

EVKit Part Number: MAX2850EVKIT+			Associated schematic: F		
Revision: G			Associated Layout: 2850_2		
Lead Designer:					
Lead Layout:					
Date Last Edited: 6-18-13					
Item	Reference	Qty	Value	Tolerance	Description
1	C1 C7	2	1.2pF	0.1pF	0402 Capacitor
2	C2 C9 C11 C18 C24 C26 C49	7	1000pF	10%	0402 Capacitor
3	C3 C6 C25 C28 C40 C100	6	0.01uF	10%	0402 Capacitor
4	C4 C5 C36	3	2.4nH	0.1nH	0402 Inductor
5	C8 C39	2	3.9nH	0.1nH	0402 Inductor
6	C10 C12 C13 C17 C19 C20 C21 C22 C32 C34 C41 C47 C52 C53 C54 C61 C66 C67 C68 C69 C70 C83 C103 C104	0	DNI		0402 Capacitor
7	C14	1	1.0pF	0.25pF	0402 Capacitor
8	C15	1	1.3nH	0.1nH	0402 Inductor
9	C16 C27 C42 C46 C62 C63 C64 C65 C71 C72 C73 C74 C75 C76 C77 C78 C84 C85 C87 C88 C89 C90 C93 C94 C95 C97 C98 C99	28	0.1uF	10%	0402 Capacitor
10	C23	1	33pF	5%	0402 Capacitor
11	C29	1	2.0nH	0.1nH	0201 Inductor
12	C30 C35	2	1.0pF	0.1pF	0402 Capacitor
13	C31	1	3.6nH	0.1nH	0402 Inductor
14	C33	1	4.3nH	0.1nH	0402 Inductor
15	C37 C38 C55 C60 C106	5	47pF	5%	0402 Capacitor
16	C43 C48	2	1.0uF	10%	0402 Capacitor
17	C44	1	5.6pF	0.1pF	0402 Capacitor
18	C45	1	2200pF	10%	0402 Capacitor
19	C50	1	39pF	5%	0402 Capacitor
20	C51	1	1000pF	5%	0402 Capacitor
21	C56 C59 C79 C82	4	10uF	10%	1206 Capacitor
22	C57 C58 C80 C81 C91 C101	6	1.0uF	20%	1206 Capacitor
23	C86 C102	0	DNI		1206 Capacitor
24	C92 C96	2	5.0pF	0.1pF	0402 Capacitor
25	C105 C107 C108 C109 C110 C111 C112 C113	8	0.01uF	10%	0603 Capacitor

26	R1 R8 R9 R34 R35 R42 R52 R58 R59 R64 R65 R66 R67 R69 R70 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91 R92 R93 R94 R95 R96 R97 R98 R99 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R112 R113 R114 R115 R116 R117 R118 R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R131 R132 R133 R134	0	DNI		0402 Resistor
27	R2 R7 R17 R19 R33 R40 R53 R55	8	200 ohm	1%	0402 Resistor
28	R3 R5 R6 R13 R15 R18 R23 R29 R31 R38 R39 R41 R47 R49 R54 R56	16	205 ohm	1%	0402 Resistor
29	R4 R10 R14 R16 R30 R32 R48 R50	8	226 ohm	1%	0402 Resistor
30	R11 R12 R21 R22 R27 R28 R45 R46	8	61.9 ohm	1%	0402 Resistor
31	R20 R51	2	392 ohm	1%	0402 Resistor
32	R24	1	301 ohm	1%	0402 Resistor
33	R25	1	1k		Potentiometer
34	R26	1	620 ohm	5%	0402 Resistor
35	R36 R37 R43 R44	1	5.1k	5%	0402 Resistor
36	R57	1	100 ohm	5%	0402 Resistor
37	R60 R62	2	49.9 ohm	1%	0402 Resistor
38	R61 R63 R68	3	10k	1%	0402 Resistor
39	R100	1	66.5k	1%	0402 Resistor
40	R101	1	25.5k	1%	0402 Resistor
41	L1 L2 L3 L4 L5 L6 L7 L8 L11 L12	0	DNI		0402 Inductor
42	T1 T2 T3 T4 T5	5	5400BL15B100		0805 Ceramic Balun 5400MHZ
43	U1	1	MAX2850		5GHz, 4-Channel MIMO Transmitter
44	U2	0	DNI		
45	U3	0	DNI		
46	U4	1	40MHz		Crystal
47	U5 U6 U7 U8 U11 U12 U14 U15	8	LMH6551MA		Differential Hi-Speed Op Amp
48	U9	1	MAX6062		Precision, Micropower, Low-Dropout, High-Output-Current, SOT23 Voltage Reference
49	U13 U16	0	MAX8510 DNI		
50	U17 U18	2	MAX4444		Ultra-High-Speed, Low-Distortion, Differential-to-Single-Ended Line Receivers with Enable
51	RXBB1 RXBBQ TXBB11 TXBB12 TXBB13 TXBB14 TXBBQ1 TXBBQ2 TXBBQ3 TXBBQ4	10	Connector		SMA End Launch Jack Receptacle 0.062"

52	TXRF1 TXRF2 TXRF3 TXRF4 RXRF	5	Connector		SMA End Launch Jack Receptacle 0.062"
53	CLKOUT XTAL	0	Connector DNI		SMA End Launch Jack Receptacle 0.062"
54	J1	0	Connector DNI		
55	J2	1	2X10 Pin Header		Dual In-Line Header, 100 mil centers
56	JP1	1	2X3 Pin Header		Dual In-Line Header, 100 mil centers
57	JP2	1	2X12 Pin Header		Dual In-Line Header, 100 mil centers
58	JP5	1	2X16 Pin Header		Dual In-Line Header, 100 mil centers
59	JP4 JPRXBBI+ JPRXBBI- JPRXBBQ+ JPRXBBQ- JPTXBBI1 JPTXBBI2 JPTXBBI3 JPTXBBI4 JPTXBBQ1 JPTXBBQ2 JPTXBBQ3 JPTXBBQ4	13	1X2 Pin Header		Single In-Line Header, 100 mil centers
60	RXBBBUF2	1	1X3 Pin Header		Single In-Line Header, 100 mil centers
61	JP6	0	1X3 Pin Header DNI		Single In-Line Header, 100 mil centers
62	VCM1 J7	2	Test Point		PC Mini - Red
63	J3 J5	2	Test Point		PC Mini - White
64	J4 J6 J8 J10	4	Test Point		PC Mini - Black
65	J9	1	Test Point		PC Mini - Yellow
66	JPRXBBI+ JPRXBBI- JPRXBBQ+ JPRXBBQ- RXBBBUF2 - Install on Pin 1 & 2	5	Shunt		Shorting Jumper
67	Pack-Out Instruction				Brown Box 9 3/16" x 7" x 1 1/4"
68					ESD Bag 5"x8" w/ESD Logo
69					Pink Foam 12"x12"x 5MM
70					Web Instructions
71					INTF3000+ Interface Board
72					36" Socket Connector Ribbon Cable - 20 Contacts

Revision History

- F C19, C20, C21, C22 (100pF) and C104 (20pF) changed to "Do Not Install".
- G Added ribbon cable to Pack-Out BOM.

Manufacturer	Part Number
Murata	GRM1555C1H1R2B
Murata	GRM155R71H102K
Murata	GRM155R71E103K
Murata	LQP15MN2N4B02
Murata	LQP15MN3N9B02
	Leave Site Open
Murata	GRM1555C1H1R0C
Murata	LQP15MN1N3B02
Murata	GRM155R61A104K
Murata	GRM1555C1H330J
Murata	LQP03TN2N0C00
Murata	GRM1555C1H1R0B
Murata	LQP15MN3N6B02
Murata	LQP15MN4N3B02
Murata	GRM1555C1H470J
Murata	GRM155R61A105K
Murata	GRM1555C1H5R6B
Murata	GRM155R71H222K
Murata	GRM1555C1H390J
Murata	GRM1555C1H102J
Murata	GRM31CR60J106K
Murata	GRM31MR71C105M
	Leave Site Open
Murata	GRM1555C1H5R0B
Murata	GRM188R71E03K

	Leave Site Open
	Use Lead-Free Parts Only
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	3296W-1-102LF
	Use Lead-Free Parts Only
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	Leave Site Open
Johanson Technology	5400BL15B100
Maxim Integrated	MAX2850ITK+
	MAX8869EUE33+ Leave Site Open
	KT3225R40000ECV28ZAA Leave Site Open
Kyocera	CX2520SB40000H0WZK06
National Semiconductor	LMH6551MA/NOPB
Maxim Integrated	MAX6062AEUR+
Maxim Integrated	MAX8510EXK33+ Leave Site Open
Maxim Integrated	MAX4444ESE+
Johnson	142-0701-801 Cut center pin of each SMA to 1/4" length before installing

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Johnson	142-0701-801
	QTH-020-01-L-D-DP-A-K Leave Site Open
Sullins	PEC36DAAN
Sullins	PEC36DAAN
Sullins	PEC36DAAN
Sullins	PEC36DAAN
Sullins	PEC36SAAN
Sullins	PEC36SAAN
Sullins	PEC36SAAN Leave Site Open
Keystone	5000
Keystone	5002
Keystone	5001
Keystone	5004
Kycon	SX1100-B
3M	M3AAA-2036R

5-Feb-13

S. Harris

18-Jun-13

S. Harris