MAXM22511 Evaluation Kit

Evaluates: MAXM22511

General Description

The MAXM22511 evaluation kit (EV kit) is a fully assembled and tested PCB that demonstrates the functionality of the MAXM22511 isolated RS-485/RS-422 transceiver module. The EV kit operates from a single 3.3V supply.

Features

- Operates From a Single 3.3V Supply
- Terminal Block Connectors for Easy RS-485/RS-422 Evaluation
- Up to 2500V_{RMS} Isolation for 60s
- Fully Assembled and Tested

Quick Start

Required Equipment

- MAXM22511 EV kit
- 3.3V, 300mA DC power supply
- Signal/function generator
- Oscilloscope

Startup Procedure

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

- Set the DC power supply to 3.3V and connect the DC power supply between the EV kits V_{DDA} and GNDA connectors.
- 2) Ensure that all jumpers are in their default positions (see Table 1).
- 3) Turn on the power supply.
- 4) Set the signal/function generator to output a 100kHz 0-to-3.3V square wave.
 - **NOTE:** Set the signal/function generator to operate with a high-impedance load. If needed, the R1 pad is available to add a 50Ω impedance to ground.
- 5) Connect the signal/function generator to the TXD test point.
- 6) Using the oscilloscope, verify that the Y, Z, and RXD outputs switch as the TXD signal toggles.

Ordering Information appears at end of data sheet.



Detailed Description of Hardware

The EV kit is a fully assembled and tested circuit board for evaluating the MAXM22511 isolated RS-485/RS-422 transceiver module (U1). The EV kit is designed to evaluate the MAXM22511 alone or in a standard RS-485 configuration.

Powering the Board

The MAXM22511 operates from a single supply. Connect an external 3.3V supply to the V_{DDA} test point (TP6). Connect the ground terminal of the supply to the GNDA test point (TP7). The integrated DC/DC in the MAXM22511 generates the isolated power for the B-side/isolated side of the board.

Evaluating the Isolated RS-485 Interface Driver and Receiver Enable Selection

The EV kit features two jumpers (J2 and J4) to enable/ disable the driver and receiver outputs.

To enable the driver outputs (Y and Z), set the J4 jumper to 1-2 ('H'). Set J4 to 2-3 to disable the Y and Z outputs.

To enable the receiver on the MAXM22511, set the J2 jumper to 2-3 ('L'). Set J2 to 1-2 to disable the receiver.

Enabling/Disabling Shutdown Mode

In shutdown mode, the internal DC/DC is disabled and no power is generated on the isolated side of the board. The J3 jumper is available to enable/disable shutdown mode for the MAXM22511. Set the J3 jumper to 2-3 for normal operation. Set J3 to 1-2 to enter shutdown mode.

The SBA output is high impedance during shutdown and is not pulled high. The R6 pad on the board is available to add a pull-up resistor to SBA if SBA must be high when the MAXM22511 is in shutdown mode.

Loopback Configuration

The MAXM22511 features one drive channel and one receive channel. Driver outputs are Y and Z and receiver inputs are A and B. To configure the device for loopback testing, close J7 and J8 to connect B to Z and A to Y, respectively.

On-Board Resistor Configurations

To evaluate the MAXM22511 at the end-of-the-line in a RS-485/RS-422 bus, close J6 to connect a 120Ω termination resistor (R3) between the A and B RS-485 receiver inputs.

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Close J5 to connect a 120Ω termination resistor (R2) between the Y and Z driver outputs.

Pullup and pulldown resistors are generally used on the receiver inputs to guarantee a known state in the event that all nodes on the bus are in receive mode, or the cable becomes disconnected. The exact value for these resistors varies with the application. R7 and R9 pads are provided for pullup and pulldown resistors on the Y and Z lines. R10 and R12 pads provide for pullup and pulldown resistors on the A and B lines, if needed. The use of any of these resistors is purely optional. Note that the MAXM22511 features true fail-safe receiver inputs, which ensures that RXD is high when the receiver inputs are shorted, open, or connected to an idle bus.

RS-485 Interface Protection

The MAXM22511 RS-485 interface pins (Y, Z, A and B) feature internal ESD protection up to ±35kV ESD (HBM), ±18kV ESD (Air gap), ±8kV ESD (Contact). SM712 TVS diodes have been added to the I/O lines for added protection up to ±30kV ESD (Air) and ±30kV ESD (Contact). The SMT712 is also rated for protection against EFT up to 40A (5/50ns).

Optimized EMI Layout

The MAXM22511 EV kit has been designed for easy evaluation and is not optimized for EMI performance/ evaluation. See the Design Resources tab on the MAXM22511 web page for more information about best design practices for optimum EMI performance.

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Table 1. Jumper Table (J2-J8)

JUMPER	SHUNT POSITION	DESCRIPTION
J2	1-2	RE is high. The RS-485 receiver is disabled.
J2	2-3*	RE is low. The RS-485 receiver is enabled.
J3	1-2	SD is high. The MAXM22511 is in shutdown mode.
Jo	2-3*	SD is low. The MAXM22511 is not in shutdown mode.
J4	1-2*	DE is high. The RS-485 driver outputs are enabled.
J4	2-3	DE is low. The RS-485 driver outputs are disabled.
J5	Open	Y and Z are not connected through the on-board 120Ω termination resistor.
Jo	Closed*	Y and Z are connected through the on-board 120Ω termination resistor.
J6	Open	A and B are not connected through the on-board 120Ω termination resistor.
30	Closed*	A and B are connected through the on-board 120Ω termination resistor.
J7	Open*	B is not connected to Z.
J/	Closed	B is connected to Z.
J8	Open*	A is not connected to Y.
Jo	Closed	A is connected to Y.

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Ordering Information

PART	TYPE
MAXM22511EVKIT#	EV Kit

#Denotes RoHS compliant.

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^{*}Default position.

MAXM22511 EV Kit Bill of Materials

		DNI/					I		
ITEM	REF_DES		QTY	MFG PART#	MFG	VALUE	DESCRIPTION		
							CAPACITOR; SMT (CASE_C); ALUMINUM-		
							ELECTROLYTIC; 47UF; 10V; TOL=20%; MODEL=HA		
1	C7	-	1	EEE-HA1A470WR	PANASONIC	47UF	SERIES; TG=-40 DEGC to +105 DEGC; TC=		
							CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY;		
_	10.14	J2-J4 - 3 PCC03SAAN SULLINS		CULLING	DCCCCC A A N	STRAIGHT THROUGH; 3PINS; -65 DEGC TO +125			
2	J2-J4	-	3	PCC03SAAN	SULLINS	PCC03SAAN	DEGC CONNECTOR: MALE; THROUGH HOLE; BREAKAWAY;		
3	J5-J8	L	4	PEC02SAAN	SULLINS	PEC02SAAN	STRAIGHT; 2PINS		
_ Ŭ	00 00			1 200207 \$ 114	PHOENIX	1 20020/0111	CONNECTOR; FEMALE; THROUGH HOLE; GREEN		
4	J9	-	1	1935200	CONTACT	1935200	TERMINAL BLOCK; STRAIGHT; 6PINS		
					JOHNSON		CONNECTOR; END LAUNCH JACK RECEPTACLE;		
5	J10. J11			BOARDMOUNT: STRAIGHT THROUGH: 2PINS:					
							RESISTOR; 0603; 120 OHM; 5%; 200PPM; 0.10W;		
6	R2, R3	-	2	CRCW0603120RJN	VISHAY DALE	120	THICK FILM		
	TP1, TP2,						TEST POINT; PIN DIA=0.125IN; TOTAL		
	TP3, TP13-						LENGTH=0.445IN; BOARD HOLE=0.063IN; YELLOW;		
7	TP16	-	7	5014	N/A	5014	PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;		
	TP4, TP7,						TEST POINT: PIN DIA=0.125IN: TOTAL		
	TP8, TP10,						LENGTH=0.445IN; BOARD HOLE=0.063IN; BLACK;		
8	TP11		5	5011	N/A	5011	PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;		
-0	TP6, TP9,			3011	IN/A	3011	TESTPOINT WITH 1.80MM HOLE DIA, RED,		
9	TP12	_	3	5010	KEYSTONE	N/A	MULTIPURPOSE;		
Ť	2		Ť	0010	KETOTOKE	14/7 (INDETH OIL GOL,		
							EVKIT PART-MODULE; 2.5KVRMS ISOLATED;		
							25MBPS; FULL-DUPLEX; RS-485/RS-422		
							TRANSCEIVERS WITH +/-35KV ESD PROTECTION;		
10	U1	-	1	MAXM22511	MAXIM	MAXM22511	LGA44; PACKAGE OUTLINE DRAWING: 21-100178		
							IC; PROT; ASYMMETRICAL TVS DIODE FOR		
11	U2, U3	-		SM712.TCT	SEMTECH	SM712.TCT	EXTENDED COMMON-MODE RS-485; SOT23-3		
12	PCB	-	1	MAXM22511 GRM188R71E105KA12D;	MAXIM	PCB	PCB:MAXM22511		
				CGA3E1X7R1E105K;	MURATA;				
				· '	TDK;TAIYO		CADACITOD, CMT (0000), CEDAMIC CLUB, 4HE, 05V.		
				ΙΙΜΚ 10 / Β / 105Κ Δ·					
13	C1 C4 C6	DNP	٥	TMK107B7105KA;		1LIF	CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 25V;		
13	C1, C4, C6	DNP	0	06033C105KAT2A	YUDEN;AVX	1UF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R		
13	C1, C4, C6	DNP	0	,		1UF	, , , , , , , , , , , , , , , , , , , ,		
13	C1, C4, C6 C2, C3, C5			,		1UF 0.1UF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R		
	, ,			06033C105KAT2A	YUDEN;AVX		TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125		
	, ,		0	06033C105KAT2A	YUDEN;AVX TDK		TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP		
14	C2, C3, C5	DNP DNP	0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1	YUDEN;AVX TDK VISHAY VITRAMON	0.1UF 3300PF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC		
14	C2, C3, C5	DNP	0	06033C105KAT2A C1608X7R1E104K080AA	YUDEN;AVX TDK VISHAY VITRAMON MURATA	0.1UF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP		
14	C2, C3, C5	DNP DNP	0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS	0.1UF 3300PF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP		
14 15 16	C2, C3, C5 C10 C11	DNP DNP	0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS	0.1UF 3300PF 1000PF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY;		
14	C2, C3, C5	DNP DNP	0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS	0.1UF 3300PF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC		
14 15 16	C2, C3, C5 C10 C11	DNP DNP	0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP.	0.1UF 3300PF 1000PF PBC08SAAN	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W;		
14 15 16	C2, C3, C5 C10 C11	DNP DNP	0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS	0.1UF 3300PF 1000PF	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM		
14 15 16 17	C2, C3, C5 C10 C11 J1 R1, R5	DNP DNP DNP	0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK	TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE	0.1UF 3300PF 1000PF PBC08SAAN	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W;		
14 15 16	C2, C3, C5 C10 C11	DNP DNP	0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP.	0.1UF 3300PF 1000PF PBC08SAAN 49.9	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK		
14 15 16 17	C2, C3, C5 C10 C11 J1 R1, R5	DNP DNP DNP	0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK	TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE	0.1UF 3300PF 1000PF PBC08SAAN 49.9	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK		
14 15 16 17	C2, C3, C5 C10 C11 J1 R1, R5	DNP DNP DNP	0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK CRCW12100000Z0	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE VISHAY DALE	0.1UF 3300PF 1000PF PBC08SAAN 49.9	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM		
14 15 16 17 18 19	C2, C3, C5 C10 C11 J1 R1, R5 R4 R6	DNP DNP DNP DNP	0 0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK CRCW12100000Z0 CRCW060310K0FK;ERJ-3EKF1002	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE VISHAY DALE VISHAY DALE; PANASONIC	0.1UF 3300PF 1000PF PBC08SAAN 49.9	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM RESISTOR; 0603; 10K; 1%; 100PPM; 0.10W; THICK FILM		
14 15 16 17 18 19	C2, C3, C5 C10 C11 J1 R1, R5 R4 R6 R7, R9,	DNP DNP DNP DNP DNP	0 0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK CRCW12100000Z0 CRCW060310K0FK;ERJ-3EKF1002 CRCW06031K00FK;ERJ-	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE VISHAY DALE VISHAY DALE VISHAY DALE; PANASONIC VISHAY DALE;	0.1UF 3300PF 1000PF PBC08SAAN 49.9 0	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM RESISTOR; 0603; 10K; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 0603; 11K; 1%; 100PPM; 0.10W; THICK FILM		
14 15 16 17 18 19	C2, C3, C5 C10 C11 J1 R1, R5 R4 R6	DNP DNP DNP DNP	0 0 0 0	06033C105KAT2A C1608X7R1E104K080AA VJ2220Y332KXUSTX1 GA352QR7GF102KW01 PBC08SAAN CRCW060349R9FK CRCW12100000Z0 CRCW060310K0FK;ERJ-3EKF1002	YUDEN;AVX TDK VISHAY VITRAMON MURATA SULLINS ELECTRONICS CORP. VISHAY DALE VISHAY DALE VISHAY DALE; PANASONIC	0.1UF 3300PF 1000PF PBC08SAAN 49.9	TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R CAPACITOR; SMT (0603); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (2220); 3300PF; 10%; 250V; X7R; CERAMIC CHIP CAP; SMT (2211); 1000PF; 10%; 250V; X7R; CERAMIC CHIP CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 8PINS; -65 DEGC TO +125 DEGC RESISTOR; 0603; 49.9 OHM; 1%; 100PPM; 0.10W; THICK FILM RESISTOR; 1210; 0 OHM; 0%; JUMPER; 0.5W; THICK FILM RESISTOR; 0603; 10K; 1%; 100PPM; 0.10W; THICK FILM		

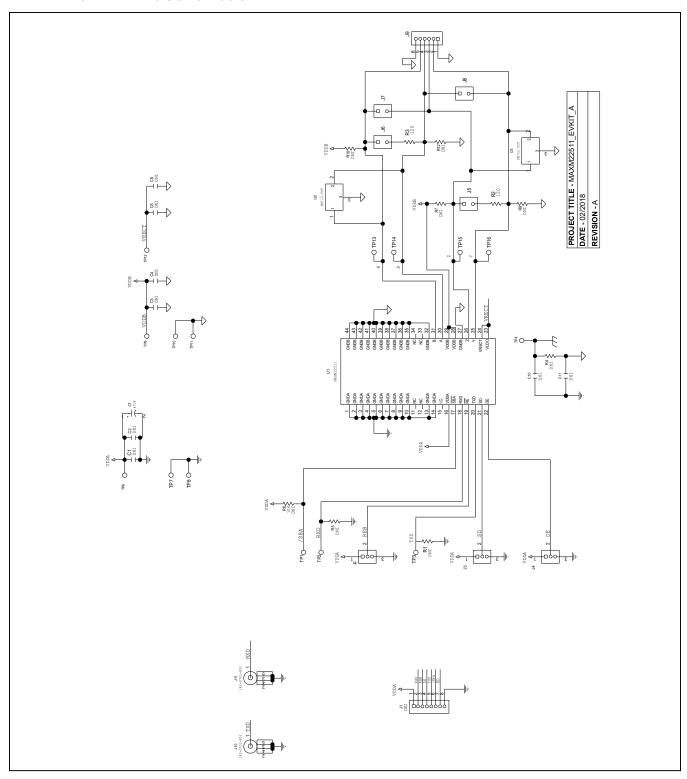
Evaluates: MAXM22511

NOTE: DNI--> DO NOT INSTALL(PACKOUT); DNP--> DO NOT PROCURE

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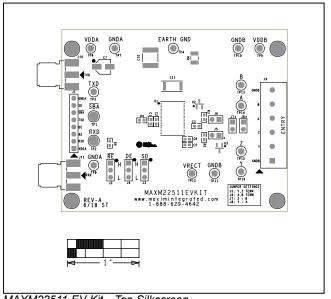
Evaluates: MAXM22511

MAXM22511 EV Kit Schematic

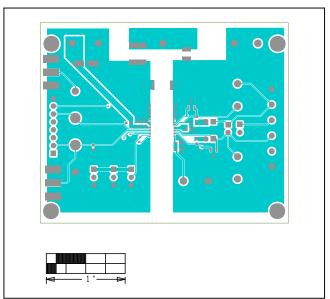


Evaluates: MAXM22511

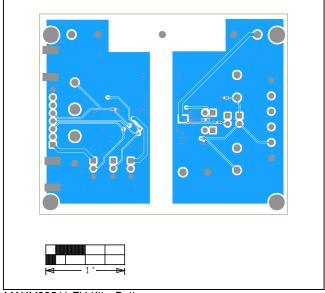
MAXM22511 EV Kit PCB Layout Diagrams



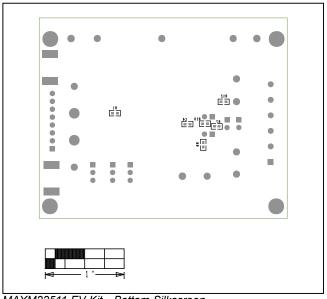
MAXM22511 EV Kit—Top Silkscreen



MAXM22511 EV Kit—Top



MAXM22511 EV Kit—Bottom



MAXM22511 EV Kit—Bottom Silkscreen

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MAXM22511 Evaluation Kit

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	8/18	Initial release	_

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Evaluates: MAXM22511