Evaluates: MAX14882

General Description

The MAX14882 evaluation kit (EV kit) is a fully assembled and tested PCB that demonstrates the functionality of the MAX14882 isolated controller area network (CAN) transceiver. The EV kit operates from a single 3.3V supply and features an on-board isolated power supply to power the secondary side of the circuit.

Features

- Operates from a Single 3.3V Supply
- Terminal Block Connectors for Easy RS-485/RS-422 Evaluation
- 5000V_{RMS} Isolation for 60s
- Fully Assembled and Tested

Quick Start

Required Equipment

- MAX14882 EV kit
- 3.3V, 500mA DC power supply
- Signal/function generator
- Oscilloscope

Procedure

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

- 1) Set the DC power supply to 3.3V.
- Connect the DC power supply to the 3.3V test point (T15). Connect the ground terminal to the GND testpoint (T14).
- 3) Ensure that the jumpers are in their default positions (see <u>Table 1</u>).
- 4) Turn on the power supply.
- 5) Connect the oscilloscope to the CANH and CANL test points (T12 and T13).
- 6) Set the signal/function generator to output a 500kHz 0-to-3.3V square wave.
- 7) Connect the signal/function generator to the TXD test point (T7).
- 8) Verify that the CANH and CANL outputs switch as the signal toggles.

Ordering Information appears at end of data sheet.



Detailed Description of Hardware

The MAX14882 EV kit is a fully assembled and tested circuit board for evaluating the MAX14882 isolated CAN transceiver (U1). The EV kit is powered from a single 3.3V power supply.

External Power Supply

The power on the EV kit is derived from a single 3.3V source. Connect an external supply to the +3.3V test point (T15) to supply the 3.3V to the logic-side (A) of the circuit. The MAX14882 drives the on-board transformer 1CT:2.4CT to generate the supply voltage needed on the isolated side of the transceiver.

To use an external supply on the isolated side of the board, remove the shunt on the J1 jumper and apply the voltage to the V_{LDO} test point (T8).

Evaluating the Isolated CAN Interface

The MAX14882 EV kit includes test points to access CANH (T12) and CANL (T13) for easy evaluation. To verify operation in a CAN system, connect the transceiver to the network using the P3 terminal block and use the TXD (T7) and RXD (T4) test points, or the P2 jumper pad, to connect the device to a logic controller.

Table 1.	Jumper 1	Table ((J1-J5)	
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JUMPER	SHUNT POSITION	DESCRIPTION		
	1-2*	V _{LDO} is connected to the output of the transformer circuit.		
J1	2-3	V_{LDO} is connected to ground. Connect an external 5V to V_{DDB} to power the isolated side of the MAX14882.		
10	1-2	POL is connected to V _{DDA} .		
JZ	2-3*	POL is connected to GNDA.		
5L	Open	On-board termination network is not connected to CANH. Open jumpers J3 and J4 to disable on-board termination between CANH and CANL.		
	Closed*	On-board termination network is connected between CANH and CANL. Close J4 to enable split termination with the capacitor to GNDB. Open J4 for resistive termination only.		
J4	Open	Split termination capacitor is not connected to GNDB. Open J3 and J4 to disable the on-board termination between CANH and CANL.		
	Closed*	Split termination capacitor is conneced to the GNDB.		
J5	1-2	TXD is connected to V _{DDA} .		
	2-3*	TXD is connected to GNDA.		

*Default position.

Ordering Information

PART	TYPE
MAX14882EVKIT#	EV Kit

#Denotes RoHS compliant.

Evaluates: MAX14882

MAX14882 EV Kit Bill of Materials

1 CL, C4, C7 - 3 8.85 + 11 WURTH ELECTRONICS INC 0.1UF CAP, SMT (0603); 0.1UF; 10%; 25V, X7R; CERAMIC CHIP 2 C2, C6, C8 - 3 GRM128871E105K; GRM128871E105K; CAPACTTOR; SMT (0603); CERAMIC CHIP; 1UF; 25V; TOL-10%; TG = 55 DEGC TO +125 DEGC; TC = X7R CAPACTTOR; SMT (0603); CERAMIC CHIP; 1UF; 25V; TOL-10%; TG = 55 DEGC TO +125 DEGC; TC = X7R 3 C3, C5 - 2 C2012X5R1E106K122A8; CAPACTTOR; SMT (0805); CERAMIC CHIP; 10UF; 25V; TOL=10%; CAPACTTOR; SMT (0805); CERAMIC CHIP; 10UF; 25V; TOL=20%; CAPACTTOR; MTROUGH HOLE; 25MX MPI N HEADER; CAPACTTOR; THROUGH HOLE; 25MX MPI N HEADER; CAPACTTOR; THROUGH HOLE; 25MX MPI N HEADER; CAPACTTOR; THROUGH HOLE; REAN TERNINA; CAPACTTOR; THROUGH HOLE; REAN TERNINA; CAPACTTOR; THROUGH H	ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
2 C2, C6, C8 - 3 GRM188871E105Ka120; GA3E1X7R1E105K; GA3E1X7R1E105K; CG3AE1X7R2CF4E3K; CG3AE1X7R2CF4E3X7R2CF4E3K; CG3AE1X7R2CF4E3X7R3K; CG3AE1X72CF4E3K	1	C1, C4, C7	-	3	8.85E+11	WURTH ELECTRONICS INC	0.1UF	CAP; SMT (0603); 0.1UF; 10%; 25V; X7R; CERAMIC CHIP
2 C2, C6, C8 - 3 TMK1078716105K; CAPACITOR; SMT (0503); CERAMIC CHIP; 10F; 25V; TOL=10%; CAPACITOR; SMT (0503); CERAMIC CHIP; 10F; 25V; TOL=20V; FIGUE CHIP; 10F; 10F; 10F; 10F; 10F; 10F; 10F; 10F								
2 CGA81X7R1E105K; MURATA,TDK;TAN'O CAPACTOR; SMT (0603); CERAMIC CHIP; 10/F; 25V; TOL=10%; TME/0787105K4; 60033C105K4T2A 2 C2, C6, C8 - 3 GRM218R61E106K; C2012X5R1E106K125AB; UF GS3 DEG CTO +125 DEGC; TC=X7R 3 C3, C5 - 2 C012X5R1E106K125AB; CAPACTTOR; SMT (0803); CERAMIC CHIP; 10/F; 25V; TOL=50K; C2012X5R1E106K MURATA,TDK,TDK 10/F MODEL; TG=55 DEGC TO +125 DEGC; TC=X5R 4 C9 - 1 C60603C470J5GAC; 06035A470IAT2A KEMET,AVX 47PF MODEL; TG=55 DEGC TO +125 DEGC; TC=X5R 5 D1, D2 2 MR0520 COMPONENTS MR0520 IF=05A; -55 DEGC TO +135 DEGC 6 J1, J2, J5 - 3 6130031121 WURTH ELECTRONICS INC 61300311121 STRICHT, 4PINS 7 J3, J4 - 2 PBC025AAN SULLINS ELECTRONICS CORP. PBC025AAN ZPINS 9 R2, R3 - 2 CRCW080560R4FK YISHAY DALE FEISTOR; 0805; 60.4 OHM; 15%; 100PPM; 0.125W; THICK FLIM 9 R2, R3 - 2 CRCW080560R4FK					GRM188R71E105KA12D;			
2 C2, C6, C8 - 3 TMXL0787JOSKA; 06033C105KAT2A YUDEN;AVX 1UF TG=S5 DEGC TO +125 DEGC; TC=X7R 3 C3, C5 - 2 C2012XSR1E106K; C2012XSR1E106K125AB; C2012XSR1E106K125AB; CAPACTOR; SMT (0805); CERAMIC CHIP; 10UF; 25V; TOL=10%; MODEL; TG=55 DEGC TO +125 DEGC; TC=X5R 4 C9 - 2 C2012XSR1E106K125AB; C2012XSR1E106K125AB; MURATA;TDK;TDK 100F MODEL; TG=55 DEGC TO +125 DEGC; TC=X5R 5 D1, D2 - 2 C6003C470J5GAC; 06035A470JAT2A KEMET;AVX 47PF MODEL; TG=55 DEGC TO +125 DEGC; TC=X5R 6 J1, J2, J5 - 3 61300311121 MURATA;TDK;TDK 100DE; 5(ST, SCHOTTK RECTINER; SMT (SOD-123); PP=20V; CONNECTOR; MALE; THROUGH HOLE; 2.54MM PIN HEADER; 7 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 STRAIGHT; PANS 7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN 200NECTOR; FEMALE; THROUGH HOLE; REFAKAWAY; STRAIGHT; 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 EONNECTOR; FEMALE; THRO					CGA3E1X7R1E105K;	MURATA;TDK;TAIYO		CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 25V; TOL=10%;
S C3, C5 - 2 CRM21BR61E106K; C2012X5R1E106K MURATA;TDK;TDK 10UF CAPACITOR; SMT (0805); CERAMIC CHIP; 12V; TOL=10%; MDDEL=; TG=-55 DEGC T0 +125 DEGC; TC-X5R 4 C9 - 1 C0603C47015GAC; 06035A4701AT2A KEMET;AVX 47PF MODEL=; TG=-55 DEGC T0 +125 DEGC; TC-X5R 5 D1, D2 - 2 MBR0520 COMPONENTS DIODE; SCH; SCHOTTKY RECTIFIER; SMT (SOD-123); PM=20V; 6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 STRAIGHT; 3PNS 7 J3, J4 - 2 PBC025AAN SULLINS ELECTRONICS CORP. 200NECTOR; FMALE; THROUGH HOLE; 2.54MM PIN HEADER; 8 P3 - 1 1335187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FILSTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 11 T4, T6, T7, T12	2	C2, C6, C8	-	3	TMK107B7105KA; 06033C105KAT2A	YUDEN;AVX	1UF	TG=-55 DEGC TO +125 DEGC; TC=X7R
3 C3, C5 - 2 C2012XSR1E106K12SAB; C2012XSR1E106K MURATA;TDK;TDK 10UF MODEL;: TG=S5 DEGC TO +125 DEGC; TC=SSR 4 C9 - 1 C0603C470J5GAC; 06035A470JAT2A KEMET;AVX 47PF MODEL;: TG=S5 DEGC TO +125 DEGC; TC=CSR 4 C9 - 1 C0603C470J5GAC; 06035A470JAT2A KEMET;AVX 47PF MODEL;: TG=S5 DEGC TO +125 DEGC; TC=CSR 5 D1, D2 - 2 MBR0520 COMPONENTS MBR0520 CONNECTOR; MALE; THROUGH HOLE; 2.54MM PIN HEADER; 6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS CORP. PBC02SAAN 2PINS 7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; PINS DIADE; CONNECTOR; FEMALE; THROUGH HOLE; REAKAWAY; STRAIGHT; PINDIA=0.12SIN; TOTAL LENGTH=0.44SIN; BOARD 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR: 0805; 00.40 HM; 1%; 100PPM; 0.12SW; TICKFLIM					GRM21BR61E106K;			
3 C3, C5 - 2 C012XSR1E106K MURATA;TDK;TDK 10UF MODEL:; TG=-S5 DEGC: T0+125 DEGC; TC-XSR 4 C9 - 1 C0603C470J5GAC; 06035A470JAT2A KEMET;AVX 47PF MODEL:; TG=-S5 DEGC: T0+125 DEGC; TC-XSR 5 D1, D2 - 2 MBR0520 COMPONENTS DIODE; SCH; SCHOTTKY RECTIFER; SMT (SOD-123); PV=20V; 6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS INC 61300311121 8 P3 - 1 935187 PHOENIX CONTACT 1935187 CONNECTOR; MALE; THROUGH HOLE; GREEN TERMINAL 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; <					C2012X5R1E106K125AB;			CAPACITOR; SMT (0805); CERAMIC CHIP; 10UF; 25V; TOL=10%;
4 C9 - 1 Cobol Cod	3	C3, C5	-	2	C2012X5R1E106K	MURATA;TDK;TDK	10UF	MODEL=; TG=-55 DEGC TO +125 DEGC; TC=X5R
4 C9 - 1 C0603C470J5GAC; 06035A470JAT2A KEMET;AVX 47PF MODELs; TG=:S5 DEGC T0 +125 DEGC; TC=:C0G 5 D1, D2 - 2 MBR0520 DIDP; SCH; SCHOTTKY RECTIFIER; SMT (S0D-123); PI-20V; PI-20SA; 55 DEGC T0 +130 DEGC; DIDP; SCH; SCHOTTKY RECTIFIER; SMT (S0D-123); PI-20V; PI-20SA; 55 DEGC T0 +130 DEGC 6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 STRAIGHT; 3PINS 7 J3, J4 - 2 PE0025AAN SULLINS ELECTRONICS CORP. PBC025AAN 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINSH; 12 T8, T9, T15 - 3 5010 N/A 5014 PLECETRONICS, INC TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE; 0.125IN; TOTAL LENGTH=0.								CAPACITOR; SMT (0603); CERAMIC CHIP; 47PF; 50V; TOL=5%;
S D1, D2 - 2 MBR0520 MICRO COMMERCIAL COMPONENTS DI D0E; SCH; SCH OTTKY RECTIFIER; SMT (SOD-123); PIV=20V; IF=0.5A; -S5 DEG C D+150 DEGC 6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC G1300311121 STRAIGHT; 3PINS 7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINSH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 FINSH; 12 T8, T9, T15 - 3 5010 N/A 5014 FILE PINNT; PIN DIA=0.125IN; TOTAL LENGTH=0.44SIN; BOARD 13 T4, T6, T7, T12, T13 - 5 5014 N	4	C9	-	1	C0603C470J5GAC; 06035A470JAT2A	KEMET;AVX	47PF	MODEL=; TG=-55 DEGC TO +125 DEGC; TC=C0G
5 D1, D2 - 2 MBR0520 IF=0.5A; -S5 DEGC T0 +150 DEGC 6 11, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 CONNECTOR; MALE; THROUGH HOLE; 2.54MM PIN HEADER; 7 J3, J4 - 2 PBC025AAN SULLINS ELECTRONICS CORP. PBC025AAN CONNECTOR; FMALE; THROUGH HOLE; GREEN TERMINAL 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, F6, T7, T12, T13 - 5 5014 N/A 5010 TEST POINT; WITH 1.80MM HOLE DIA; RED, MULTIPURPOSE 11 T4, 76, T7, T12, T13 - 5 5014 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA; RED, MULTIPURPOSE 11 T4, 76, T7, T12, T13 - 5 5014 N/A 5010						MICRO COMMERCIAL		DIODE; SCH; SCHOTTKY RECTIFIER; SMT (SOD-123); PIV=20V;
6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 STRAIGHT; 3PINS 7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINSH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLAE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHER ONLY 14 U1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V	5	D1, D2	-	2	MBR0520	COMPONENTS	MBR0520	IF=0.5A; -55 DEGC TO +150 DEGC
6 J1, J2, J5 - 3 61300311121 WURTH ELECTRONICS INC 61300311121 STRAIGHT; 3PINS 7 J3, J4 - 2 PEC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK, STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW08056074FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT; PIN DIA-0125IN; TOTAL LENGTH=0.445IN; BOARD 13 TX1 - 1 GMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT; WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CONNECTOR; MALE; THROUGH HOLE; 2.54MM PIN HEADER;</td>								CONNECTOR; MALE; THROUGH HOLE; 2.54MM PIN HEADER;
7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FLM HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINTHOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINTHOLE=0.063IN; PLACK; PHOSPHOR BRONZE WIRE SILVER PLATE 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6UF TANSFORMER; SMT; 1: 2; POWER TRANSFORMER; DALFT	6	J1, J2, J5	-	3	61300311121	WURTH ELECTRONICS INC	61300311121	STRAIGHT; 3PINS
7 J3, J4 - 2 PBC02SAAN SULLINS ELECTRONICS CORP. PBC02SAAN 2PINS 8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINSH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; YELLOW; PHOSPHOR BRONZE WIRE SILVER PLATE 13 TX1 - 5 5014 N/A 5010 TESTPOINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; YELLOW; PHOSPHOR BRONZE WIRE SILVER 13 TX1 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 14 U1 - 1 TGMR-1464V6LF <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT;</td>								CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT;
8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLOENIX CONTACT PLOENIX CONTACT PLOENIX; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD 12 T2, T3, T10, T11, T14 - 5 5011 N/A 5014 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF<	7	J3, J4		2	PBC02SAAN	SULLINS ELECTRONICS CORP.	PBC02SAAN	2PINS
8 P3 - 1 1935187 PHOENIX CONTACT 1935187 BLOCK; STRAIGHT; 4PINS 9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ VSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF								CONNECTOR: FEMALE: THROUGH HOLE: GREEN TERMINAL
9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF 700PF 4700PF 4700PF	8	P3		1	1935187	PHOENIX CONTACT	1935187	BLOCK: STRAIGHT: 4PINS
9 R2, R3 - 2 CRCW080560R4FK VISHAY DALE 60.4 RESISTOR; 0805; 60.4 OHM; 1%; 100PPM; 0.125W; THICK FILM 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 5 5010 N/A 5010 TESTPOINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE 13 T4, T6, T7, T12, T13 - 5 5014 N/A 5010 TESTPOINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; PLACK; PHOSPHOR BRONZE WIRE SILVER 13 T4, T6, T7, T12, T13 - 5 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 FINISH; 12 T8, T9, T15 - 5 5010 N/A 5010 TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; FUN DIA=0.125IN; FUN DI	9	R2, R3		2	CRCW080560R4FK	VISHAY DALE	60.4	RESISTOR: 0805: 60.4 OHM: 1%: 100PPM: 0.125W: THICK FILM
10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 HOLE=0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.44SIN; BOARD HOLE=0.063IN; YELLOW; PHOSPHOR BRONZE WIRE SILVER 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF, 1000V; T0L=5%; TG=-55degC T0 +105degC								TEST POINT: PIN DIA=0.125IN: TOTAL LENGTH=0.445IN: BOARD
10 T2, T3, T10, T11, T14 - 5 5011 N/A 5011 FINSH; 11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; YELLOW; PHOSPHOR BRONZE WIRE SILVER 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF 4700PF; 1000V; T0L=5%; TG=-55degC T0 +105degC								HOLE=0.063IN: BLACK: PHOSPHOR BRONZE WIRE SILVER PLATE
10 10<	10	T2, T3, T10, T11, T14	-	5	5011	N/A	5011	FINISH:
11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 HOLE=0.063IN; YELLOW; PHOSPHOR BRONZE WIRE SILVER 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WAXIM EVKIT PART-IC; RV57; PACKAGE OUTLINE DRAWING: 21-0042; LAND PATTERN DRAWING: 90-0107; PACKAGE CODE: W16+10; 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700P; 1000V; T0L=5%; TG=-55degC T0 +105degC		,,,,		-				TEST POINT: PIN DIA=0.125IN: TOTAL LENGTH=0.445IN: BOARD
11 T4, T6, T7, T12, T13 - 5 5014 N/A 5014 PLATE FINISH; 12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF TRANSFORMER; SMT; 1:2.4; POWER TRANSFORMER; DRAFT 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300Mil 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF; 1000V; T0L=5%; TG=-55degC T0 +105degC								HOLE=0.063IN: YELLOW: PHOSPHOR BRONZE WIRE SILVER
12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MiL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF, 1000V; TOL=5%; TG=-55degC TO +105degC	11	T4, T6, T7, T12, T13	-	5	5014	N/A	5014	PLATE FINISH:
12 T8, T9, T15 - 3 5010 N/A 5010 TESTPOINT WITH 1.80MM HOLE DIA, RED, MULTIPURPOSE 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300Mil 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF, 1000V; T0L=5%; TG=-55degC T0 +105degC		,,		-				
12 10/1 1	12	T8 T9 T15		з	5010	N/A	5010	TESTPOINT WITH 1 80MM HOLE DIA BED MULTIPURPOSE
13 TX1 - 1 TGMR-1464V6LF HALO ELECTRONICS, INC TGMR-1464V6LF DATASHEET ONLY 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF 4700PF; 1000V; T0L=5%; TG=-55degC T0 +105degC		10, 13, 125			5010		5010	TRANSFORMER' SMT: 1:2 4: POWER TRANSFORMER' DRAFT
10 11 11 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF, 1000V; T0L=5%; TG=-55degC T0 +105degC	13	TX1		1	TGMR-1464V6LE	HALO FLECTRONICS, INC	TGMR-1464V6LF	DATASHEET ONLY
14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MIL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF; 1000V; T0L=5%; T6=-55degC T0 +105degC		1742					TOTAL TO TOL	EVKIT PART-IC: RV57: PACKAGE OUTLINE DRAWING: 21-0042:
14 U1 - 1 MAX14882AWE+ MAXIM MAX14882AWE+ WSOIC16 300MiL 15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF; 1000V; T0L=5%; T6=-55degC T0 +105degC								LAND PATTERN DRAWING: 90-0107: PACKAGE CODE: W16+10:
15 PCB - 1 MAX14882 MAXIM PCB PCB:MAX14882 16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF; 1000V; TOL=5%; TG=-55degC TO +105degC	14	U1		1	MAX14882AWF+	MAXIM	MAX14882AWF+	WSOIC16 300MII
16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF; 1000V; TOL=5%; TG=-55degC TO +105degC	15	PCB		1	MAX14882	MAXIM	PCB	PCB:MAX14882
16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF; 1000V; TOL=5%; TG=-55degC TO +105degC		105			111 001		1.05	
16 C10 DNP 0 B32620A0472J EPCOS 4700PF 4700PF;1000V;T01=5%;T6=55decC T0+105decC								CAPACITOR: THROUGH HOLE-RADIAL LEAD: POLYPROPYLENE:
	16	C10	DNP	0	B32620A04721	FPCOS	4700PF	4700pE: 1000V: TOI =5%: TG=-55degC TO +105degC
CONNECTOR: MALE: THROUGH HOLE: BREAKAWAY: STRAIGHT-		010	5	v				CONNECTOR: MALE: THROUGH HOLE: BREAKAWAY: STRAIGHT:
17 P2 DNP 0 PROFSAAN SILLINS ELECTRONICS CORP PROFSAAN FOLKS - 55 DECC TO -135 DECC	17	P7	DNP	0	PBCOGSAAN	SUILLINS FLECTRONICS CORP	PRCOGSAAN	6PINS: -65 DEGC TO +125 DEGC
		12		0	1 5 6 6 6 . 1411	Solenis Electricities Colle	. 500004411	
	18	R1	DNP	0	CBCW/06034989EK	VISHAY DALE	49.9	RESISTOR: 0603: 49 9 OHM: 1%: 100PPM: 0 10W: THICK FILM
	TOTAL	1/1	DINF	35	Cherroodd49h9h8h	MONAT DALL	73.3	THE STOR, 6663, 49.5 OHIM, 176, 100 FEW, 0.10W, THICK FIEW

MAX14882 EV Kit Schematic



Evaluates: MAX14882



MAX14882 EV Kit PCB Layout Diagrams



MAX14882 EV Kit—Top Silkscreen



MAX14882 EV Kit—Internal



MAX14882 EV Kit—Internal 3



MAX14882 EV Kit PCB Layout Diagrams (continued)



MAX14882 EV Kit—Bottom

Evaluates: MAX14882

Revision History

REVISION	REVISION	DESCRIPTION	PAGES
NUMBER	DATE		CHANGED
0	5/18	Initial release	—

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