART |
| | | 1-3 | Mid | Do not use | Do not use | Do not use |
| | | 1-2 | High | Do not use | Do not use | Do not use |
| 1-2 | High | 1-4 | Low | Do not use | Do not use | Do not use |
| | | 1-3 | Mid | Do not use | Do not use | Do not use |
| | | 1-2 | High | Reserved | Reserved | Reserved |

*Default position.

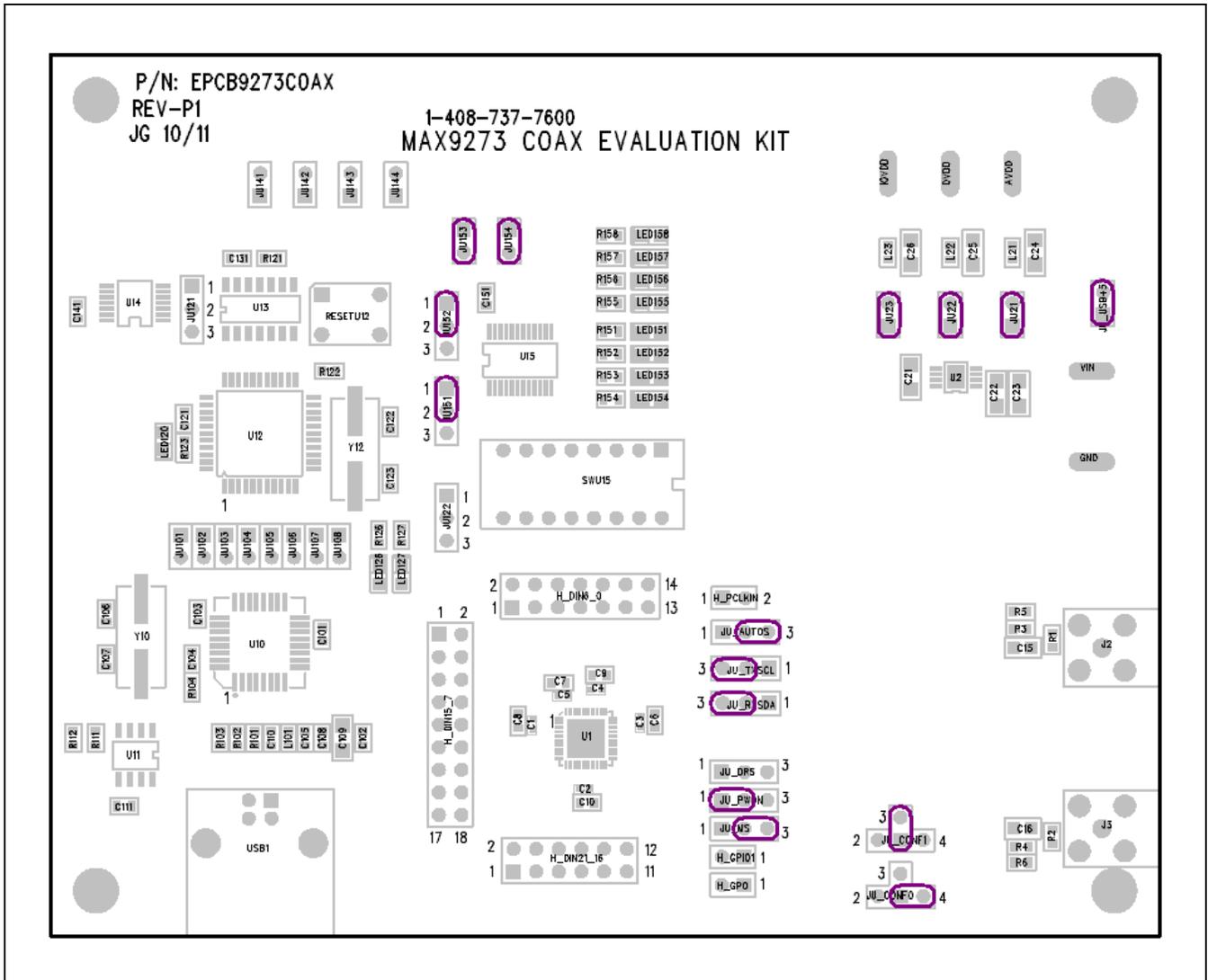


Figure 9. Initial Jumper Settings for I2C Mode

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273 with FAKRA Coaxial Cable

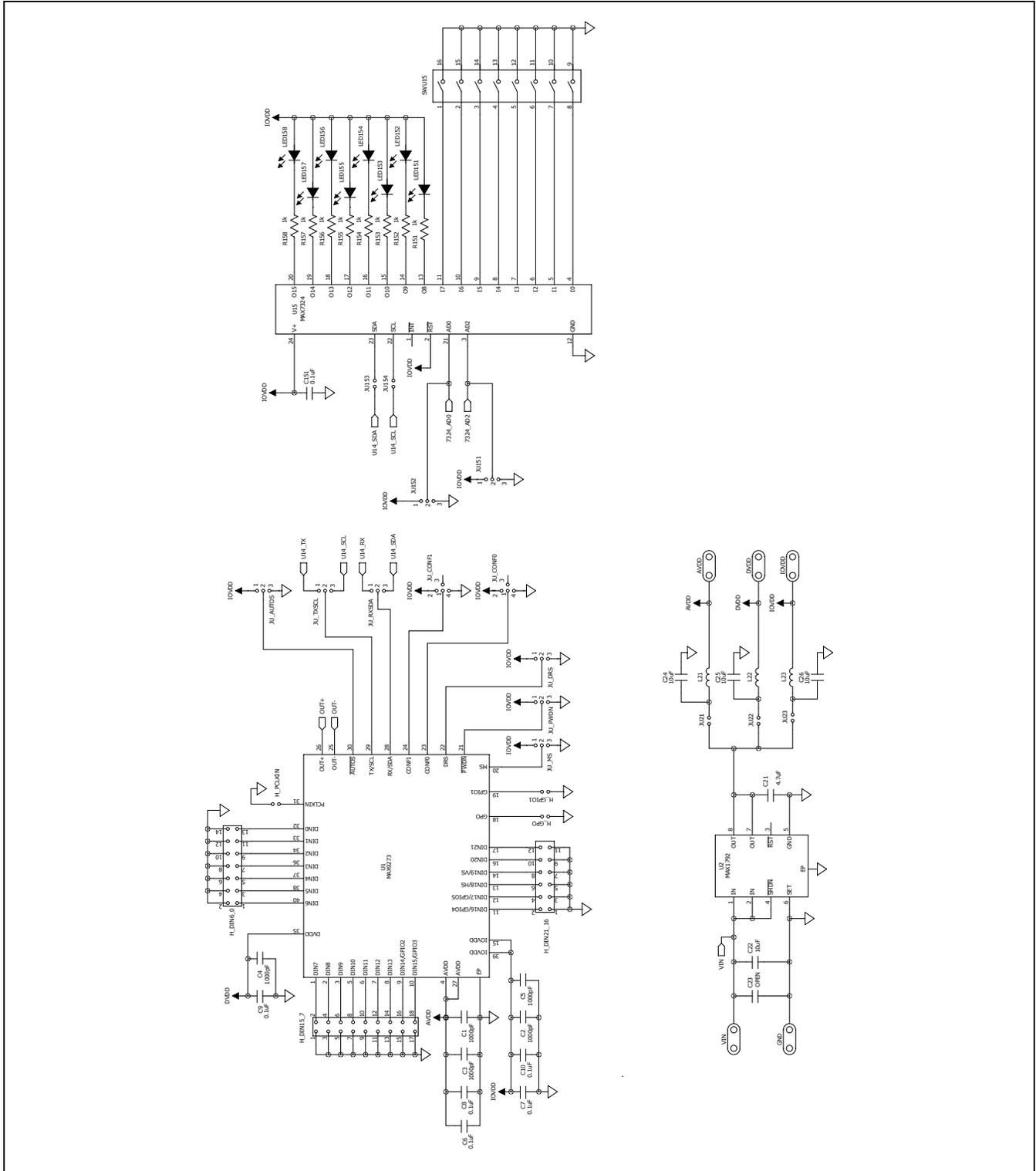
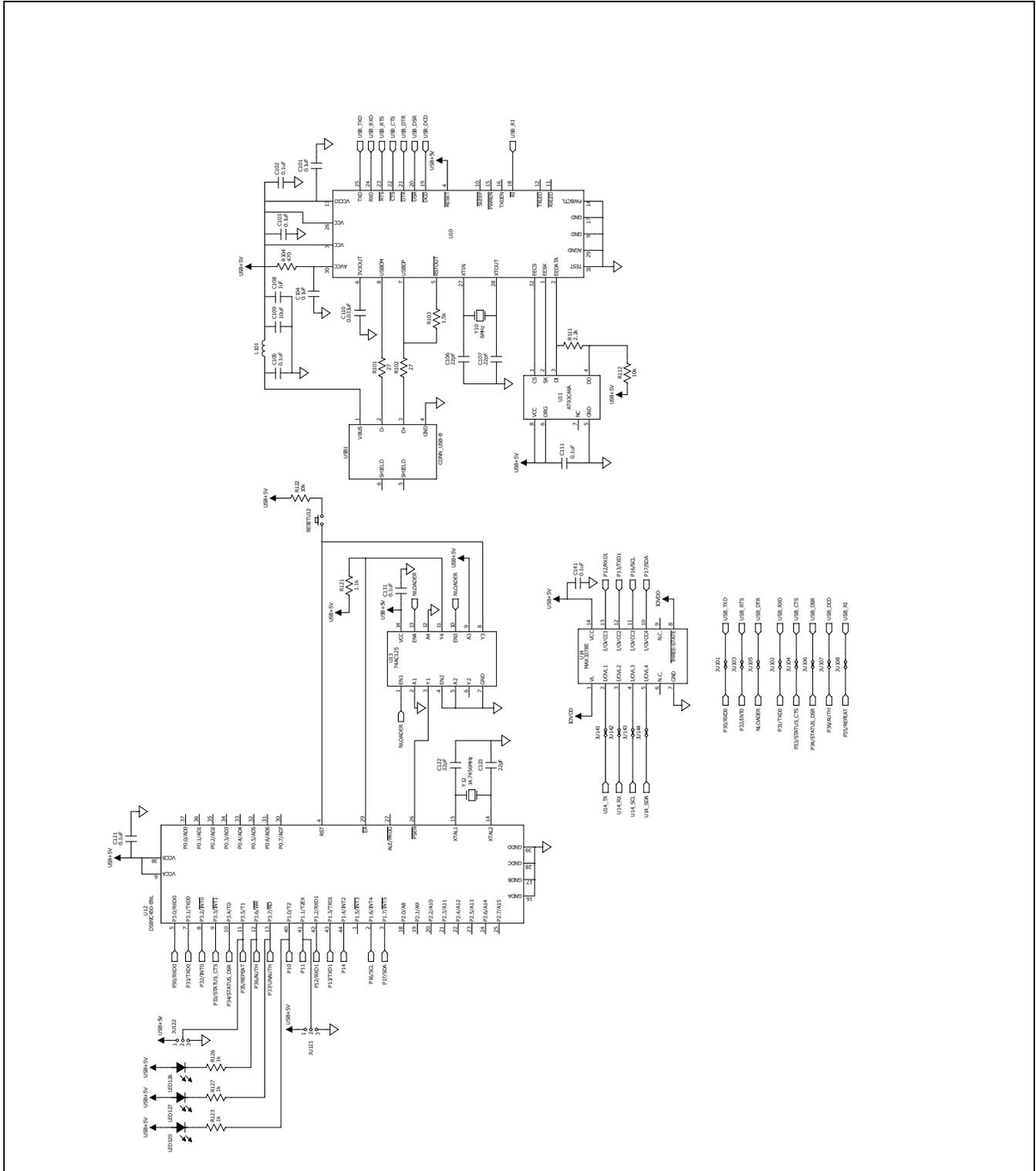


Figure 10a. MAX9273 Coax EV Kit Schematic (Sheet 1 of 3)

MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273
with FAKRA Coaxial Cable



MAX9273 Coax Evaluation Kit

Evaluates: MAX9272/MAX9273
with FAKRA Coaxial Cable

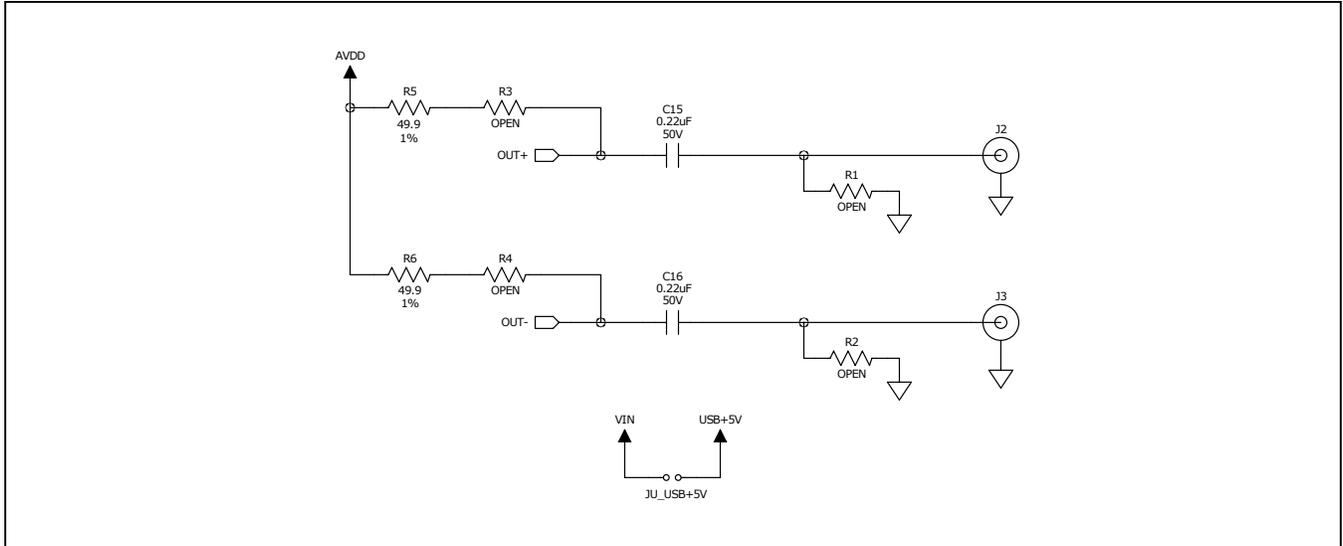


Figure 10c. MAX9273 Coax EV Kit Schematic (Sheet 3 of 3)

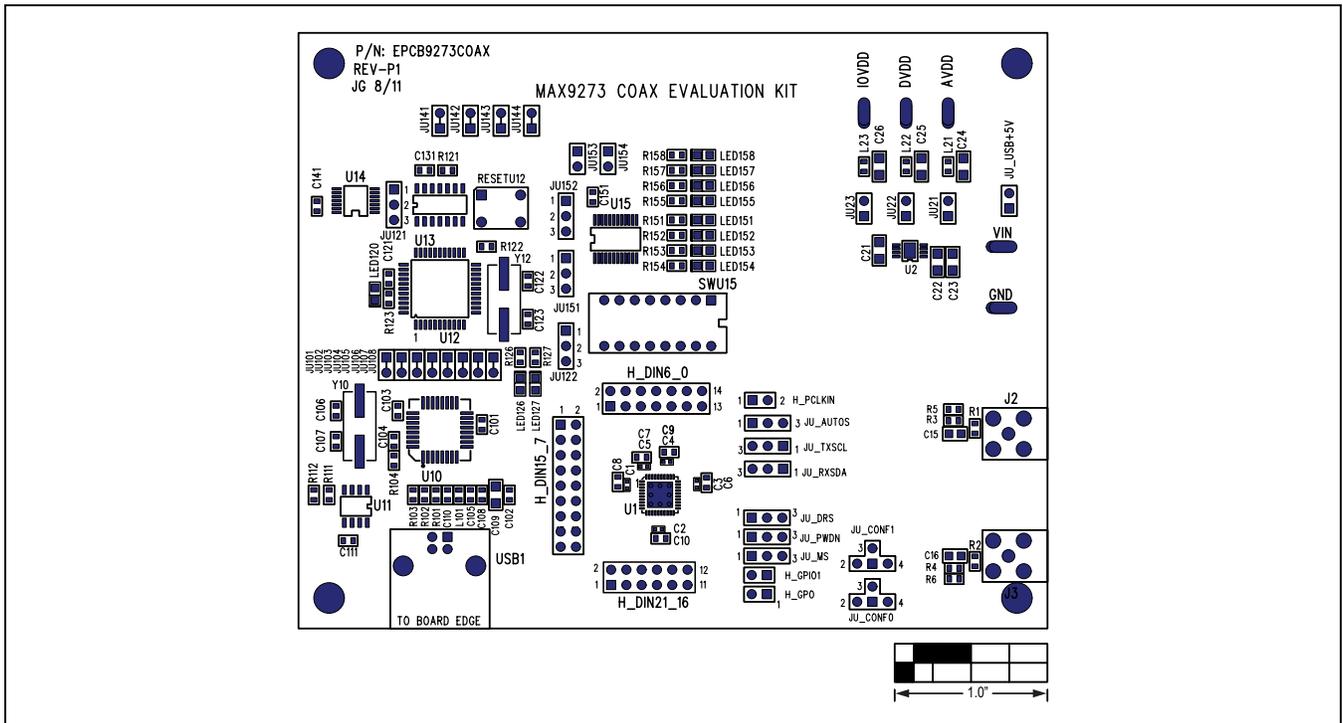


Figure 11. MAX9273 Coax EV Kit Component Placement Guide—Component Side

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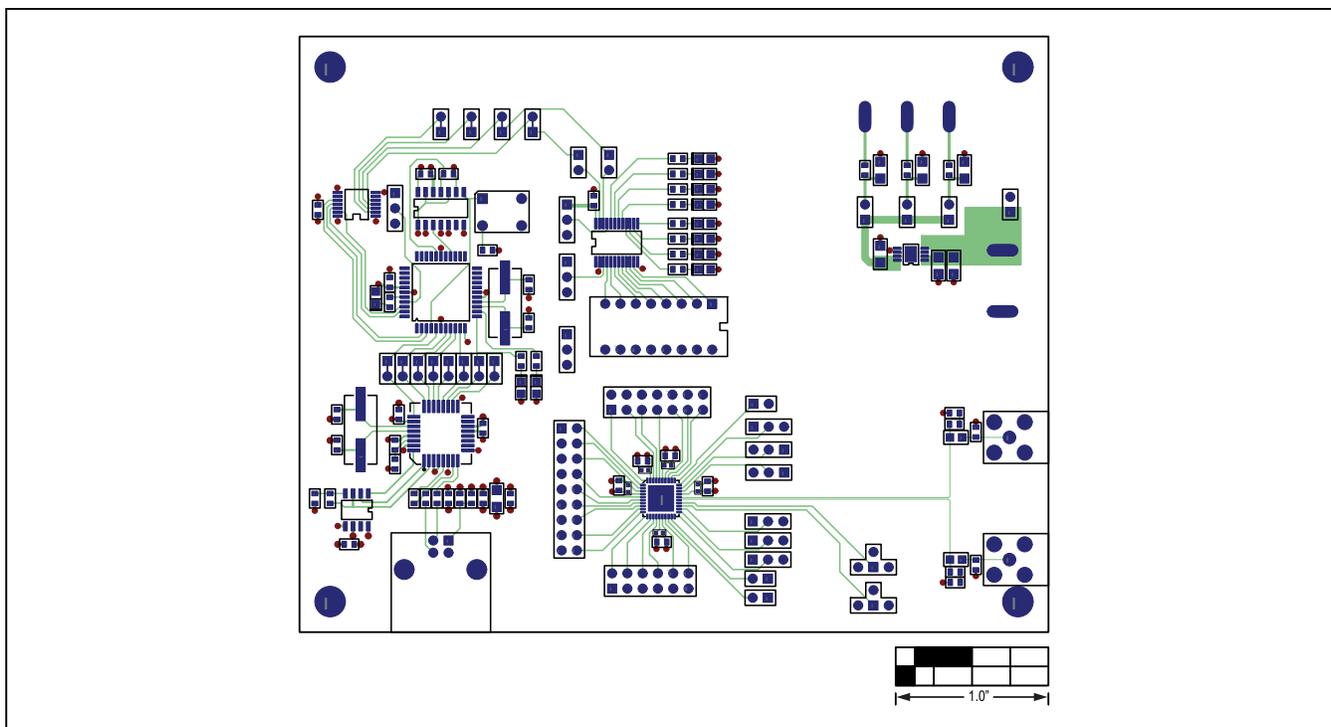


Figure 12. MAX9273 Coax EV Kit PCB Layout—Component Side

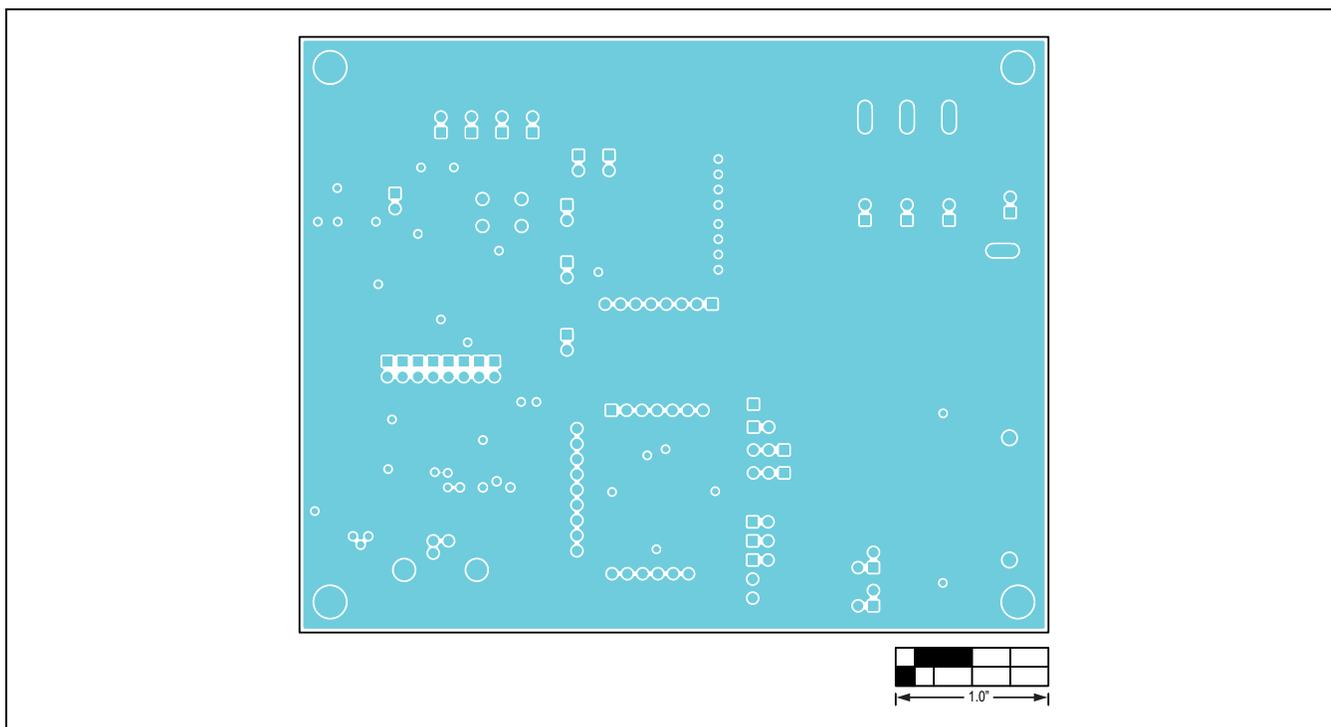


Figure 13. MAX9273 Coax EV Kit PCB Layout—Ground Layer 2

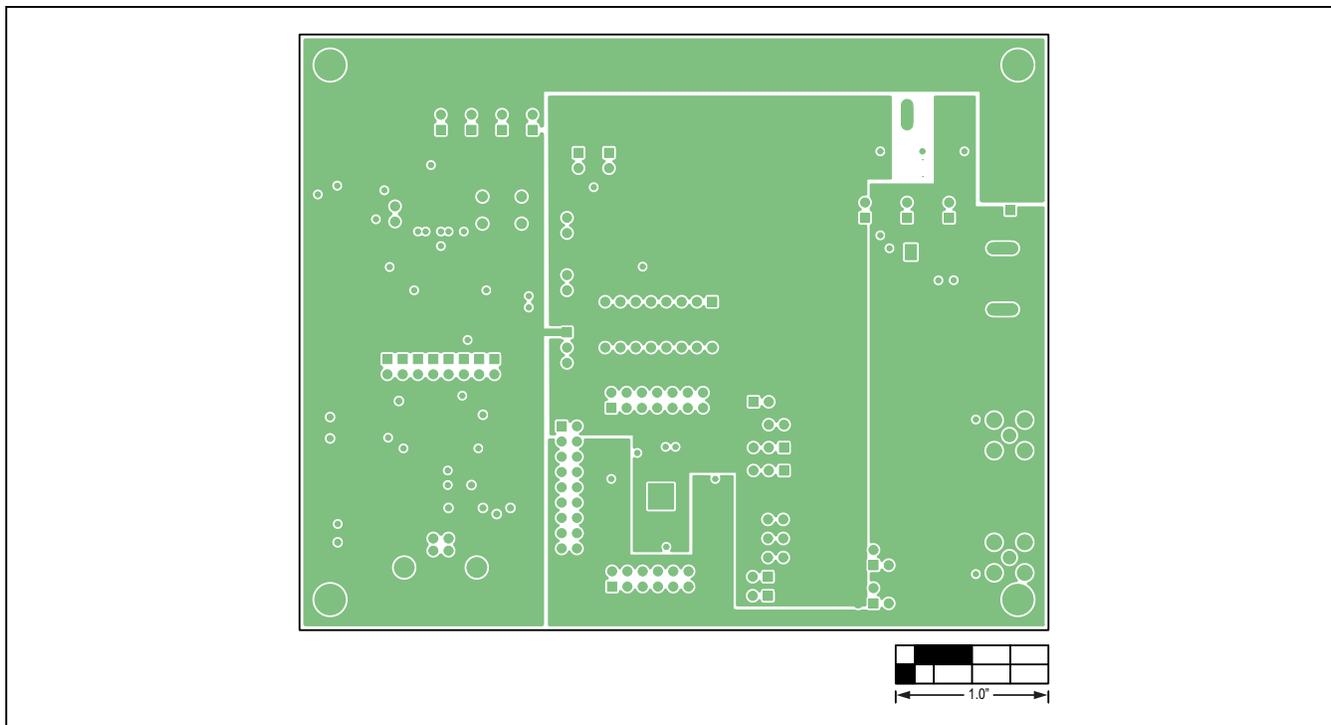


Figure 14. MAX9273 Coax EV Kit PCB Layout—Power Layer 3

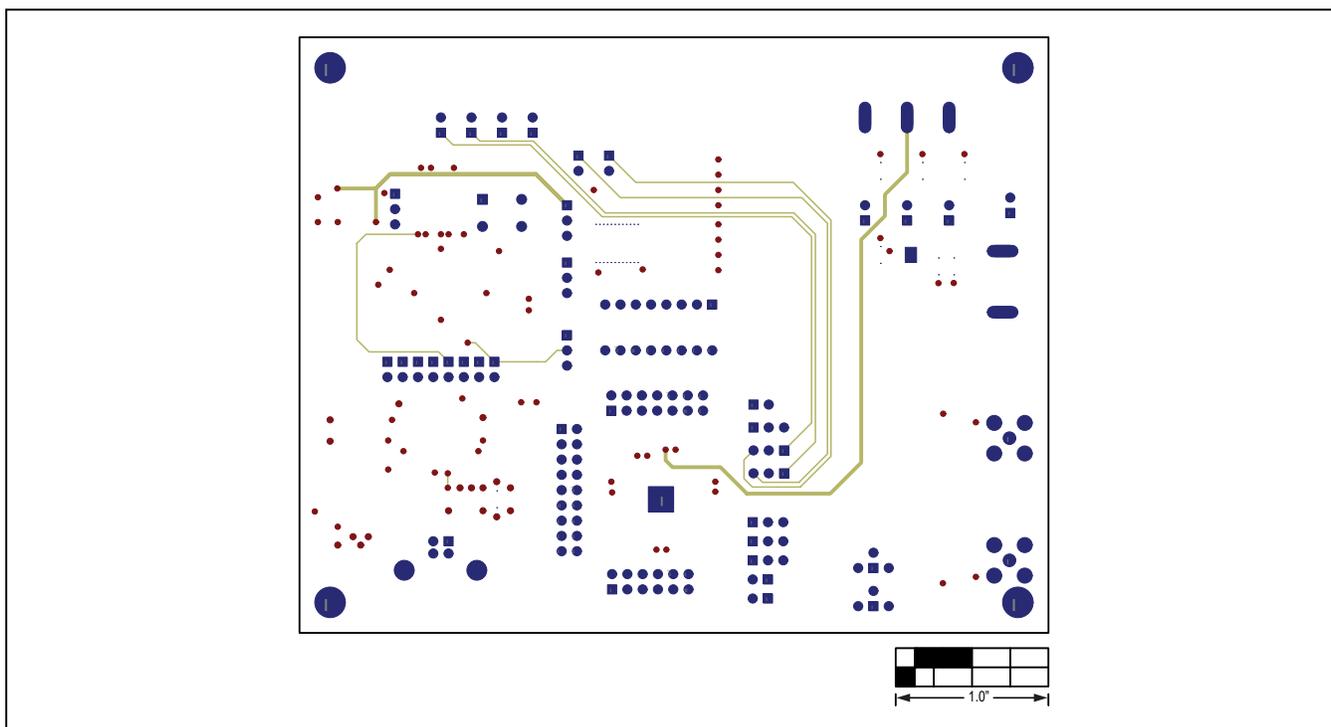


Figure 15. MAX9273 Coax EV Kit PCB Layout—Solder Side

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Ordering Information

| PART | TYPE |
|-------------------|--------|
| MAX9273COAXEVKIT# | EV Kit |

#Denotes RoHS compliant.

Note: The MAX9273 coax EV kit is normally ordered with its companion board, the MAX9272 coax EV kit.

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Revision History

| REVISION NUMBER | REVISION DATE | DESCRIPTION | PAGES CHANGED |
|-----------------|---------------|-----------------|---------------|
| 0 | 2/13 | Initial release | — |

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at www.maximintegrated.com.

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