

MAX20812 Evaluation Kit

Evaluates: MAX20812

General Description

The MAX20812 evaluation kit (EV kit) is a reference platform designed for the evaluation of the MAX20812, a dual-output, compact, low-cost, fully integrated, highly efficient, step-down DC-DC switching regulator IC. The IC is available in a 21-pin, 3.5mm x 4.6mm, 0.5mm pitch, FC2QFN package. This EV kit can deliver up to 6A load per output. The two outputs can be connected as a single-output, dual-phase regulator that supports up to 12A load current. Refer to the MAX20812 IC data sheet for more information.

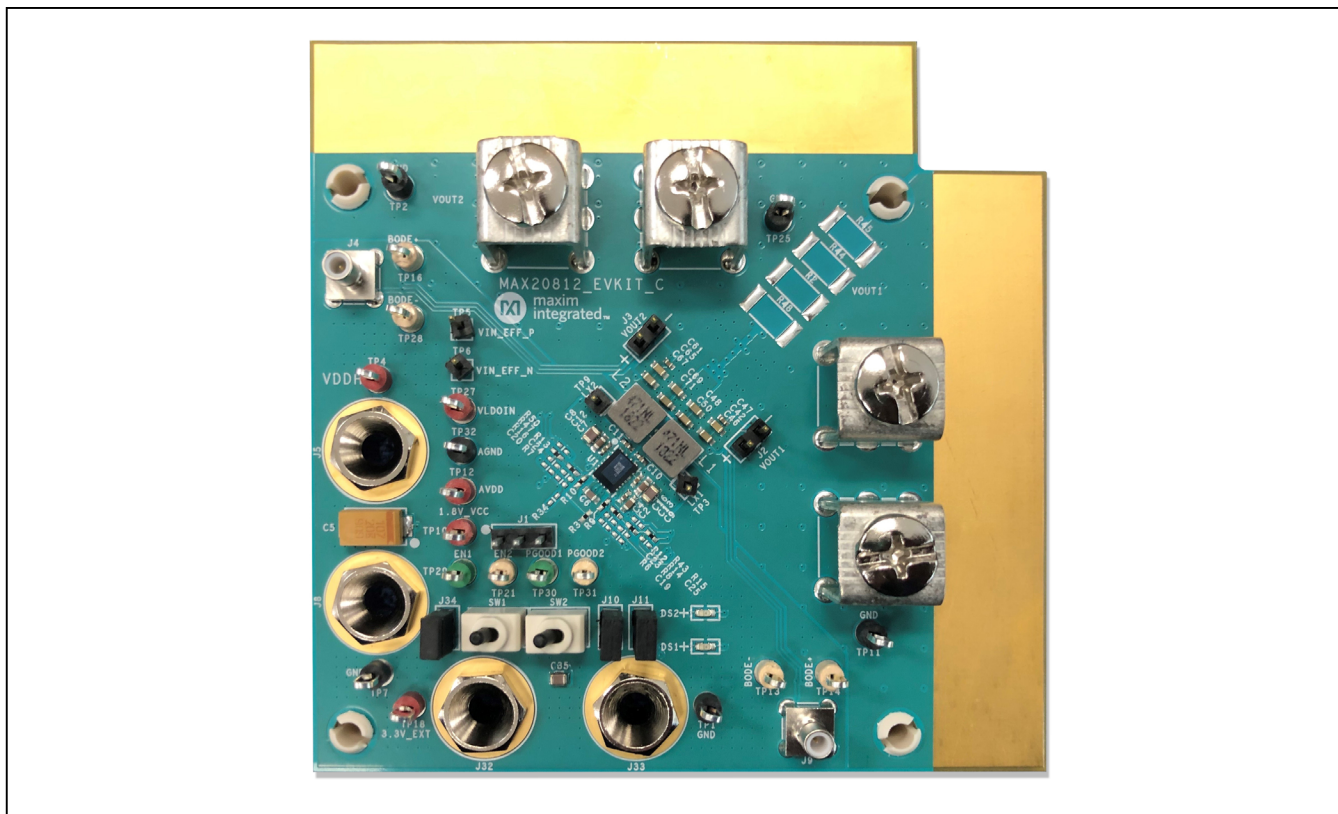
The EV kit comprises a fully assembled and tested PCB implementation of the MAX20812. Jumper pins, test points, and input/output connectors are included for flexibility and convenience in a wide range of applications.

Benefits and Features

- 2.7V to 16V Input Voltage Range
- 0.5V to 5.8V Output Voltage Range
- High Efficiency and Power Density
- Low Component Count
- Dual-Output or Single-Output Dual-Phase Operation
- Optimized Performance
- Proven PCB Layout
- Fully Assembled and Tested

Ordering Information appears at end of data sheet.

MAX20812 EV Kit Board



Quick Start

Required Equipment

- MAX20812 EV Kit
- 2.7V to 16V Power Supply with Optional 3.3V External Power Supply
- 0 to 12A Load
- Digital Voltmeters
- Oscilloscope and Probes

Procedure

The EV kit is fully assembled and tested, and is preset with MAX20812 dual-output operation, having 1V on rail 1 and 1.8V on rail 2. Use the following steps to verify board operation.

For dual-output operation:

- 1) Connect a powered-off 2.7V to 16V input supply to J5 (positive terminal) and J8 (negative terminal). Optionally, connect supply sense leads to TP5 (positive sense) and TP6 (negative sense) for best accuracy. If external bias is preferred, connect a powered-off 3.3V power supply to J32 (positive terminal) and J33 (negative terminal) with jumper J34 installed.
- 2) Connect the load to edge connector J12 for rail 1 or J13 for rail 2 (positive on the top and negative on the bottom).
- 3) Connect the V_{OUT} scope probe/voltmeter to J2 for rail 1 or J3 for rail 2.
- 4) Turn on the power supply.
- 5) Position the SW1 or SW2 toggle switch to enable the IC.
- 6) Observe that $V_{OUT1} = 1V$ and $V_{OUT2} = 1.8V$.
- 7) For efficiency measurements, TP5 and TP6 will be used to measure V_{IN} ; J2 and J3 will be used to measure V_{OUT1} and V_{OUT2} .

For dual-phase operation:

- 1) When configured to dual-phase operation, only the control loop for rail 1 will work and the control loop for rail 2 is bypassed. EN1 and PGOOD1 are used in dual-phase operation mode to enable the device and indicate power good status. EN2 and PGOOD2 can be disconnected.
- 2) Install a 0Ω resistor for R2, R44, R45, and R48 to short two rail outputs.
- 3) Remove R13 for rail 2 to disconnect the sense line,

and install a 0Ω resistor in R34 to pull SNSP2 to AVDD.

- 4) Use the same inductors for L1 and L2, or replace them with one two-phase couple inductor.
- 5) Repeat steps 1–6 from the dual-output operation procedure.

Operation

EV Kit Interface

The MAX20812 IC is a monolithic, dual-output, high-frequency, step-down switching regulator optimized for applications requiring small size and high efficiency. Detailed product and application information is provided in the MAX20812 IC data sheet.

Output Enable (OE)

OE is used to enable/disable the output voltage. For dual-output operation, rail 1 output voltage is enabled/disabled by SW1 and rail 2 output voltage is enabled/disabled by SW2. For single-output dual-phase operation, EN1 is used and EN2 can be disconnected.

Output-Voltage Selection

The MAX20812 EV kit is set up to initially boot up to an output voltage of 1V of rail 1 and 1.8V of rail 2. The device has a fixed 0.5V reference voltage, and the output voltage 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} = 0.5V fixed reference voltage

R_{FB1} = Top divider resistor

R_{FB2} = Bottom divider resistor

Soft-Start

When VDDH and EN are above their rising thresholds, soft-start begins, and switching is enabled. The soft-start ramp time is 3ms. The device supports smooth startup with the output prebiased.

Switching Frequency

Switching frequency is programmable—parameters and PGM0 are used to select the switching frequency. For the EV kit, the switching frequency is set to 1000kHz for rail 1 and 200kHz for rail 2. Refer to the PGM0 Configurations table (Table 1) in the MAX20812 IC data sheet.

Pin-Strap Programmability

The EV kit provides an option to configure the part for desired application using PGMx resistor values. Refer to the PGMx Configurations tables (Table 1 through Table 3) in the MAX20812 IC data sheet. Appropriate values of resistors R11, R21, and R35 can be used for the desired application.

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. Refer to the MAX20812 IC data sheet for more details.

Input-Voltage Monitoring

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

Switching-Voltage Monitoring

The switching waveform can be monitored on TP3 for LX1 and TP9 for LX2.

Output-Voltage Monitoring

J2 and J3 monitor the output voltage of rail 1 and rail 2, respectively. These test points should not be used for loading.

Efficiency Testing

TP5 (VIN_EFF_P) and TP6 (VIN_EFF_N) are provided to measure V_{IN} during efficiency measurement. Additionally, J2 and J3 are provided to measure V_{OUT1} and V_{OUT2} during efficiency measurement.

Bode Plot

A 10 Ω resistor is installed between the VOUTx sense point and SNSPx pin to measure the bode plot. TP13 and TP14 test points are provided on the board on either side of 10 Ω resistor for small signal injection and ability to measure bode plot for V_{OUT1} . TP28 and TP16 test points are provided on the board on either side of 10 Ω resistor for small signal injection and the ability to measure a Bode plot for V_{OUT2} .

Ordering Information

| PART | TYPE |
|----------------|--------|
| MAX20812EVKIT# | EV Kit |

#Denotes RoHS Compliant

MAX20812 EV Kit Bill of Materials

| ITEM | REF_DES | DNI/DNP | QTY | MFG PART # | MANUFACTURER | VALUE | DESCRIPTION |
|------|--|---------|-----|---|--|--------|---|
| 1 | C2 | — | 1 | C1608X5R1E475K080AC; GRM188R61E475KE11 | TDK; MURATA | 4.7UF | CAPACITOR; SMT (0603); CERAMIC CHIP; 4.7μF; 25V; TOL = 10%; TG = -55°C TO +85°C; TC = X5R |
| 2 | C3, C5, C34 | — | 3 | TPSD107K020R0085 | AVX | 100μF | CAPACITOR; SMT; 7343; TANTALUM; 100μF; 20V; 10%; TPS; -55°C to +125°C |
| 3 | C4, C7, C16, C31 | — | 4 | GRM155R71E104ME14 | MURATA | 0.1μF | CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1μF; 25V; TOL = 20%; TG = -55°C TO +125°C; TC = X7R |
| 4 | C6, C12, C13 | — | 3 | GRM188R71E105KA12; CGA3E1X7R1E105K; TMK107B7105KA; 06033C105KAT2A; GCM188R71E105KA64; C1608X7R1E105K080AE; CGA3E1X7R1E105K080AC | MURATA; TDK; TAIYO YUDEN; AVX; MURATA; TAIYO YUDEN; TDK | 1μF | CAPACITOR; SMT (0603); CERAMIC CHIP; 1μF; 25V; TOL = 10%; TG = -55°C TO +125°C; TC = X7R |
| 5 | C8, C9 | — | 2 | GRM21BC71E106KE11 | MURATA | 10μF | CAPACITOR; SMT (0805); CERAMIC CHIP; 10μF; 25V; TOL = 10%; TG = -55°C TO +125°C; TC = X7S |
| 6 | C10, C11 | — | 2 | LMK105B7474KV; GRM155R71A474KE01 | PANASONIC; MURATA | 0.47μF | CAPACITOR; SMT (0402); CERAMIC CHIP; 0.47μF; 10V; TOL = 10%; TG = -55°C TO +125°C; TC = X7R |
| 7 | C26, C30 | — | 2 | C0402C102K5GAC | KEMET | 1000PF | CAPACITOR; SMT (0402); CERAMIC CHIP; 1000PF; 50V; TOL = 10%; MODEL = ; TG = -55°C TO +125°C; TC = C0G |
| 8 | C27 | — | 1 | GRM188Z71C225KE43 | MURATA | 2.2μF | CAPACITOR; SMT (0603); CERAMIC CHIP; 2.2μF; 16V; TOL = 10%; TG = -55°C TO +125°C; TC = X7R |
| 9 | C29, C45 | — | 2 | C0402C101J5GAC; NMC0402NPO101J; CC0402JRNPO9BN101; GRM1555C1H101JA01; C1005C0G1H101J050BA; CGA2B2C0G1H101J050BA | KEMET; NIC COMPONENTS CORP; YAGEO PHICOMP; MURATA; TDK; TDK | 100PF | CAPACITOR; SMT (0402); CERAMIC CHIP; 100PF; 50V; TOL = 5%; TG = -55°C TO +125°C; TC = C0G |
| 10 | C35 | — | 1 | GRM21BZ70J226ME44 | MURATA | 22μF | CAP; SMT (0805); 22μF; 20%; 6.3V; X7R; CERAMIC CHIP; NOTE: PURCHASE DIRECT FROM THE MANUFACTURER |
| 11 | C32, C36, C37, C39, C42, C46, C48, C50, C60, C63, C65, C67, C69, C71 | — | 14 | GRM188C80J226ME15 | MURATA | 22μF | CAP; SMT (0603); 22μF; 20%; 6.3V; X6S; CERAMIC CHIP |

MAX20812 EV Kit Bill of Materials (continued)

| ITEM | REF_DES | DNI/DNP | QTY | MFG PART # | MANUFACTURER | VALUE | DESCRIPTION |
|------|--------------------------|---------|-----|---|----------------------------------|----------------------|---|
| 12 | C47, C61 | — | 2 | GRM155R71E104KE14; C1005X7R1E104K050BB; TMK105B7104KVH; CGJ2B3X7R1E104K050BB | MURATA; TDK; TAIYO YUDEN; TDK | 0.1 μ F | CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1 μ F; 25V; TOL = 10%; MODEL = GRM SERIES; TG = -55°C TO +125°C; TC = X7R |
| 13 | D1, D3, D4 | — | 3 | MBR540T3G | ON SEMICONDUCTOR | MBR540T3 | DIODE; SCH; SURFACE MOUNT SCHOTTKY POWER RECTIFIER; SMC; PIV = 40V; IF = 5A |
| 14 | DS1, DS2 | — | 2 | LGL29K-G2J1-24-Z | OSRAM | LGL29K- G2J1-24-Z | DIODE; LED; SMARTLED; GREEN; SMT; PIV = 1.7V; IF = 0.02A |
| 15 | J1 | — | 1 | PEC03SAAN | SULLINS | PEC03SAAN | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS |
| 16 | J2, J3, J10, J11, J34 | — | 5 | TSW-101-22-L-D | SAMTEC | TSW-101- 22-L-D | CONNECTOR; MALE; THROUGH HOLE; .025IN SQ POST HEADER; STRAIGHT; 2PINS |
| 17 | J4, J9 | — | 2 | 131-3701-266 | JOHNSON COMPONENTS | 131-3701- 266 | CONNECTOR; MALE; THROUGH HOLE; SMB JACK VERTICAL PCB MOUNT; STRAIGHT; 5PINS |
| 18 | J5, J8, J32, J33 | — | 4 | 6095 | KEYSTONE | 6095 | CONNECTOR; FEMALE; PANELMOUNT; NON-INSULATED RECESSED HEAD BANANA JACK; STRAIGHT THROUGH; 1PIN |
| 19 | L1, L2 | — | 2 | PA5003.471NLT | PULSE | 0.47 μ H | INDUCTOR; SMT; COMPOSITE; 0.47 μ H; 20%; 18.4A |
| 20 | MH1-MH4 | — | 4 | 9032 | KEYSTONE | 9032 | MACHINE FABRICATED; ROUND-THRU HOLE SPACER; NO THREAD; M3.5; 5/8IN; NYLON |
| 21 | Q1, Q2 | — | 2 | BSS138 | ON SEMICONDUCTOR | BSS138 | TRAN; LOGIC LEVEL ENHANCEMENT MODE FIELD EFFECT TRANSISTOR; NCH; SOT-23; PD-(0.36W); I-(0.22A); V-(50V); -55°C TO +150°C |
| 22 | R1 | — | 1 | CRCW04024R70FK | VISHAY DALE | 4.7 | RESISTOR, 0402, 4.7 Ω , 1%, 100PPM, 0.0625W, THICK FILM |
| 23 | R3, R15 | — | 2 | RC0402JR-070RL; CR0402-16W-000RJT | YAGEO PHYCOMP; VENKEL LTD. | 0 | RESISTOR; 0402; 0 Ω ; 5%; JUMPER; 0.063W; THICK FILM |
| 24 | R9, R10, R12 | — | 3 | CRCW04023K01FK | VISHAY DALE | 3.01K | RESISTOR; 0402; 3.01K Ω ; 1%; 100PPM; 0.063W; THICK FILM |
| 25 | R11 | — | 1 | ERJ-2RKF7680 | PANASONIC | 768 | RES; SMT (0402); 768; 1%; \pm 100PPM/°C; 0.1W |
| 26 | R13 | — | 1 | ERJ-2RKF7871 | PANASONIC | 7.87K | RES; SMT (0402); 7.87K; 1%; \pm 100PPM/°K; 0.1W |

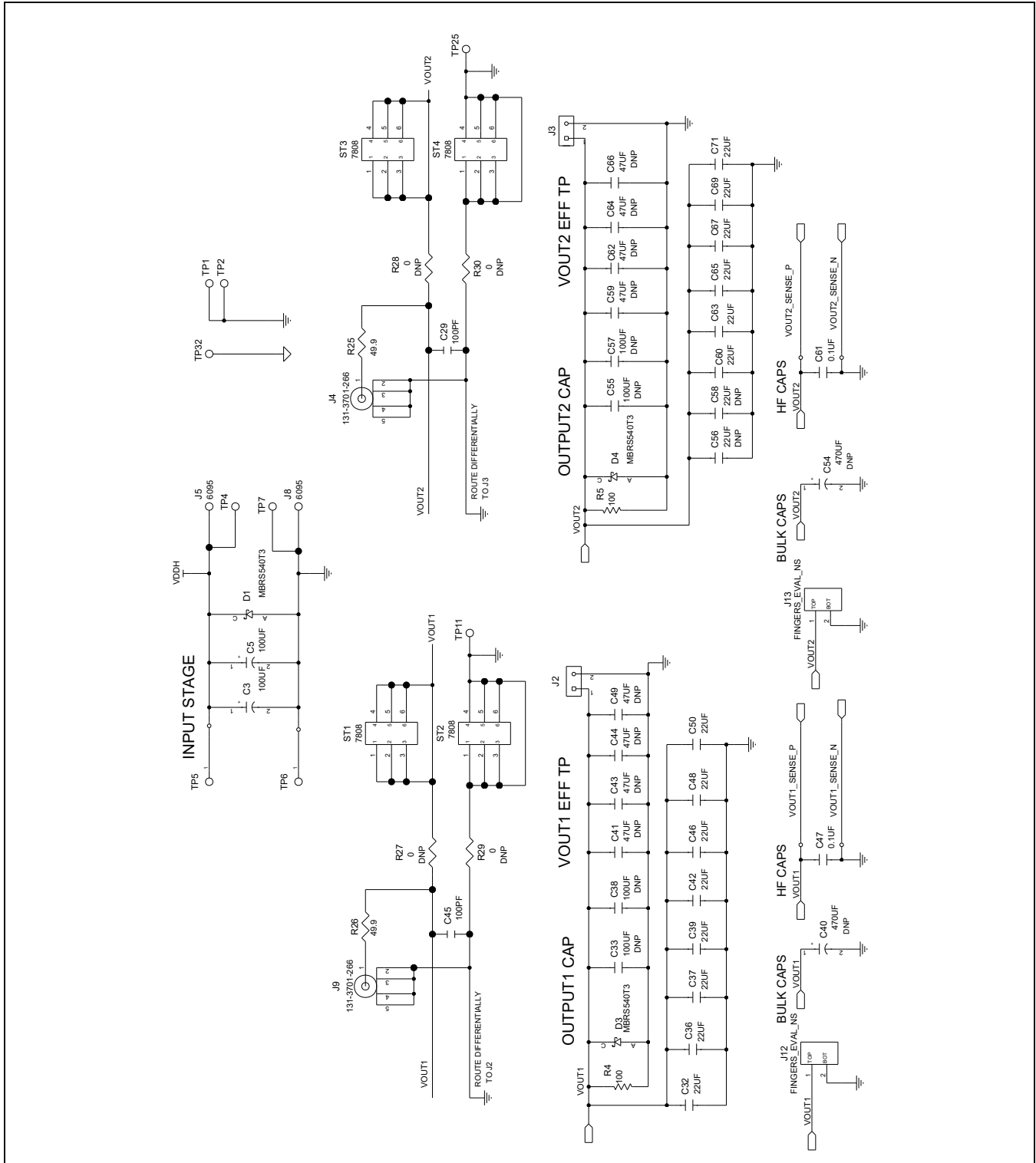
MAX20812 EV Kit Bill of Materials (continued)

| ITEM | REF_DES | DNI/DNP | QTY | MFG PART # | MANUFACTURER | VALUE | DESCRIPTION |
|------|---------------------------------------|---------|-----|--|-----------------------------|-----------|--|
| 27 | R14, R47 | — | 2 | CRCW040210R0FK; 9C04021A10R0FL | VISHAY DALE; YAGEO | 10 | RESISTOR; 0402; 10Ω; 1%; 100PPM; 0.0625W; THICK FILM |
| 28 | R25, R26 | — | 2 | CRCW040249R9FKEDHP | VISHAY DRALORIC | 49.9 | RESISTOR; 0402; 49.9Ω; 1%; 100PPM; 0.2W; THICK FILM |
| 29 | R21, R35 | — | 2 | ERJ-2RKF2491 | PANASONIC | 2.49K | RESISTOR; 0402; 2.49KΩ; 1%; 100PPM; 0.10W; THICK FILM |
| 30 | R39, R40 | — | 2 | ERJ-2RKF1002 | PANASONIC | 10K | RESISTOR; 0402; 10KΩ; 1%; 100PPM; 0.10W; THICK FILM |
| 31 | R41, R52 | — | 2 | CRCW040220K0FK | VISHAY DALE | 20K | RESISTOR; 0402; 20KΩ; 1%; 100PPM; 0.063W; THICK FILM |
| 32 | R42, R53 | — | 2 | CRCW0603100RFK; ERJ-3EKF1000; RC0603FR-07100RL | VISHAY DALE; PANASONIC | 100 | RESISTOR; 0603; 100Ω; 1%; 100PPM; 0.10W; THICK FILM |
| 33 | R51, R54 | — | 2 | ERJ-3EKF2100 | PANASONIC | 210 | RESISTOR; 0603; 210Ω; 1%; 100PPM; 0.10W; THICK FILM |
| 34 | R4, R5 | — | 2 | ERJ-P08J101 | PANASONIC | 100 | RESISTOR; 1206; 100Ω; 5%; 200PPM; 0.66W; THICK FILM |
| 35 | ST1-ST4 | — | 4 | 7808 | KEYSTONE | 7808 | TERMINAL; BODY LENGTH = 0.67IN; BODY WIDTH = 0.47IN; HEIGHT = 0.45IN; SCRW; BRASS |
| 36 | SW1, SW2 | — | 2 | GT21MCBE | C&K COMPONENTS | GT21MCBE | SWITCH; DPDT; THROUGH HOLE; 20V; 0.4VA; GT SERIES; SEALED ULTRAMINIATURE TOGGLE SWITCH; RCOIL = 0.05Ω; RINSULATION = 10GΩ; C&K COMPONENTS |
| 37 | TP1, TP2, TP7, TP11, TP25, TP32 | — | 6 | 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; RECOMMENDED FOR BOARD THICKNESS = 0.062IN; NOT FOR COLD TEST |
| 38 | TP3, TP5, TP6, TP9 | — | 4 | PBC01SAAN | SULLINS ELECTRONICS CORP | PBC01SAAN | CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 1PIN |
| 39 | TP4, TP10, TP12, TP18, TP27 | — | 5 | 5010 | KEYSTONE | N/A | TEST POINT; PIN DIA = 0.125IN; TOTAL LENGTH = 0.445IN; BOARD HOLE = 0.063IN; RED; PHOSPHOR BRONZE WIRE SIL; NOT FOR COLD TEST |

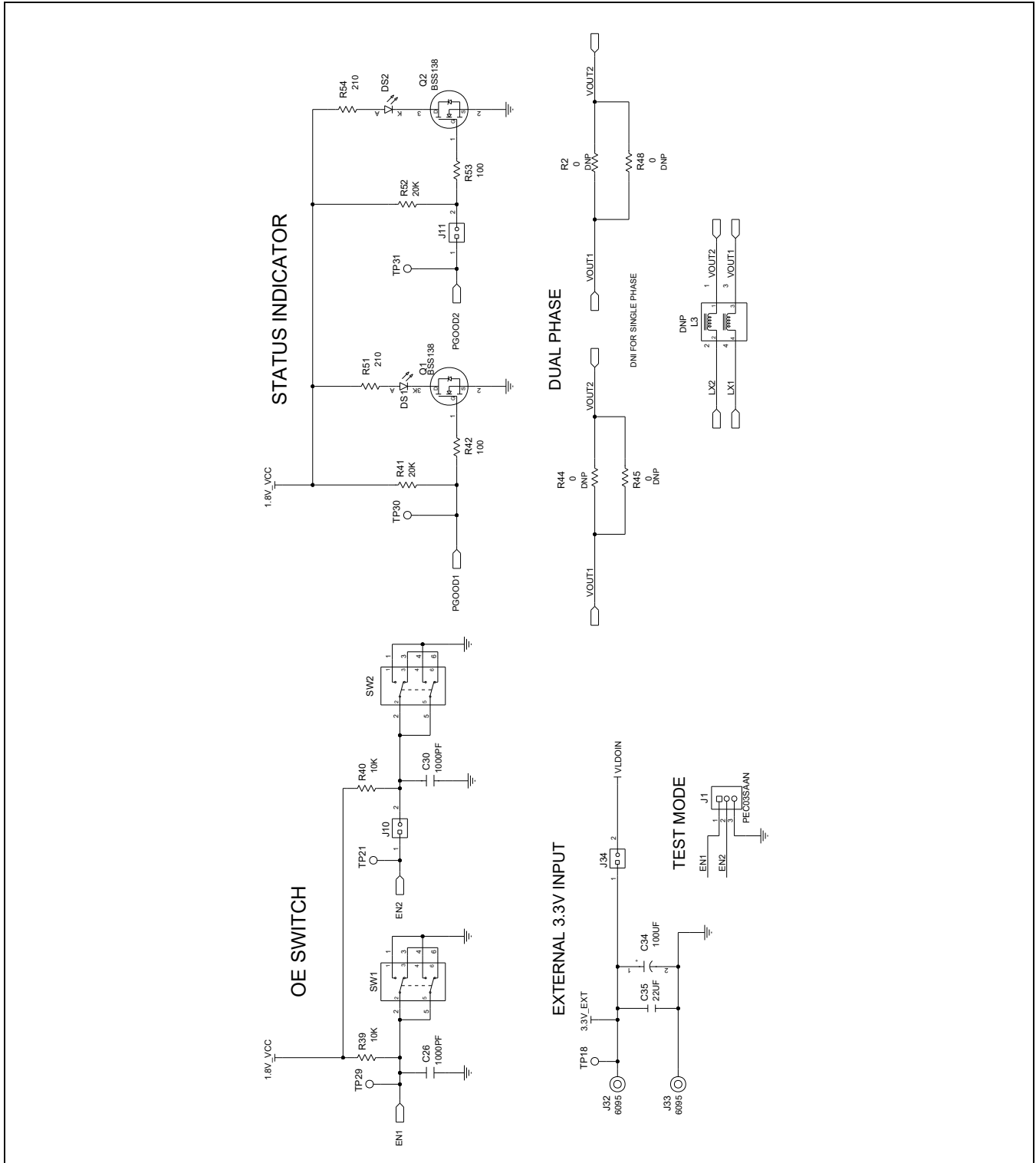
MAX20812 EV Kit Bill of Materials (continued)

| ITEM | REF_DES | DNI/DNP | QTY | MFG PART # | MANUFACTURER | VALUE | DESCRIPTION |
|------|---|---------|-----|--------------------------------------|---------------------------------|-------------|--|
| 40 | TP13, TP14, TP16, TP21, TP28, TP31 | — | 6 | 5012 | KEystone | N/A | TEST POINT; PIN DIA = 0.125IN; TOTAL LENGTH = 0.445IN; BOARD HOLE = 0.063IN; WHITE; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; RECOMMENDED FOR BOARD THICKNESS = 0.062IN; NOT FOR COLD TEST |
| 41 | TP29, TP30 | — | 2 | 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; RECOMMENDED FOR BOARD THICKNESS = 0.062IN; NOT FOR COLD TEST |
| 42 | U1 | — | 1 | MAX20812 | MAXIM | MAX20812 | EVKIT PART - IC; MAX20812; FC2QFN21; PACKAGE OUTLINE DRAWING NUMBER: 21-100394; LAND PATTERN: 90-100134; PACKAGE CODE: F213A4F+1 |
| 43 | PCB | — | 1 | MAX20812 | MAXIM | PCB | PCB:MAX20812 |
| 44 | C19, C20, C23-C25 | DNP | 5 | C0402C103J3RAC | KEMET | 0.01UF | CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01 μ F; 25V; TOL = 5%; TG = -55°C TO +125°C; TC = X7R |
| 45 | C56, C58 | DNP | 2 | GRM188C80J226ME15 | MURATA | 22 μ F | CAP; SMT (0603); 22 μ F; 20%; 6.3V; X6S; CERAMIC CHIP |
| 46 | C33, C38, C55, C57 | DNP | 4 | GRM31CD80J107ME39 | MURATA | 100 μ F | CAP; SMT (1206); 100 μ F; 20%; 6.3V; X6T; CERAMIC CHIP |
| 47 | C40, C54 | DNP | 2 | T491X477K010AT | KEMET | 470 μ F | CAPACITOR; SMT (7343); TANTALUM CHIP; 470 μ F; 10V; TOL = 10%; MODEL = T491 SERIES |
| 48 | C41, C43, C44, C49, C59, C62, C64, C66 | DNP | 8 | C0805C476M9PAC; GRM21BR60J476ME15 | KEMET; MURATA | 47 μ F | CAPACITOR; SMT (0805); CERAMIC CHIP; 47 μ F; 6.3V; TOL = 20%; TG = -55°C TO +85°C; TC = X5R |
| 49 | L3 | DNP | 1 | N/A | N/A | N/A | EVKIT PART-INDUCTOR; SMD; 10MMX5MM PACKAGE |
| 50 | R6-R8, R16, R34, R43, R50 | DNP | 7 | RC0402JR-070RL; CR0402-16W-000RJT | YAGEO PHYCOMP; VENKEL LTD. | 0 | RESISTOR; 0402; 0 Ω ; 5%; JUMPER; 0.063W; THICK FILM |
| 51 | R27-R30 | DNP | 4 | CRCW04020000Z0EDHP; RCS04020000Z0 | VISHAY DRALORIC; VISHAY DALE | 0 | RESISTOR; 0402; 0 Ω ; 0%; JUMPER; 0.2W; THICK FILM |
| 52 | R2, R44, R45, R48 | DNP | 4 | CRCW25120000ZS | VISHAY DALE | 0 | RESISTOR; 2512; 0 Ω ; 1%; JUMPER; 1.0W; METAL FILM |

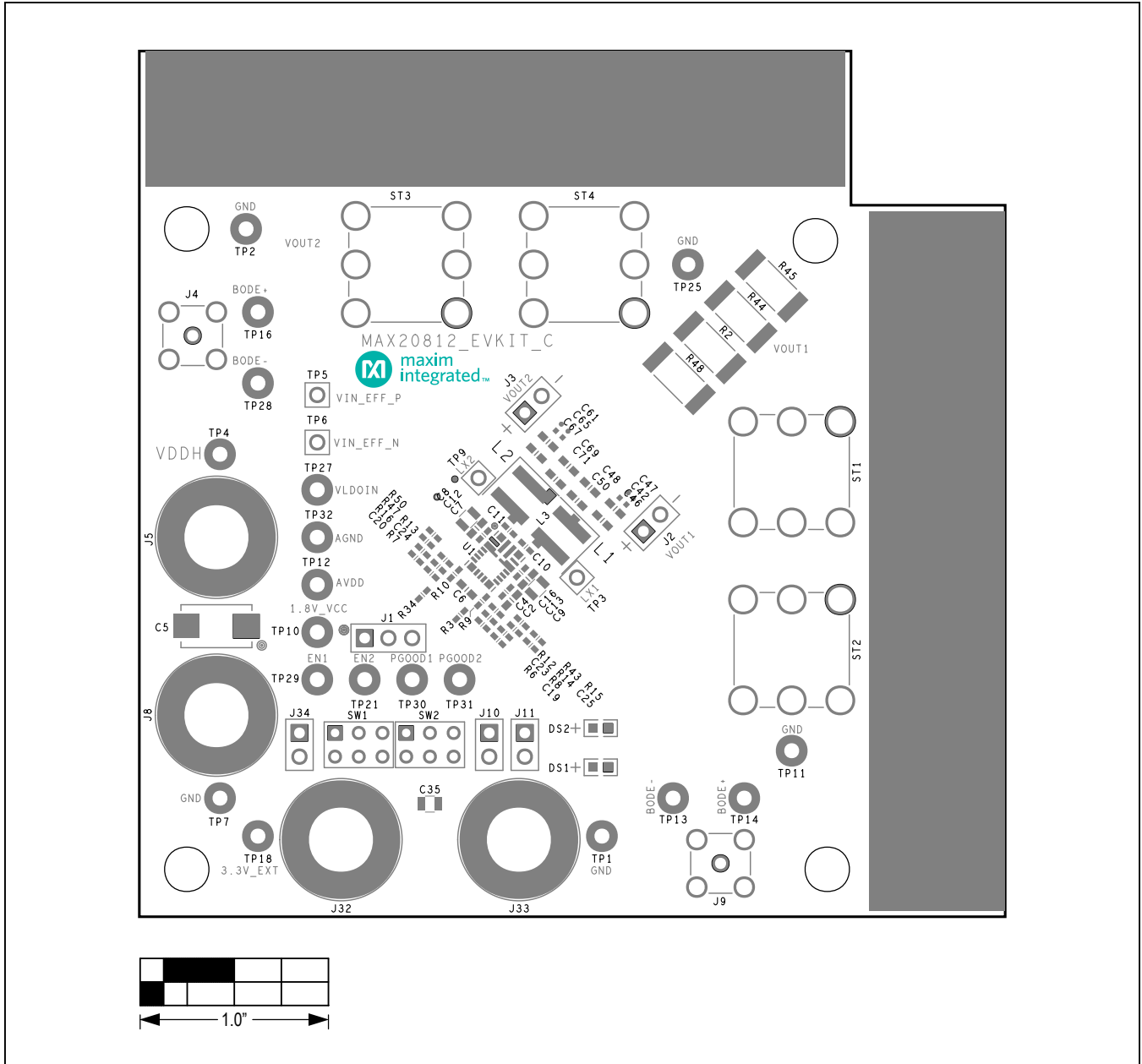
MAX20812 EV Kit Schematic Diagram (continued)



MAX20812 EV Kit Schematic Diagram (continued)

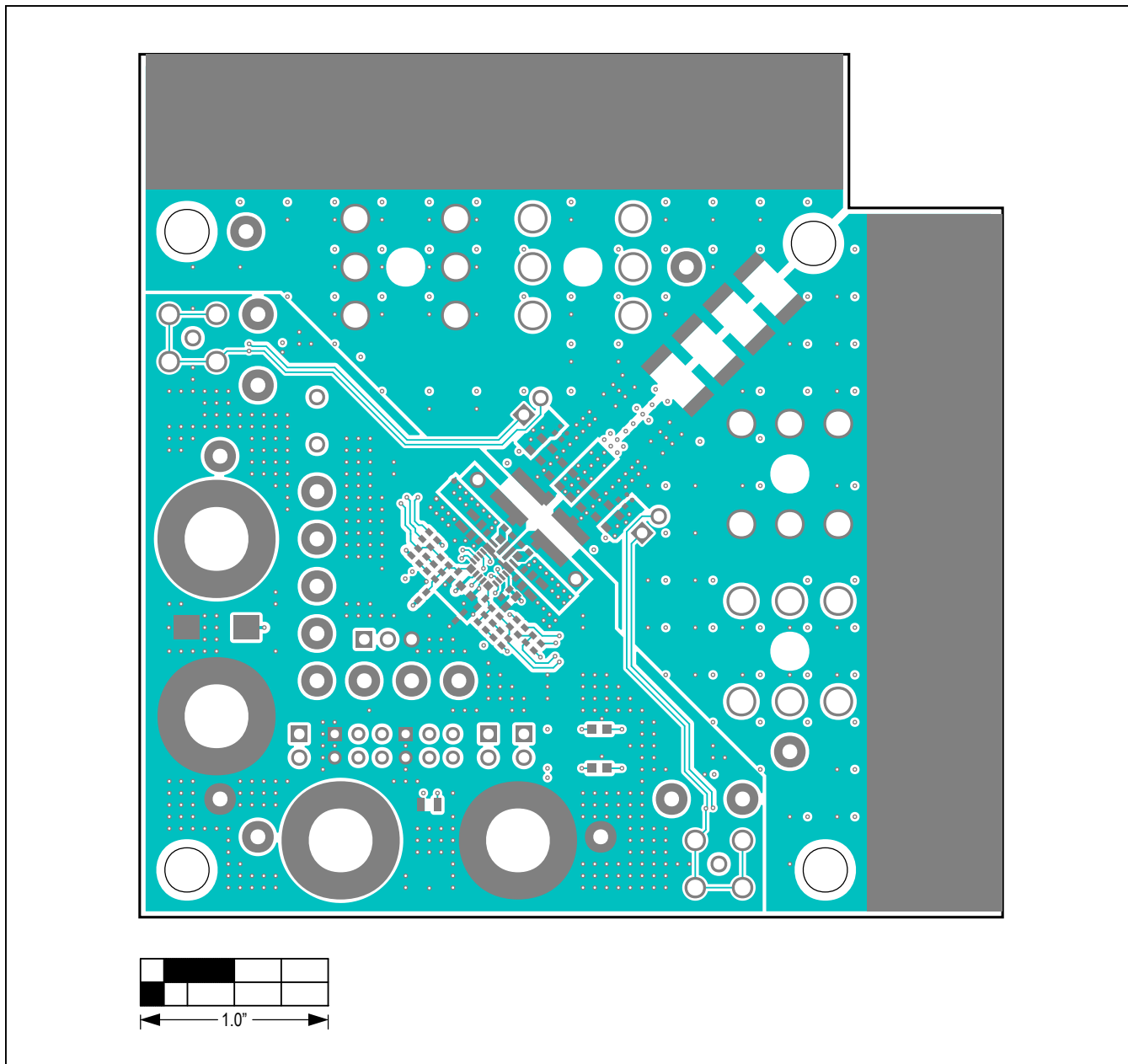


MAX20812 EV Kit PCB Layout Diagrams



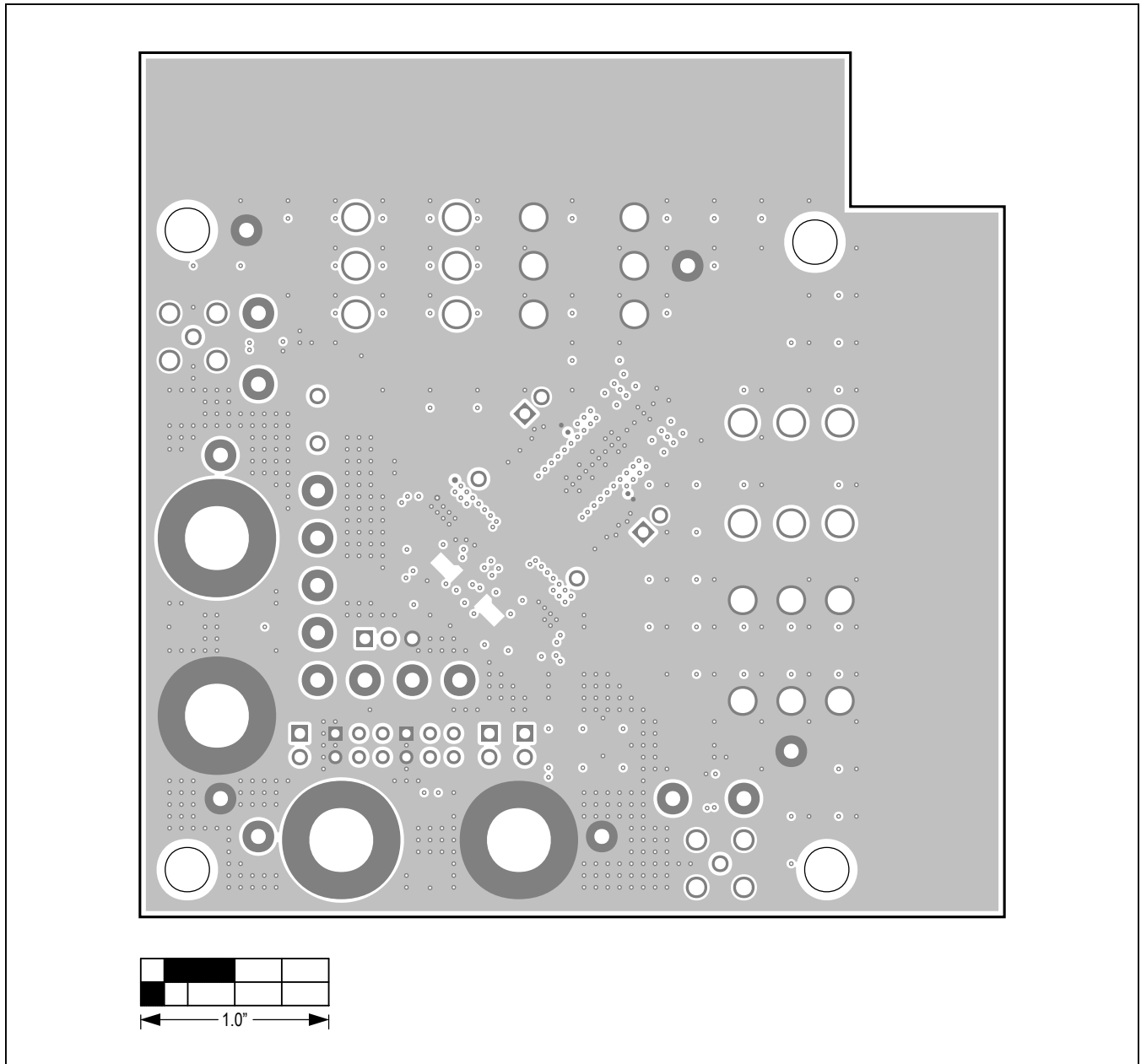
MAX20812 EV Kit PCB—Silkscreen Top Side

MAX20812 EV Kit PCB Layout Diagrams (continued)



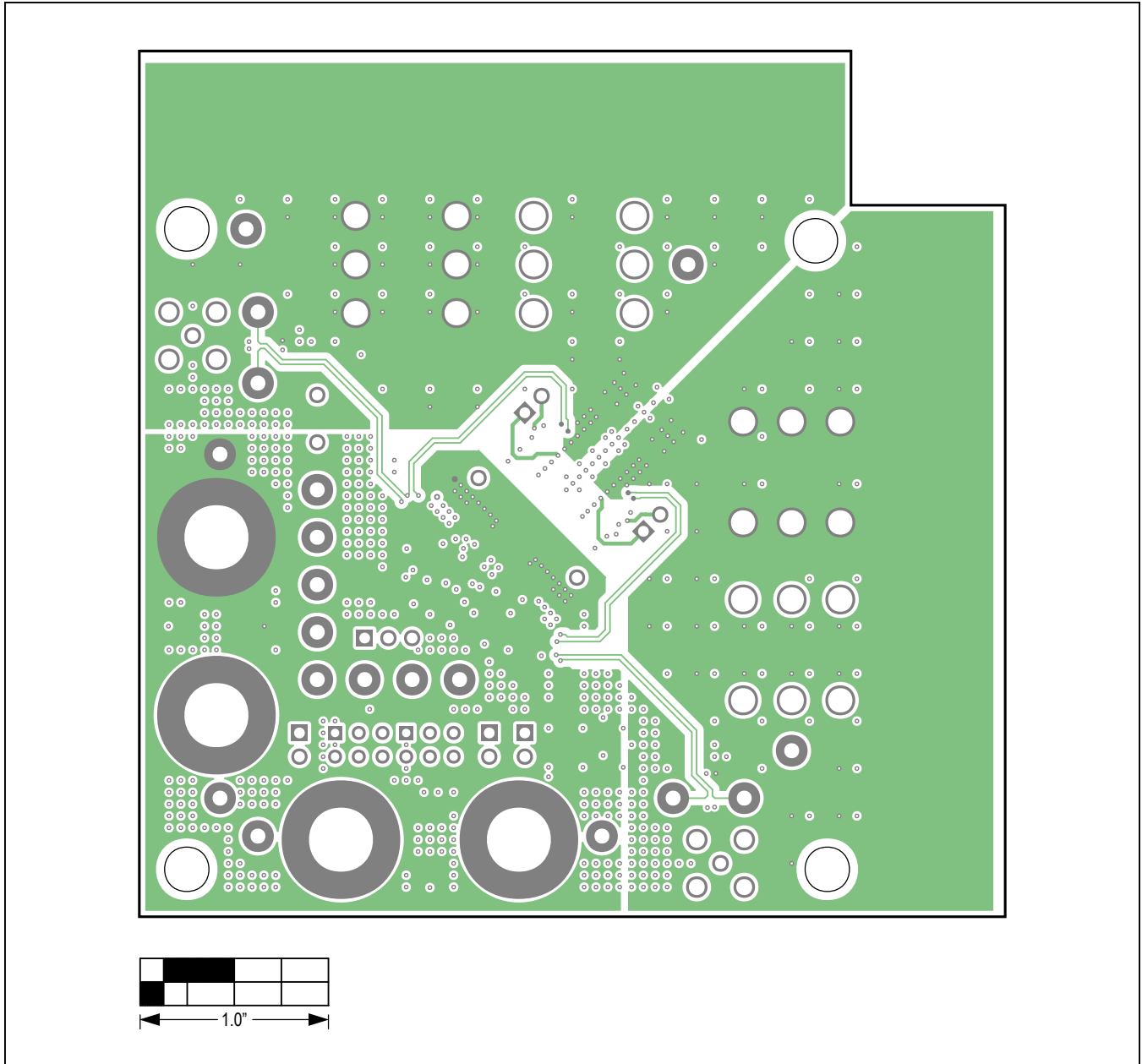
MAX20812 EV Kit PCB—Top Side

MAX20812 EV Kit PCB Layout Diagrams (continued)



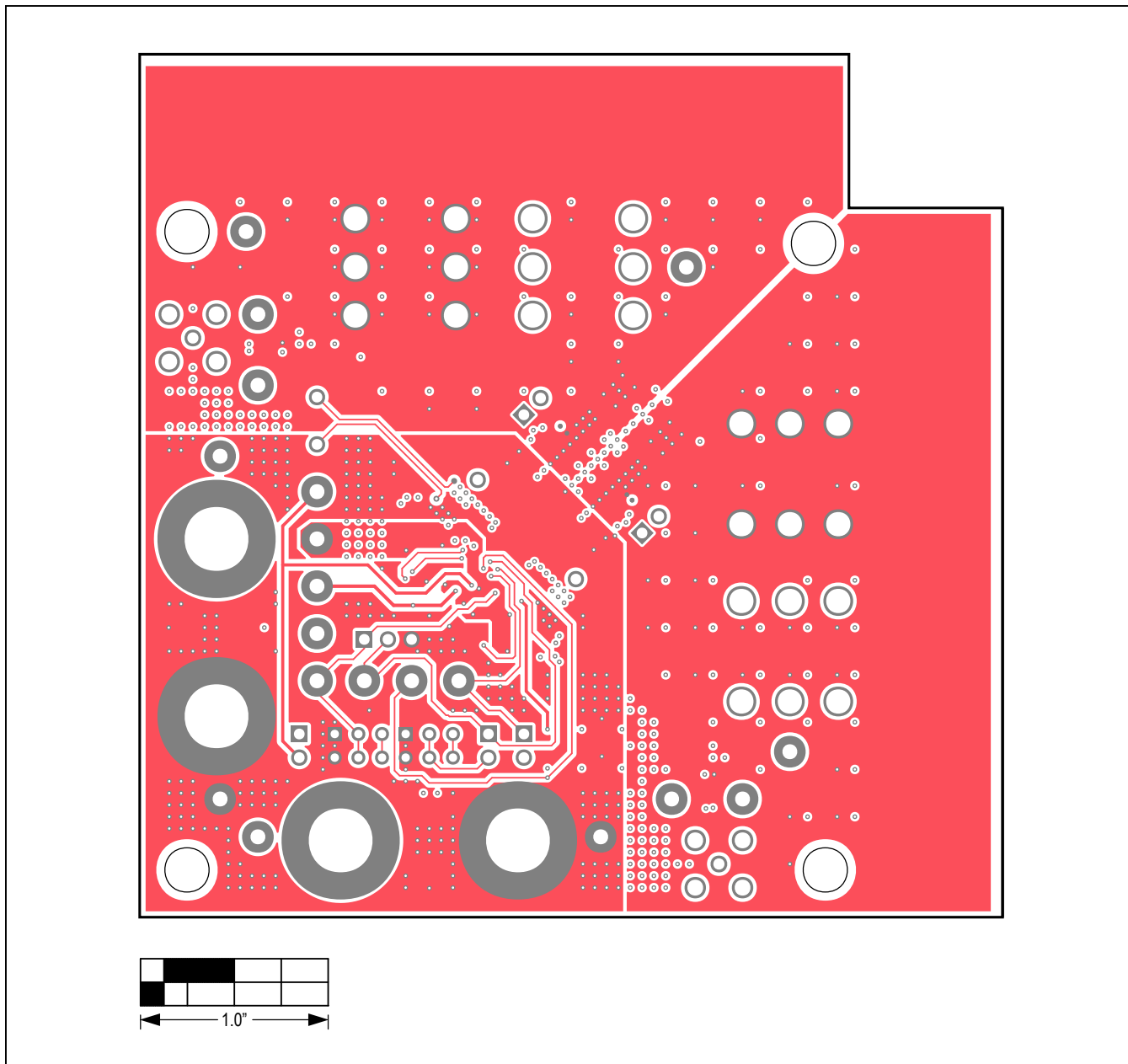
MAX20812 EV Kit PCB—Internal Layer 2

MAX20812 EV Kit PCB Layout Diagrams (continued)



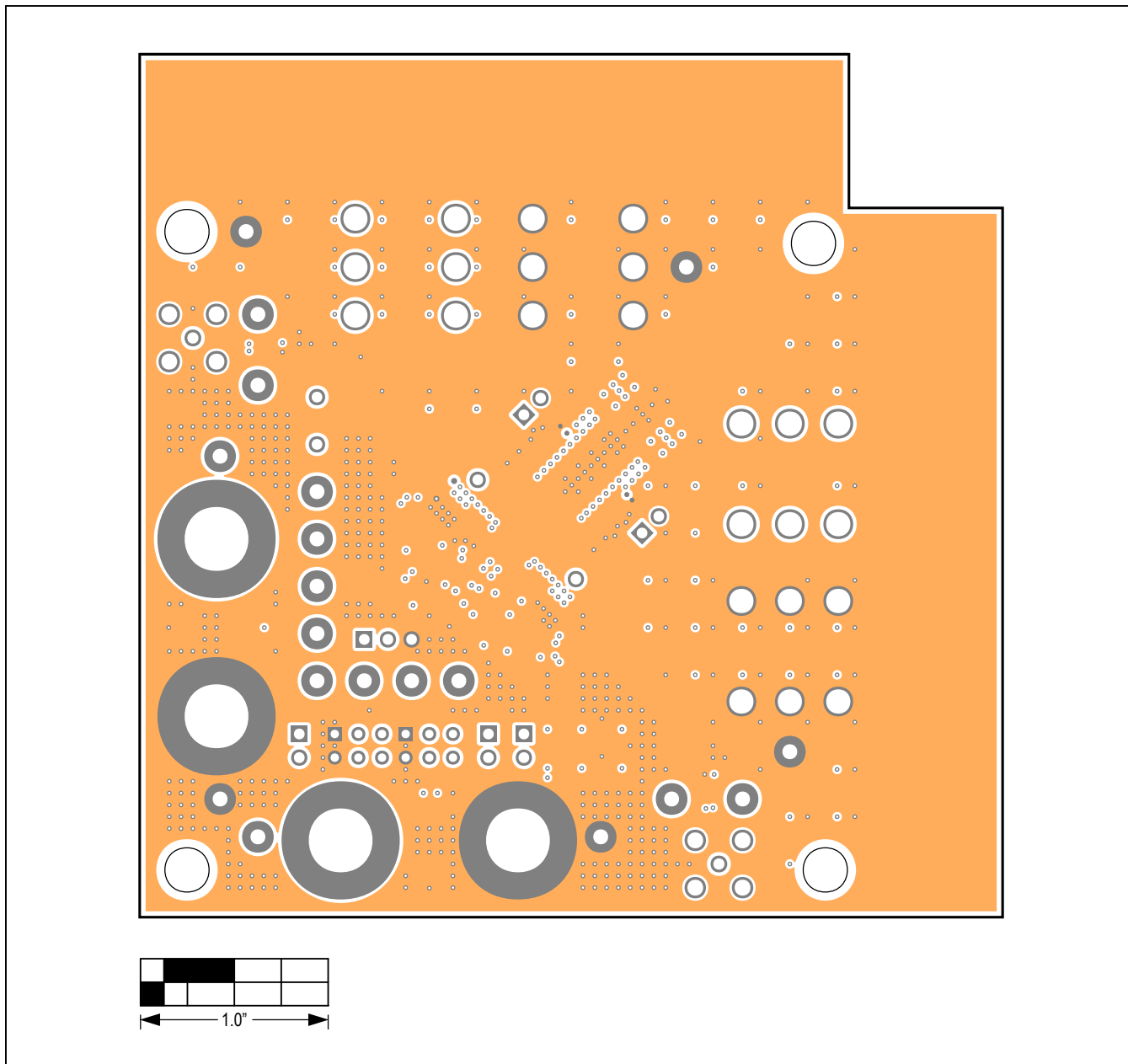
MAX20812 EV Kit PCB—Internal Layer 3

MAX20812 EV Kit PCB Layout Diagrams (continued)



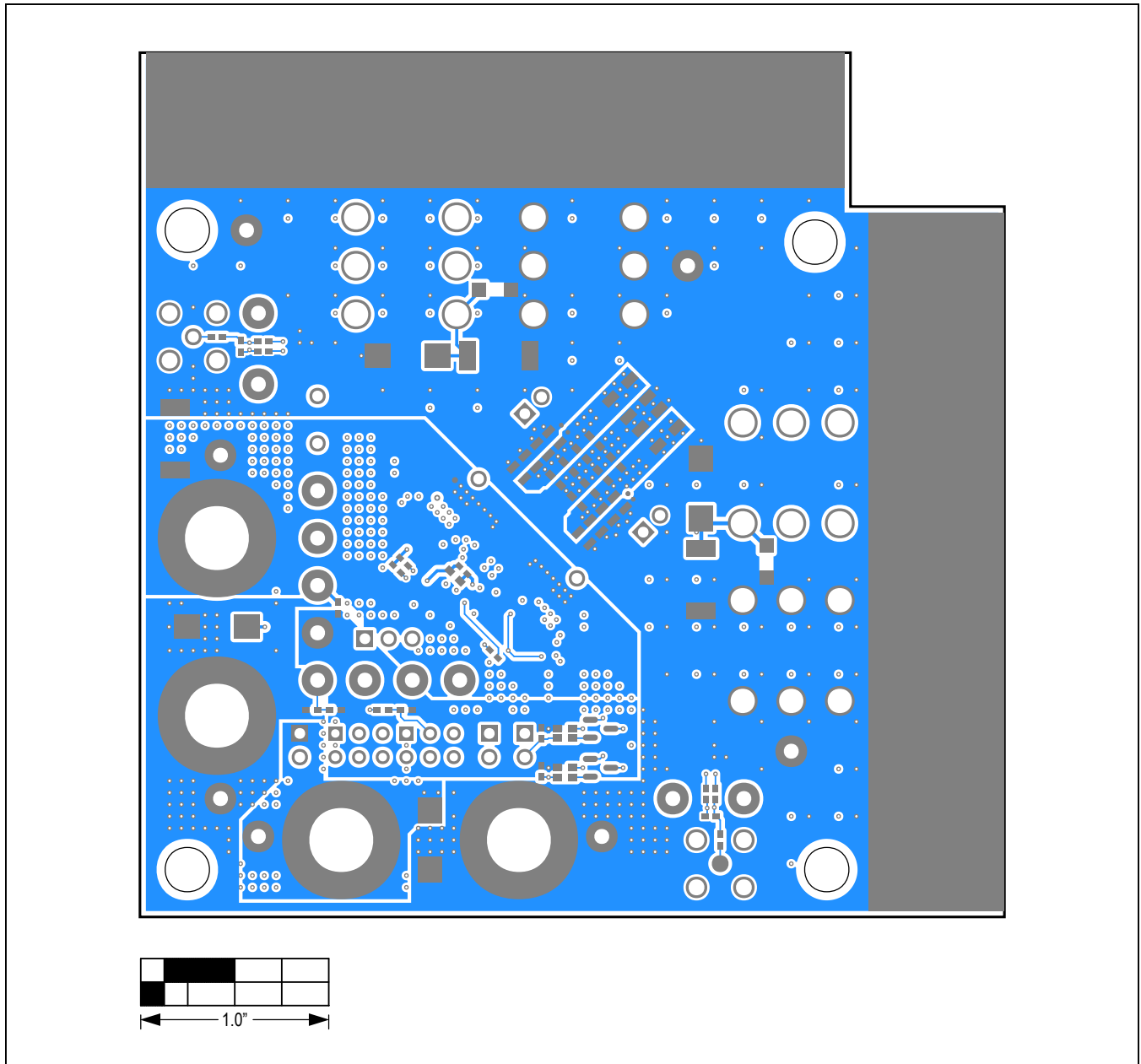
MAX20812 EV Kit PCB—Internal Layer 4

MAX20812 EV Kit PCB Layout Diagrams (continued)



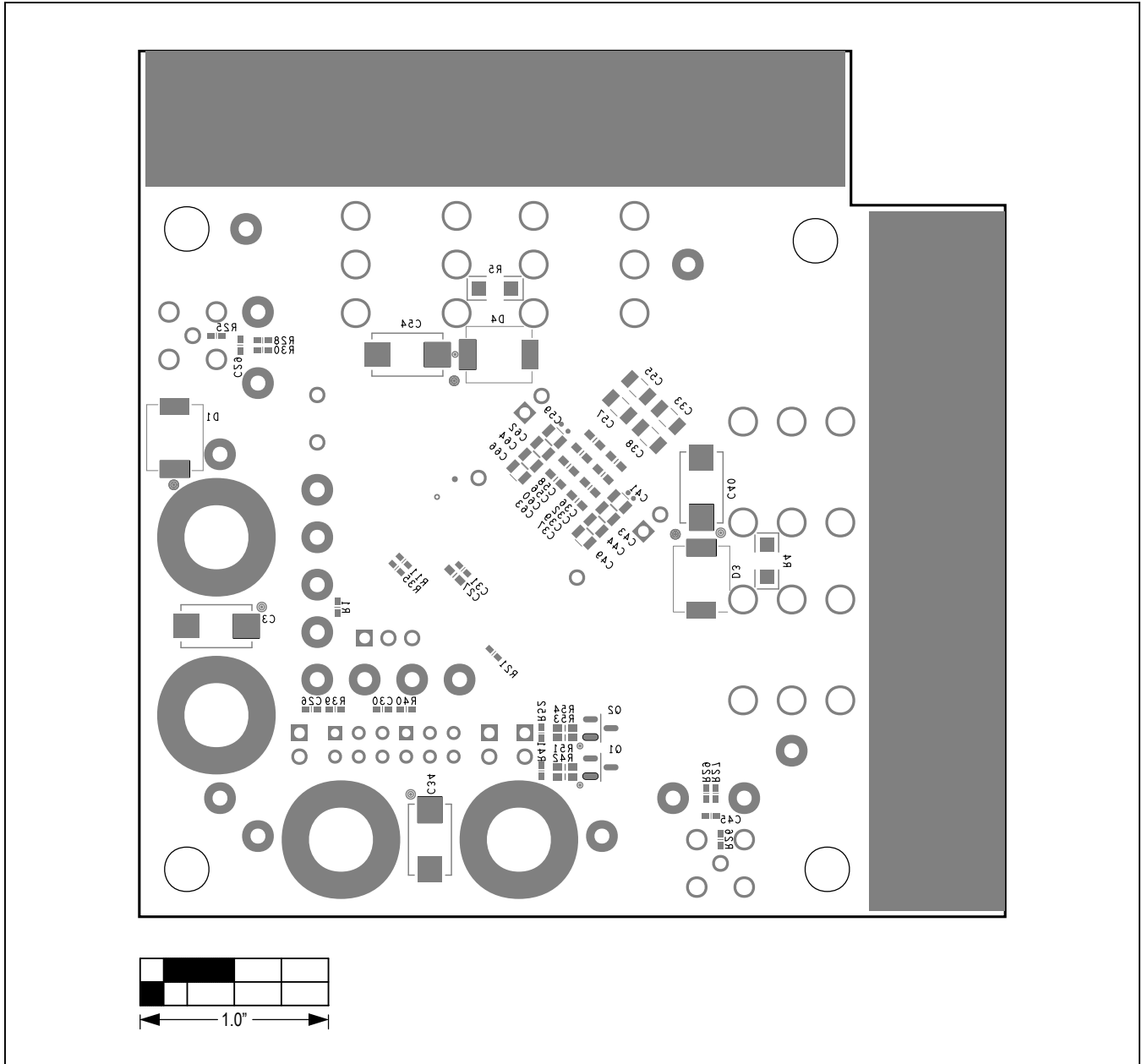
MAX20812 EV Kit PCB—Internal Layer 5

MAX20812 EV Kit PCB Layout Diagrams (continued)



MAX20812 EV Kit PCB—Bottom Side

MAX20812 EV Kit PCB Layout Diagrams (continued)



MAX20812 EV Kit PCB—Silkscreen Bottom Side

Revision History

| REVISION NUMBER | REVISION DATE | DESCRIPTION | PAGES CHANGED |
|-----------------|---------------|--|---------------|
| 0 | 10/20 | Initial release | — |
| 1 | 3/21 | Updated MAX20812AFH+ to MAX20812; updated <i>Bill of Materials</i> | All |

For pricing, delivery, and ordering information, please visit Maxim Integrated's online storefront at <https://www.maximintegrated.com/en/storefront/storefront.html>.

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