

EVKit Part Number: MAX2851EVKIT+			Associated schematic: E		
Revision: F			Associated Layout: 2851_2		
Lead Designer:					
Lead Layout:					
Date Last Edited: 6-18-13					
Last Edited by (whom):					
Item	Reference	Qty	Value	Tolerance	Description
1	C1 C2 C3 C4 C6 C9 C10 C12 C31	9	1000pF	10%	0402 Capacitor
2	C5 C76	2	47pF	5%	0402 Capacitor
3	C7 C24	2	0.01uF	10%	0402 Capacitor
4	C8 C11 C15 C30 C68 C70 C71 C72 C74 C75 C77 C79 C80 C81 C83 C84 C85 C87 C88 C89 C91 C92 C93 C95 C96 C97 C99 C100 C101 C103 C104 C105 C107 C108 C109 C110 C111 C112 C113 C127 C128	41	0.1uF	10%	0402 Capacitor
5	C13 C22	2	1.0uF	10%	0402 Capacitor
6	C14	1	2.2uF	20%	0402 Capacitor
7	C16 C18 C20 C21 C25 C26 C27 C28 C33 C34 C35 C37 C40 C41 C43 C46 C47 C49 C52 C53 C55 C58 C61 C64 C65 C67 C120 C124	0	DNI		0402 Capacitor
8	C17 C38 C121 C125	0	DNI		1206 Capacitor
9	C19	1	10pF	0.1pF	0402 Capacitor
10	C23	1	39pF	5%	0402 Capacitor
11	C29	1	5.6pF	0.1pF	0402 Capacitor
12	C32	1	33pF	5%	0402 Capacitor
13	C36 C42 C48 C54 C66	5	0 ohm	5%	0402 Resistor
14	C59	1	3.0nH	0.1nH	0402 Inductor
15	C60	1	1.2pF	0.1pF	0402 Capacitor
16	C69 C73 C78 C82 C86 C90 C94 C98 C102 C106	10	5.0pF	0.1pF	0402 Capacitor
17	C114 C116 C118 C122	4	10uF	10%	1206 Capacitor
18	C115 C117 C119 C123	4	1.0uF	20%	1206 Capacitor
19	R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R35 R37 R38 R40 R42 R43 R44 R45 R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56 R57 R91 R92 R93 R94 R95 R96 R97 R98 R100 R101 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R112 R113 R114 R115 R121 R122 R123 R124 R125 R126 R127	0	DNI		0402 Resistor
20	R34 R36	2	390 ohm	5%	0402 Resistor
21	R39	0	1k DNI		Potentiometer

22	R41 R58 R60 R62 R64 R66 R68 R70 R72 R74 R76	11	10k	1%	0402 Resistor
23	R59 R61 R63 R65 R67 R69 R71 R73 R75 R77	10	49.9 ohm	1%	0402 Resistor
24	R78	1	620 ohm	5%	0402 Resistor
25	R79	1	1k		Potentiometer
26	R80	1	301 ohm	1%	0402 Resistor
27	R81 R86	2	61.9 ohm	1%	0402 Resistor
28	R82 R87	2	200 ohm	1%	0402 Resistor
29	R83 R85 R89 R90	4	205 ohm	1%	0402 Resistor
30	R84 R88	2	226 ohm	1%	0402 Resistor
31	R99	1	20 ohm	5%	0402 Resistor
32	R116 R117 R118 R119	4	5.1k	5%	0402 Resistor
33	R120	1	100 ohm	5%	0402 Resistor
34	L1 L2 L3 L4 L5 L6	0	DNI		0402 Inductor
35	T1 T2 T3 T4 T5 T6	6	5400BL15B100		0805 Ceramic Balun 5400MHZ
36	U1	1	MAX2851		5GHz, 4-Channel MIMO Transmitter
37	U2	1	40MHz		Crystal
38	U3	0	DNI		
39	U4 U5 U6 U7 U8 U9 U10 U11 U12 U13	10	MAX4444		Ultra-High-Speed, Low-Distortion, Differential-to-Single-Ended Line Receivers with Enable
40	U14 U15	2	LMH6551MA		Differential Hi-Speed Op Amp
41	U16	1	MAX6062		Precision, Micropower, Low-Dropout, High-Output-Current, SOT23 Voltage Reference
42	U17 U18	0	MAX8510 DNI		
43	U19	0	MAX8869 DNI		
44	RXBBI1 RXBBI2 RXBBI3 RXBBI4 RXBBI5 RXBBQ1 RXBBQ2 RXBBQ3 RXBBQ4 RXBBQ5 RXRF1 RXRF2 RXRF3 RXRF4 RXRF5 TXBBI TXBBQ TXRF	18	Connector		SMA End Launch Jack Receptacle 0.062"
45	CLKOUT	0	Connector DNI		SMA End Launch Jack Receptacle 0.062"
46	J1	0	Connector DNI		
47	J2	1	2X10 Pin Header		Dual In-Line Header, 100 mil centers
48	JP1	1	2X3 Pin Header		Dual In-Line Header, 100 mil centers
49	JP2	1	2X7 Pin Header		Dual In-Line Header, 100 mil centers

50	JP3	1	2X11 Pin Header		Dual In-Line Header, 100 mil centers
51	JP4	0	1X2 Pin Header DNI		Single In-Line Header, 100 mil centers
52	JPRXBBI1+ JPRXBBI1- JPRXBBI2+ JPRXBBI2- JPRXBBI3+ JPRXBBI3- JPRXBBI4+ JPRXBBI4- JPRXBBI5+ JPRXBBI5- JPRXBBQ1+ JPRXBBQ1- JPRXBBQ2+ JPRXBBQ2- JPRXBBQ3+ JPRXBBQ3- JPRXBBQ4+ JPRXBBQ4- JPRXBBQ5+ JPRXBBQ5- JPTXBBI+ JPTXBBI- JPTXBBQ+ JPTXBBQ-	24	1X2 Pin Header		Single In-Line Header, 100 mil centers
53	RXBBBUF1	1	1X3 Pin Header		Single In-Line Header, 100 mil centers
54	JP6	0	1X3 Pin Header DNI		Single In-Line Header, 100 mil centers
55	JP7 NOTE: Install only 2-Pin header between Pin 9 & Pin 10	1	1X2 Pin Header		Single In-Line Header, 100 mil centers
56	VCM J11 J12 J13	4	Test Point		PC Mini - Red
57	J3 J5	2	Test Point		PC Mini - White
58	J4 J6 J8 J10	4	Test Point		PC Mini - Black
59	J7 J9	2	Test Point		PC Mini - Yellow
60	JP7 RXBBBUF1 - Center Pin to +5V	5	Shunt		Shorting Jumper
61	Pack-Out Instruction				Brown Box 9 3/16" x 7" x 1 1/4"
62					ESD Bag 5"x8" w/ESD Logo
63					Pink Foam 12"x12"x 5MM
64					Web Instructions
65					INTF3000+ Interface Board
66					36" Socket Connector Ribbon Cable - 20 Contacts

Revision History

- E C34, C40, C46, C52, C64 (22pF) and C58 (1000pF) changed to "Do Not Install". JP7 changed to 1X2 Pin Header.
- F Added ribbon cable to Pack-Out BOM.

Manufacturer	Part Number
Murata	GRM155R71H102K
Murata	GRM1555C1H470J
Murata	GRM155R71E103K
Murata	GRM155R61A104K
Murata	GRM155R61A105K
Murata	GRM155R60J225M
	Leave Site Open
	Leave Site Open
Murata	GRM1555C1H100B
Murata	GRM1555C1H390J
Murata	GRM1555C1H5R6B
Murata	GRM1555C1H330J
	Use Lead-Free Parts Only
Murata	LQP15MN3N0B02
Murata	GRM1555C1H1R2B
Murata	GRM1555C1H5R0B
Murata	GRM31CR60J106K
Murata	GRM31MR71C105M
	Leave Site Open
	Use Lead-Free Parts Only
	3296W-1-103LF
	Leave Site Open

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	Use Lead-Free Parts Only
	Leave Site Open
Johanson Technology	5400BL15B100
Maxim Integrated	MAX2851ITK+
Kyocera	CX2520SB40000H0WZK06
	KT3225R40000ECV28ZAA Leave Site Open
Maxim Integrated	MAX4444ESE+
National Semiconductor	LMH6551MA/NOPB
Maxim Integrated	MAX6062AEUR+
Maxim Integrated	MAX8510EXK33+ Leave Site Open
Maxim Integrated	MAX8869EUE33+ Leave Site Open
Johnson	142-0701-801 Cut center pin of each SMA to 1/8" length before installing
Johnson	142-0701-801
	QTH-020-01-L-D-DP-A-K Leave Site Open
Sullins	PEC36DAAN
Sullins	PEC36DAAN
Sullins	PEC36DAAN

Sullins	PEC36DAAN
Sullins	PEC36DAAN Leave Site Open
Sullins	PEC36SAAN
Sullins	PEC36SAAN
Sullins	PEC36SAAN Leave Site Open
Sullins	PEC36SAAN
Keystone	5000
Keystone	5002
Keystone	5001
Keystone	5004
Kycon	SX1100-B
3M	M3AAA-2036R

7-Feb-13

S. Harris

18-Jun-13

S. Harris