

EVKIT Part Number: MAX2837EVKIT+
EVKIT Board Revision: 1
EVKIT Sftwr filename: 2837_1d.xls
Schematic Revision: 1c

Lead-Free = Y or N / RoHS Compliant Only = R

LF / RoHS	Ref Designator	Qty	Value	Tol	Description	Manufacturer
--	C1, C3, C8, C20, C21, C22, C24, C44, C76, C78	0	Do Not Install		0402 Capacitor	
Y	C2, C9, C15, C16, C19, C70, C89	7	22pF	5%	0402 Capacitor	Murata
Y	C4, C5, C6, C7, C10, C13, C17, C18, C40, C45, C46, C59, C60, C67, C83	15	100nF	10%	0402 Capacitor	Murata
Y	C11, C23, C26, C28, C32, C34, C73, C74, C75, C87, C88	11	10nF	10%	0402 Capacitor	Murata
Y	C12, C53, C55, C66	4	10uF	10%	0805 Capacitor	Murata
Y	C14	1	3300pF	10%	0402 Capacitor	Murata
Y	C25, C77	2	1000pF	10%	0402 Capacitor	Murata
Y	C27	1	2.2uF	10%	0805 Capacitor	Murata
Y	C29, C86	2	1.0uF	10%	0402 Capacitor	Murata
Y	C36, C37, C38, C39	4	2.2uF	10%	0603 Capacitor	Murata
Y	C68, C69	2	3pF	5%	0402 Capacitor	Murata
Y	C79	1	180pF	5%	0402 Capacitor	Murata
Y	C81	1	100pF	5%	0402 Capacitor	Murata
Y	R1, R7	2	200 ohm	1%	0402 Resistor	Kamaya
Y	R2, R5, R6, R38	4	205 ohm	1%	0402 Resistor	Kamaya
Y	R3, R10	2	226 ohm	1%	0402 Resistor	
Y	R4, R26	2	49.9 ohm	1%	0402 Resistor	
Y	R8, R9, R12, R13, R14, R15, R16, R17, R18, R19, R23, R24, R25, R28, R29, R31, R32, R40, R41, R45, R47, R48	22	0 ohm		0402 Resistor	
Y	R11, R30, R35, R42, R50, R52	0	Do Not Install		0402 Resistor	
Y	R20, R51	2	475 ohm	1%	0402 Resistor	
Y	R21, R22	2	61.9 ohm	1%	0402 Resistor	
Y	R33, R36	2	1K		Trimmer Potentiometer 3296 Series 3/8" Square/25turn/Sealed	Bourns
Y	R34	1	576 ohm	1%	0402 Resistor	
Y	R37	1	332 ohm	1%	0402 Resistor	
Y	L1	1	6.2nH	0.1nH	0402 Inductor	Murata
--	L2, L3, L7	0	Do Not Install		0402 Inductor	
Y	T1, T2	2	2.4GHz		RF Balun	Murata

Y	U1, U3	2	AD8139		Low Noise Rail-to-Rail Differential ADC Driver SOIC	Analog Devices
Y	U2, U6	2	MAX4444		Differential-to-Single-Ended Line Rcvr	Maxim Integrated Products
Y	U4	1	MAX2837		2.5GHz Broadband Transciever	Maxim Integrated Products
Y	U7	1	MAX8887		Low Dropout 300mA Linear Regulator	Maxim Integrated Products
Y	U8, U9	2	SN74LVTH244		Octal Buffer/Driver	Texas Instruments
Y	U10	1	MAX6062		Precision, Micropower, Low-Dropout, High-Output-Current, Voltage Reference	Maxim Integrated Products
Y	U11	1	40MHz		TCXO	Kyocera
Y	U12, U13, U14	3	MAX8510		Ultra-low noise 120mA Low Dropout Regulator	Maxim Integrated Products
--	Y1	0	40 MHz Do Not Install		Crystal	Kyocera
Y	CLKOUT, FREF, RXBBI, RXBBQ, RXRF, TXBBI, TXBBQ, TXRF	8	Connector		SMA End Launch Jack Receptacle 0.062"	Johnson
Y	J18	1	Connector		DB25 Horizontal Male PCB Connector AMP HD-20 Series	AMP
--	J17	0	Do Not Install		Dual In-Line Header	Sullins
--	VCCCP1, VCCLNA, VCCPLL, VCCRxBB1, VCCRxBB2, VCCRXXMX, VCCTXMX, VCCXTAL, VCC_DB, VCC_PAD, VCC_REF, VCC_TCXO, VC_VCO	0	1X2 Header Do Not Install		36-Pin Header 0.01" Centers - Cut to fit	Sullins
Y	JPB1, JPB2, JPB3, JPB4, JPB5, JPB6, JPB7, JPRXHP, JP SHDNB, RXBBBUF, RXEN, TXEN, VBAT_LDO, VCCVCO, VCCVCO1, VCCVCO2	16	1X3 Header		36-Pin Header 0.01" Centers - Cut to fit	Sullins
--	JP2CSB, JPSPICLK, JPSPIDIN, JPSPIDOUT	0	1X3 Header Do Not Install		36-Pin Header 0.01" Centers - Cut to fit	Sullins
Y	+5V, -5V, VBAT, VCCAUX	4	Test point		Test Point, PCB Red	Keystone
Y	GND1, GND2	2	Test Point		Test Point, PCB Black	Keystone
Y	B1, B2, B3, B4, B5, B6, B7, CLK_OUT, CSB, DIN DOUT, ENABLE, PABIAS, TXBBI+, RXBBI-, RXBBQ+, RXBBQ-, RXENABLE, RXHP, SCLK, TUNEM, TUNEP, TXBBI+, TXBBI-, TXBBQ+, TXBBQ-, TXENABLE, TXENOUT/RSSI, VCM	29	Test Point		Test Point, PC Mini-Red	Keystone

Y	JPB1, JPB2, JPB3, JPB4, JPB5, JPB6, JPB7, JPRXHP, JPShDNB, RXBBBUF, RXEN, TXEN, VBAT_LDO, VCCVCO, VCCVCO1, VCCVCO2	16	Shunt		Shorting Jumper	Sullins
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MAX2837EVKIT+ Pack-Out BOM

Qty	Description
1	Box labeled with EVKIT Part Number and Lot Code Maxim Box 1: Standard Small
1	WEB instructions for Maxim Data Sheet: www.maxim-ic.com , search MAX2837
1	ESD Bag, unsealed. Sufficient in size to allow easy removal of circuit board assembly
1	ESD foam packing material sufficient to prevent PCB from moving within the box.
1	MAX2837EVKIT+ circuit board assembly
1	INTF3000+ Interface Board

Assembly Notes:

1. Each board must be marked with the alpha character that is part of the BOM Rev from this sheet. This mark is to appear in the white space color. An acceptable marker is a fine point Sanford's Sharpie.

Revision History:

- 1B Production Release
- 1C U11 part number updated to KT3225R40000ECV28ZAA. Was KT3225N40000ECV28ZAA.
- 1d Added INTF3000+ to Pack-Out BOM.

SAE Assigned:
DE Assigned:
CAE Assigned:
Last Date Edited: 28-May-2014
Edited by:

Part Number	Maxim Supplied	ENUM
Leave Site Open		--
GRM1555C1H220J	X	ECM0523
GRM155R61C104K	X	ECM0455
GRM155R71E103K	X	ECM0511
GRM21BR61A106K	X	ECM0592
GRM155R71H332K	X	ECM007
GRM155R71H102K	X	ECM0619
GRM21BR71A225K	X	ECM0201
GRM155R60J105K	X	ECM0422
GRM188R61A225K	X	ECM0433
GRM1555C1H3R0J	X	ECM0621
GRM1555C1H181J	X	ECM0622
GRM1555C1H101J	X	ECM0496
Use Lead-Free Parts Only		ER0104022000
Use Lead-Free Parts Only		ER0104022050
Use Lead-Free Parts Only		ER0104022260
Use Lead-Free Parts Only		ER01040249R9
Use Lead-Free Parts Only		ER0504020R00
Leave Site Open		--
Use Lead-Free Parts Only		ER0104024750
Use Lead-Free Parts Only		ER01040261R9
3296W-1-102LF		ER0643
Use Lead-Free Parts Only		ER0104025760
Use Lead-Free Parts Only		ER0104023320
LQW15AN6N2B00	X	EL1011
Leave Site Open		--
LDB182G5010G-120	X	ET0162

AD8139ARDZ		EQ0667
MAX4444ESE+	X	EU0692
MAX2837ETM+	X	EU02020
MAX8887EZK29+	X	EU02021
SN74LVTH244ADB		EQ0301
MAX6062AEUR+	X	EU01196
KT3225R40000ECV28ZAA	X	EX0332
MAX8510EXK29+	X	EU0734
CX3225SB40000H0WZK21		--
142-0701-801		EH0052
5747238-4		EH0185
PEC36SAAN		--
PEC36SAAN		--
PEC36SAAN		EH0072
PEC36SAAN		--
5010		EH0384
5011		EH0400
5000		EH0066

SSC02SYAN		EH0467
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E-Number
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ace labeled ASSY REV. This mark is to be indelible and black in

24-Apr-07

Sue Harris

29-Jun-07

Sue Harris

28-May-14

Amir Mirbagheri