

General Description

The MAX20810 evaluation kit (EV kit) is a reference design platform designed for evaluation of the MAX20810, a single-output, fully integrated, highly efficient, step-down DC-DC switching regulator with PMBus™ interface. The MAX20810 has an internal 1.8V LDO output to power the gate drives (V_{CC}) and internal circuitry (AVDD). The device also has an optional LDO input pin (LDOIN), allowing connection from a 2.5V to 5.5V bias input supply for optimized efficiency. The EV kit is capable to deliver up to 10A to the load. The EV kit package is a fully assembled and tested multilayer PCB implementation of high efficiency and high-power density.

The selection of key converter configuration parameters, acting on two external resistors, allows design flexibility to match several application scenario requirements.

Refer to the MAX20810 IC data sheet for detailed information regarding the description, features, benefits, and parameters.

Features and Benefits

- Wide 2.7V to 16V Input Voltage Range
- 0.4V to 5.8V Output Voltage Range
- Selectable: Switching Frequency, OCP Threshold, DEM Feature, DCM Mode, Voltage Loop Gain and PMBus Address
- High Efficiency and Power Density
- Low Component Count
- Proven PCB Layout
- Fully Assembled and Tested for Basic Functionality

Ordering Information appears at end of data sheet.

PMBus is a trademark of SMIF, Inc.

Quick Start

Required Equipment

- MAX20810 EV Kit
- MAX20810 EV Kit Data Sheet (This Document)
- 2.7V to 16V Power Supply with Optional 3.3V External Power Supply

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- 0 to 10A Load
- Digital Multimeters
- Oscilloscope and Probes
- · Windows PC with a Spare USB Port
- MAXPOWERTOOL002 USB-to-SMBus Interface (Order Separately)
- Maxim Digital PowerTool GUI Software

Procedure

The EV kit is fully assembled and tested. Follow the steps to install the EV kit software, make required hardware connections, and start operation of the kit.

Note: Do not supply V_{IN} (VDDH) until the board has been correctly configured and with input and output cables connected. Follow the steps to verify basic board operations and to run the EV kit.

- Visit the Analog Devices website to download and install the latest version of the <u>Digital PowerTool</u> <u>Software</u>.
- 2. Connect the USB cable from the PC to the MAXPOWERTOOL002 interface adapter.
- 3. Connect the adapter ribbon cable to the matching header J1 on the EV kit, ensuring that J1-Pin1 is adiacent to the red wire on the ribbon cable.
- 4. Connect a powered-off 2.7V to 16V input supply to J5 (positive terminal) and J8 (negative terminal). Optionally, connect the supply sense leads to TP4 (positive sense) and TP7 (negative sense) for best accuracy. If external bias is preferred, connect a powered-off 3.3V power supply to TP3 (positive terminal) and TP6 (negative terminal).
- Connect the electronic load to the outputs at screw terminals ST1 and ST2, being careful to observe the VOUT and GND polarity indicated by the silkscreen labels.
- 6. Verify that the position of each jumper on the board is correct according to the configuration that needs to be tested (see *Table 1* for the jumpers).
- Connect the V_{OUT} scope probe/multimeter to TP8 (positive) and TP11 (negative).

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- 8. Turn on the power supply.
- 9. Start the GUI software. The **Dashboard** window should appear as shown in *Figure 1*.
- Enable the IC by positioning the SW1 toggle switch or by setting the OPERATION and ON_OFF_CONFIG commands in the PowerTool GUI.
- 11. Enable the electronic load, if applicable.
- 12. Observe that $V_{OUT} = 1V$.

MAX20810 EV Kit Photo

13. For efficiency measurement, J4 is used to measure V_{IN} , and J6 is used to measure V_{OUT} .

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Note: VLDOIN on the PCB is the same as AUX3P3_EXT on the schematic; VIN on the PCB is the same as VDDH on the schematic; VCC on the PCB is the same as 1.8V_VCC on the schematic.

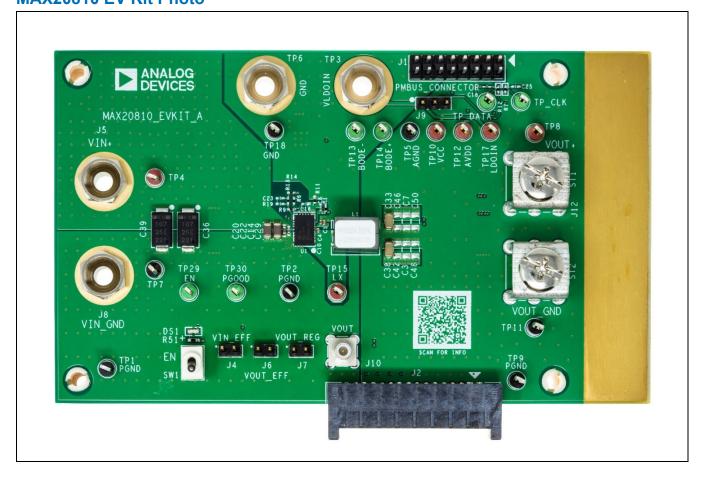


Table 1. Jumper Connection Guide

| JUMPER | DEFAULT CONNECTION | FEATURE | | |
|--------|-----------------------|---|--|--|
| J9 | SHORT 2-3 | Use internal 1.8V V _{CC} for PMBus communication | | |
| J4 | OPEN | V _{IN} efficiency sensor point | | |
| J6 | OPEN | VOUT efficiency sensor point | | |
| J7 | OPEN | V _{OUT} regulation test point | | |

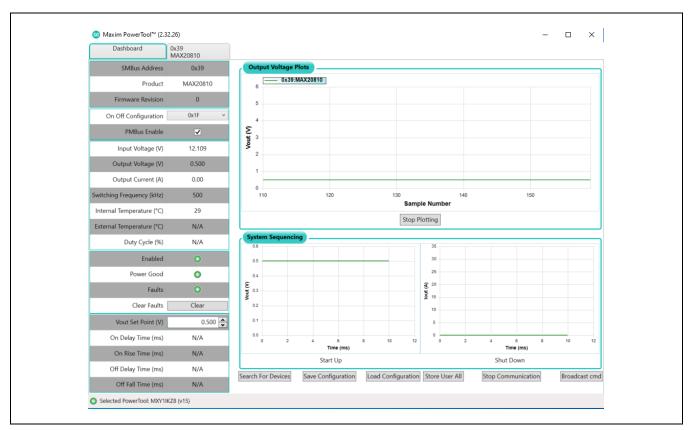


Figure 1. Maxim PowerTool Graphical User Interface Software Dashboard Window

Detailed Description of Software

The PowerTool software presents system-level information on the **Dashboard** tab. This view collects basic information for all Analog Devices PMBus devices found on the bus. This tab configures sequencing and output voltage levels, and presents an overview of the system status. Clicking the **Stop Communication** button stops all PMBus transactions from the PowerTool GUI. To force detection of all active devices on the bus, click the **Search for Devices** button.

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For detailed information on a particular device, click on the sub-tab for that device's peripheral address. This opens a view with a set of further sub-tabs specific to that device as shown in <u>Figure 2</u>. The sub-tabs available vary depending on the GUI version and the connected device's capability, but typically include **Configuration**, **Monitor**, **Faults Set**, and **PMBus Command**.

The **Configuration** tab presents the most commonly used PMBus command data in human-readable form. The device status is updated by continuous polling of these commands. Configuration settings for an individual device can be saved to or restored from an external file. PMBus command settings can be saved to or restored from the device's internal nonvolatile memory as well.

The **Monitor** tab shows continuously updated telemetry data from the device. Rolling plots of output voltage, input voltage, output current, and temperature data are shown, including indication of fault limits relative to the operating point.

The **Faults Set** tab allows the user to configure and monitor the status of most protection and warning functions. The fault levels and fault response commands are configured from this tab. The full contents of the STATUS_ register commands are available by clicking the **View Fault/Warning bit by bit** button. Fault and warning flags are cleared by clicking the **Clear Fault/Warning** button, which sends the CLEAR_FAULTS PMBus command to the device.

The **PMBus Command** tab shows all supported PMBus commands in a series of sub-tabs, allowing detailed configuration and analysis of the command values. The user can view the command values in hexadecimal or decimal format by checking or clearing the **Force Hex** checkbox. The **Use PEC** checkbox enables or disables Packet Error Checking for all GUI communications. Note that the command data is continuously updated by polling; typing a new value into the text boxes causes the new value to be sent to the device.

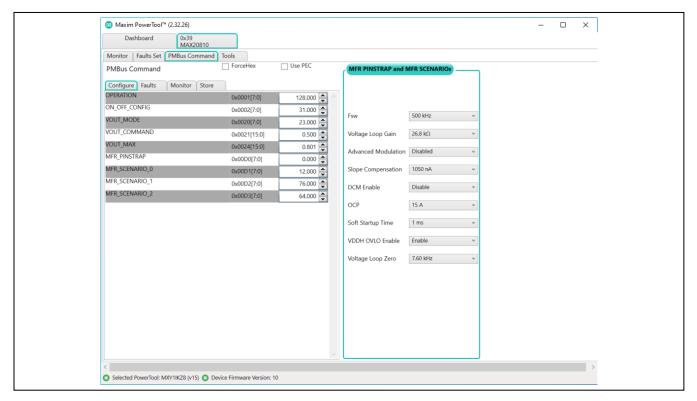


Figure 2. Detailed View for One Device; Configuration Sub-Tab

Detailed Description of Hardware

This evaluation kit should be used with the following documents:

- MAX20810 IC data sheet
- MAX20830/MAX20815/MAX20810 PMBus Command Set User Guide
- MAX20810 EV kit data sheet (this document)
- MAXMINILOADEVKIT datasheet (optional)

For the latest versions of the documents listed above, refer to the MAX20810 product page.

Bode Plot

A 10Ω resistor is installed between the VOUT sense point and SNSP pin in series with the top divider resistor to measure the Bode plot. TP13 and TP14 test points are provided on the board on either side of the 10Ω resistor for small signal injection and the ability to measure the Bode plot for V_{OUT} .

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Operation

The MAX20810 IC is a monolithic, single-output, high-frequency, step-down converter with PMBus interface and optional external bias LDO, optimized for applications requiring high-power density and high efficiency. Detailed product and application information is provided in the MAX20810 IC data sheet.

Output Enable (EN)

The EN pin is used to enable/disable the operation and so the output voltage. On the EV kit board, the selection switch SW1 is present to allow enabling and disabling the regulator.

Output Voltage Selection

The MAX20810 EV kit is set up to initially boot up to an output voltage of 1V. The device has a default 0.5V reference voltage. The reference voltage can be adjusted by the PMBus VOUT_COMMAND from 0.4V to 0.8V with 1.95mV resolution. When the output voltage is higher than V_{REF} , it is accomplished by placing a voltage-divider in the feedback path.

 $V_{OUT} = V_{REF} \times (1 + R_{FB1}/R_{FB2})$

where:

 V_{OUT} = Output voltage

 V_{REF} = Reference voltage

 R_{FB1} = Top divider resistor

 R_{FB2} = Bottom divider resistor

Soft-Start

When VDDH (VIN) and EN are above their rising thresholds, soft-start begins, and switching is enabled. The output voltage of the enabled output starts to ramp up. The default soft-start ramp time is 1ms. The 3ms soft-startup time option can be selected by using the PMBus MFR_SCENARIO_1 command. The device supports smooth startup with the output prebiased.

Switching Frequency

Switching frequency is a programmable parameter, and PGM1 is used to select the switching frequency. For the EV kit, switching frequency is set to 500kHz by default. Refer to the *PGM1 Switching Frequency and Scenario Selection* table (Table 2) in the IC data sheet. Switching frequency can also be changed by using the PMBus MFR PINSTRAP command.

Pin-Strap Programmability

The EV kit provides an option to configure the part for desired application using PGMx resistor values. Refer to Table 1 and Table 2 in the IC data sheet. Appropriate values of resistors R2 and R5 can be used for the desired application.

Transient

The EV kit provides an option to connect to MAXIM MINILOAD fast transient load generator to perform a fast load transient testing through J2 connector. Refer to MAXMINILOADEVKIT data sheet for more details.

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Status Monitoring

Whenever the part is actively regulating and the output voltage is within the power-good window, the PGOOD pin is high. In all other conditions, including enabled but in a fault state, the PGOOD pin is pulled low. The detailed fault can be viewed in the GUI. Refer to the MAX20810 IC data sheet for more details.

Input-Voltage Monitoring

The input supply can be monitored on TP4 for VDDH (VIN) and TP7 for GND.

Switching-Voltage Monitoring

The switching waveform can be monitored on TP15 for LX and TP2 for PGND.

Output-Voltage Monitoring

TP8 and TP11 monitor the output voltage. These test points should not be used for loading.

Efficiency Testing

J4 is provided to measure V_{IN} (VDDH) during efficiency measurement. Additionally, J6 is provided to measure V_{OUT} during efficiency measurement.

Ordering Information

| PART | TYPE |
|----------------|--------|
| MAX20810EVKIT# | EV Kit |

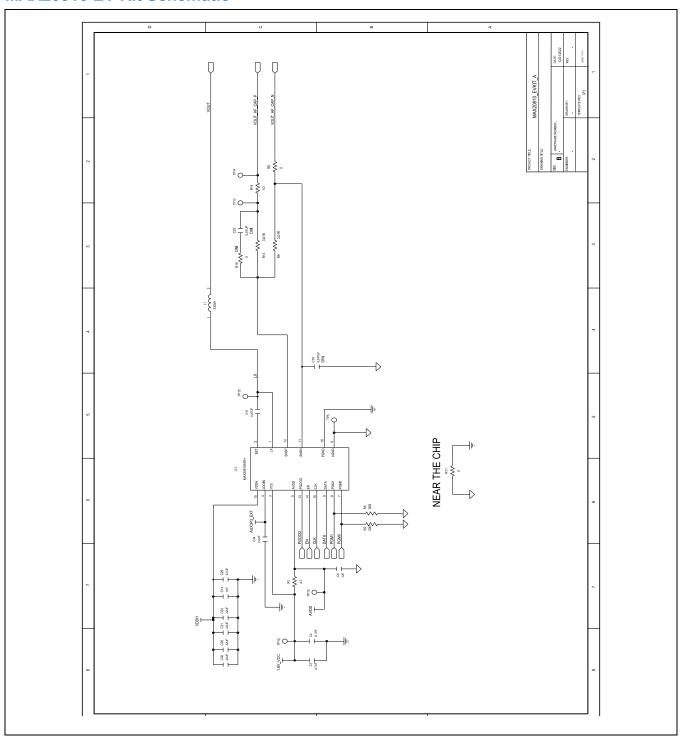
#Denotes RoHS-compliant.

MAX20810 EV Kit Bill of Materials

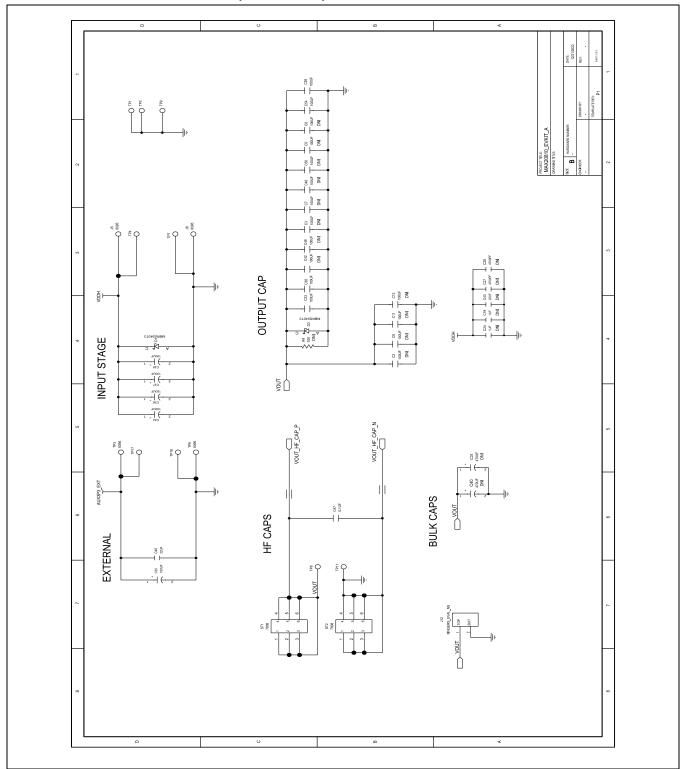
| ITE M | REF_DES | DNI/ DNP | QT Y | MFG_PART# | MFG | VALUE | DESCRIPTION | COMM |
|----------|-----------------------|-------------|---------|---|--|---------------------------|--|------|
| 1 | C1 | - | 1 | GRM155R60J475ME87; GRM153R60J475ME15; GRM155R60J475ME47 | MURATA;MURATA; MURATA | 4.7UF | CAP; SMT (0402); 4.7UF; 20%; 6.3V; X5R; CERAMIC | |
| 2 | C4 | - | 1 | GRM155R60J104KA01; C0402C104K9PAC | MURATA;KEMET | 0.1UF | CAP; SMT (0402); 0.1UF; 10%; 6.3V; X5R; CERAMIC | |
| 3 | C6 | - | 1 | CL05B105KQ5NQNC; GRM155R70J105KA12 | SAMSUNG ELECTRONICS; MURATA | 1UF | CAP; SMT (0402); 1UF; 10%; 6.3V; X7R; CERAMIC | |
| 4 | C10 | - | 1 | GRM155R60J474KE19 | MURATA | 0.47UF | CAP; SMT (0402); 0.47UF; 10%; 6.3V; X5R; CERAMIC | |
| 5 | C13 | - | 1 | C0402C101J5GAC; NMC0402NPO101J; CC0402JRNPO9BN101; GRM1555C1H101JA01; C1005C0G1H101J050BA | KEMET; NIC COMPONENTS CORP.; YAGEO PHICOMP; MURATA; TDK | 100PF | CAP; SMT (0402); 100PF; 5%; 50V; C0G; CERAMIC | |
| 6 | C14 | - | 1 | C1608X5R1E105M080AC | TDK | 1UF | CAP; SMT (0603); 1UF; 20%; 25V; X5R; CERAMIC | |
| 7 | C20-C22, C30, C45 | - | 5 | CL31X226KAHN3N; GRM31CC81E226KE11 | SAMSUNG;MURAT A | 22UF | CAP; SMT (1206); 22UF; 10%; 25V; X6S; CERAMIC | |
| 8 | C26 | - | 1 | C0402C102K5GAC | KEMET | 1000PF | CAP; SMT (0402); 1000PF; 10%; 50V; C0G; CERAMIC | |
| 9 | C29 | - | 1 | TMK105BJ104KV; GRM155R61E104KA87 | TAIYO YUDEN; MURATA | 0.1UF | CAP; SMT (0402); 0.1UF; 10%; 25V; X5R; CERAMIC | |
| 10 | C32, C36, C37, C39 | - | 4 | T521X107M025ATE060 | KEMET | 100UF | CAP; SMT (7343); 100UF; 20%; 25V; TANTALUM | |
| 11 | C33, C38, C54, C55 | - | 4 | GRM31CD80J107ME39 | MURATA | 100UF | CAP; SMT (1206); 100UF; 20%; 6.3V; X6T; CERAMIC | |
| 12 | C34 | - | 1 | C1005X7S0J225K050BC; GRM155C70J225KE11 | TDK;MURATA | 2.2UF | CAP; SMT (0402); 2.2UF; 10%; 6.3V; X7S; CERAMIC | |
| 13 | C35 | - | 1 | T491X107K025A | KEMET | 100UF | CAP; SMT (7343-43); 100UF; 10%; 25V; TANTALUM | |
| 14 | C47 | - | 1 | GRM155R71E104KE14; C1005X7R1E104K050BB; TMK105B7104KVH; CGJ2B3X7R1E104K050BB | MURATA;TDK; TAIYO YUDEN;TDK | 0.1UF | CAP; SMT (0402); 0.1UF; 10%; 25V; X7R; CERAMIC | |
| 15 | D1, D3 | - | 2 | MBRS540T3G | ON SEMICONDUCTOR | MBRS540 T3 | DIODE; SCH; SURFACE MOUNT SCHOTTKY POWER RECTIFIER; SMC; PIV=40V; IF=5A | |
| 16 | DS1 | - | 1 | LGL29K-G2J1-24-Z | OSRAM | LGL29K- G2J1-24-Z | DIODE; LED; SMARTLED; GREEN; SMT; PIV=1.7V; IF=0.02A | |
| 17 | J1 | - | 1 | TSW-108-07-T-D | SAMTEC | TSW-108- 07-T-D | CONNECTOR; MALE; THROUGH HOLE; TSW SERIES; 0.0125INCH SQUARE POST HEADER; STRAIGHT: 16PINS | |
| 18 | J2 | - | 1 | UPS-08-01-01-L-RA | SAMTEC | UPS-08- 01-01-L- RA | CONNECTOR; FEMALE; THROUGH HOLE; DUAL LEAF POWER HEADER; RIGHT ANGLE; 8PINS | |
| 19 | J4, J6, J7 | - | 3 | PCC02SAAN | SULLINS | PCC02SA AN | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT THROUGH; 2PINS; -65 DEGC TO +125 DEGC | |
| 20 | J5, J8, TP3, TP6 | - | 4 | 6095 | KEYSTONE | 6095 | CONNECTOR; FEMALE; PANELMOUNT; NON- INSULATED RECESSED HEAD BANANA JACK; STRAIGHT THROUGH; 1PIN | |
| 21 | J9 | - | 1 | PCC03SAAN | SULLINS | PCC03SA AN | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT THROUGH; 3PINS; -65 DEGC TO +125 DEGC | |
| 22 | J10 | - | 1 | 131-3701-266 | JOHNSON COMPONENTS | 131-3701- 266 | CONNECTOR; MALE; THROUGH HOLE; SMB JACK VERTICAL PCB MOUNT; STRAIGHT; 5PINS | |
| 23 | L1 | - | 1 | PA5034.331HLT | PULSE ELECTRONICS | 330NH | INDUCTOR; SMT; SHIELDED; 330NH; 15%; 40A | |
| 24 | MH1-MH4 | - | 4 | 9032 | KEYSTONE | 9032 | MACHINE FABRICATED; ROUND-THRU HOLE SPACER; NO THREAD; M3.5; 5/8IN; NYLON | |
| 25 | Q1 | - | 1 | BSS138 | ON SEMICONDUCTOR | BSS138 | TRAN; LOGIC LEVEL ENHANCEMENT MODE FIELD EFFECT TRANSISTOR; NCH; SOT-23; PD- (0.36W); I-(0.22A); V-(50V); -55 DEGC TO +150 DEGC | |
| 26 | R1 | - | 1 | CRCW04024R70FK | VISHAY DALE | 4.7 | RES; SMT (0402); 4.7; 1%; +/-100PPM/DEGC; 0.0630W | |
| 27 | R2 | - | 1 | ERJ-2RKF2000 | PANASONIC | 200 | RES; SMT (0402); 200; 1%; +/-100PPM/DEGC; 0.1000W | |
| 28 | R3 | - | 1 | TNPW040249R9BE; RG1005P-49R9-B-T; ERA-2AEB49R9 | VISHAY; SUSUMU CO LTD.; PANASONIC | 49.9 | RES; SMT (0402); 49.9; 0.10%; +/-25PPM/DEGC; 0.0630W | |
| 29 | R5 | - | 1 | ERJ-2RKF3090 | PANASONIC | 309 | RES; SMT (0402); 309; 1%; +/-100PPM/DEGC; 0.1000W | |
| 30 | R6 | - | 1 | RC0402FR-070RL | YAGEO | 0 | RES; SMT (0402); 0; 1%; JUMPER; 0.0630W | |
| 31 | R7, R12 | - | 2 | ERJ-2RKF3301 | PANASONIC | 3.3K | RES; SMT (0402); 3.3K; 1%; +/-100PPM/DEGC; 0.1000W | |
| 32 | R9, R13 | - | 2 | CRCW04023K01FK | VISHAY DALE | 3.01K | RES; SMT (0402); 3.01K; 1%; +/-100PPM/DEGC; 0.0630W | |
| 33 | R11 | - | 1 | RC0402JR-070RL; CR0402-16W-000RJT | YAGEO PHYCOMP; VENKEL LTD. | 0 | RES; SMT (0402); 0; 5%; JUMPER; 0.0630W | |

| 34 | R14 | - | 1 | ERJ-2RKF10R0 | PANASONIC | 10 | RES; SMT (0402); 10; 1%; +/-100PPM/DEGC; 0.1000W |
|----|---|-----|----|--|-------------------------------|------------------|--|
| 35 | R16, R41 | - | 2 | CRCW040220K0FK | VISHAY DALE | 20K | RES; SMT (0402); 20K; 1%; +/-100PPM/DEGC; 0.0630W |
| 36 | R42 | - | 1 | RC0603FR-07100RL; CR0603-FX-1000ELF | YAGEO;BOURNS | 100 | RES; SMT (0603); 100; 1%; +/-100PPM/DEGC; 0.1000W |
| 37 | R51 | - | 1 | ERJ-3EKF2100 | PANASONIC | 210 | RES; SMT (0603); 210; 1%; +/-100PPM/DEGK; 0.1000W |
| 38 | ST1, ST2 | - | 2 | 7808 | KEYSTONE | 7808 | TERMINAL; BODY LENGTH=0.67IN; BODY WIDTH=0.47IN; HEIGHT=0.45IN; SCRW; BRASS |
| 39 | SW1 | - | 1 | GT21MCBE | C&K COMPONENTS | GT21MCB E | SWITCH; DPDT; THROUGH HOLE; 20V; 0.4VA; GT SERIES; SEALED ULTRAMINIATURE TOGGLE SWITCH; RCOIL= 0.05 OHM; RINSULATION=10G OHM; C&K COMPONENTS |
| 40 | TP1, TP2, TP5, TP7, TP9, TP11, TP18 | - | 7 | 5011 | KEYSTONE | N/A | TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; |
| 41 | TP4, TP8, TP10, TP12, TP15, TP17 | - | 6 | 5010 | KEYSTONE | N/A | TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; RED; PHOSPHOR BRONZE WIRE SIL; |
| 42 | TP13, TP14, TP29, TP30, TP_CLK, TP_DATA | - | 6 | 5126 | KEYSTONE | N/A | TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; GREEN; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; |
| 43 | U1 | - | 1 | MAX20810AFE+ | ANALOG DEVICES | MAX20810 AFE+ | EVKIT PART - IC; MAX20810; 10A; 2MHZ; 2.7V TO 16V INTEGRATED STEP-DOWN SWITCHING REGULATOR; PACKAGE OUTLINE DRAWING: 21- 100528; LAND PATTERN NUMBER: 90-100191; PACKAGE CODE: F164A6F+2; FC2QFN16 |
| 44 | PCB | - | 1 | MAX20810 | ANALOG DEVICES | PCB | PCB:MAX20810 |
| 45 | C2, C3, C5, C7-C9, C11, C12, C42, C46, C48, C50 | DNP | 12 | GRM31CD80J107ME39 | MURATA | 100UF | CAP; SMT (1206); 100UF; 20%; 6.3V; X6T; CERAMIC |
| 46 | C16 | DNP | 1 | C0402C473J8RAC | KEMET | 0.047UF | CAP; SMT (0402); 0.047UF; 5%; 10V; X7R; CERAMIC |
| 47 | C18, C25 | DNP | 2 | C0402C479D8GAC | KEMET | 4.7PF | CAP; SMT (0402); 4.7PF; +/-0.5PF; 10V; C0G; CERAMIC |
| 48 | C19, C24 | DNP | 2 | C1608X5R1E105M080AC | TDK | 1UF | CAP; SMT (0603); 1UF; 20%; 25V; X5R; CERAMIC |
| 49 | C23 | DNP | 1 | C0402C103J3RAC | KEMET | 0.01UF | CAP; SMT (0402); 0.01UF; 5%; 25V; X7R; CERAMIC |
| 50 | C27, C28 | DNP | 2 | GRM155R71E472KA01 | MURATA | 4700PF | CAP; SMT (0402); 4700PF; 10%; 25V; X7R; CERAMIC |
| 51 | C31, C40 | DNP | 2 | T491X477K010AT | KEMET | 470UF | CAP; SMT (7343); 470UF; 10%; 10V; TANTALUM |
| 52 | C43 | DNP | 1 | CL31X226KAHN3N; GRM31CC81E226KE11 | SAMSUNG;MURAT A | 22UF | CAP; SMT (1206); 22UF; 10%; 25V; X6S; CERAMIC |
| 53 | R4 | DNP | 1 | ERJ-P08J101 | PANASONIC | 100 | RES; SMT (1206); 100; 5%; +/-200PPM/DEGC; 0.6600W |
| 54 | R19 | DNP | 1 | RC0402JR-070RL; CR0402-16W-000RJT | YAGEO PHYCOMP; VENKEL LTD. | 0 | RES; SMT (0402); 0; 5%; JUMPER; 0.0630W |

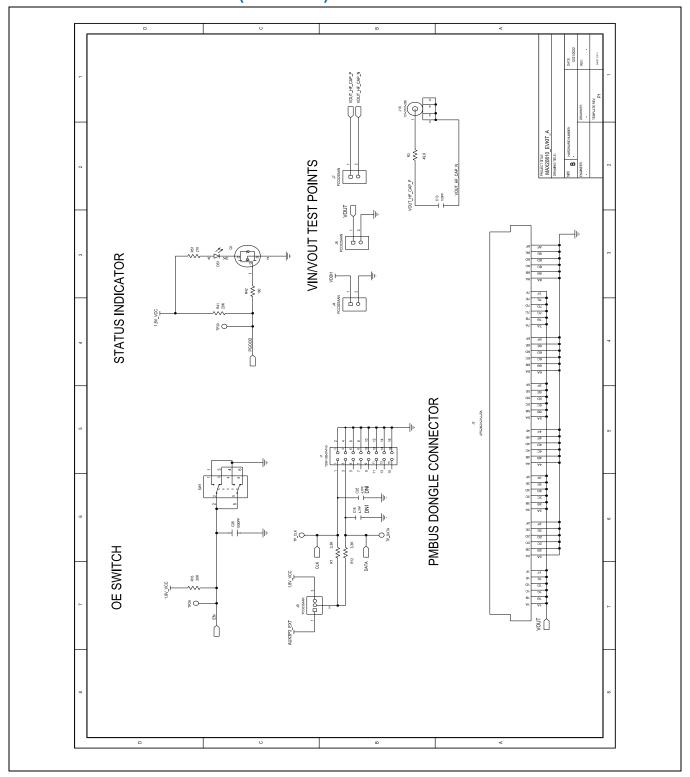
MAX20810 EV Kit Schematic



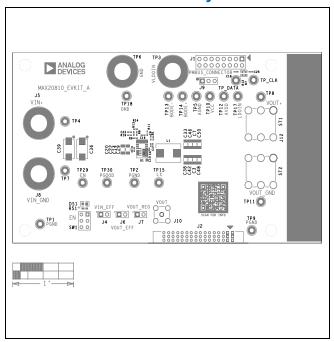
MAX20810 EV Kit Schematic (continued)



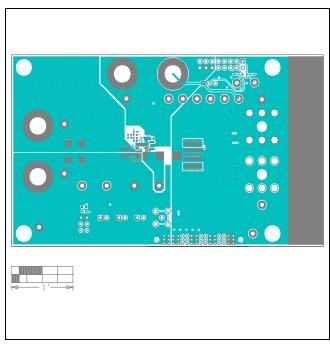
MAX20810 EV Kit Schematic (continued)



MAX20810 EV Kit PCB Layout

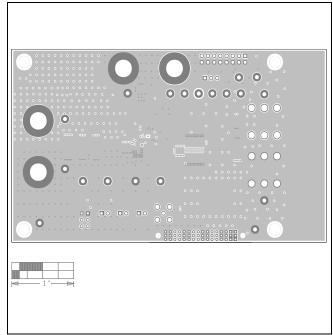


MAX20810 EV Kit Component Placement Guide—Top Silkscreen

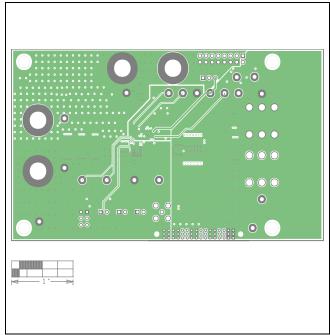


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MAX20810 EV Kit PCB Layout—Top

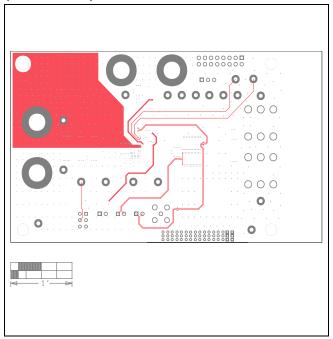


MAX20810 EV Kit PCB Layout—Layer 2

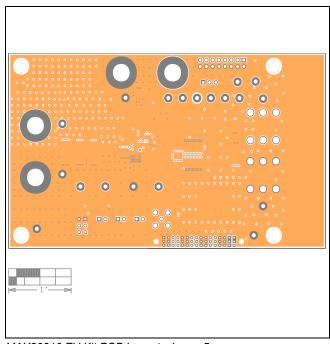


MAX20810 EV Kit PCB Layout—Layer 3

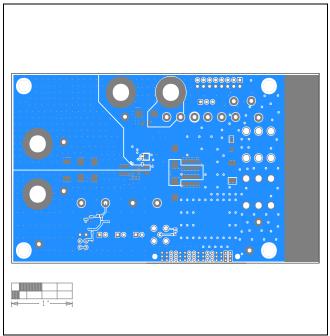
MAX20810 EV Kit PCB Layout (continued)



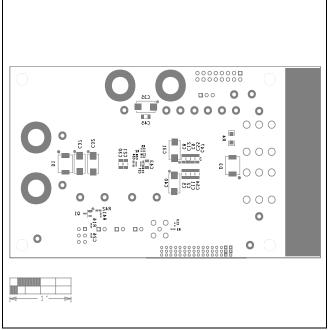
MAX20810 EV Kit PCB Layout—Layer 4



MAX20810 EV Kit PCB Layout—Layer 5



MAX20810 EV Kit PCB Layout—Bottom



MAX20810 EV Kit Component Placement Guide—Bottom Silkscreen

Revision History

| REVISION NUMBER | REVISION DATE | DESCRIPTION | | | |
|--------------------|------------------|-----------------|---|--|--|
| 0 | 6/23 | Initial release | _ | | |



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