

Evaluation Kit Build Bill of Materials

EVKIT Title: MAX2830EVKIT+
 EVKIT Board Revision: D
 Schematic Revision: D

Ref Designator	Qty	Value	Tol	Description	Manufacturer	Part Number
C1	1	33pF	5%	0402 Capacitor	Murata	GRM1555C1H330J
C3, C16, C70, C79, C81, C89	6	100pF	5%	0402 Capacitor	Murata	GRM1555C1H101U
C4	1	18pF	5%	0402 Capacitor	Murata	GRM1555C1H180J
C5, C7, C10, C11, C13, C17, C18, C21, C22, C29, C40, C42, C43, C45, C46, C50, C52, C54, C59, C60, C64, C67, C83, C86	24	0.1uF	10%	0402 Capacitor	Murata	GRM155R61A104K
C6, C9, C30, C41, C62, C73, C74, C75, C87, C88	10	0.01uF	10%	0402 Capacitor	Murata	GRM155R71C103K
C8, C44, C48, C49, C71, C72, C77	0	Do Not Install				Leave Site Open
C12, C51, C53, C55, C63, C65, C66	7	10uF	20%	Tantalum Cap - 'R' Case	AVX	TAJR106M006
C61	1	10uF	10%	1206 Capacitor	Murata	GRM31CR60J106K
C68, C69	2	0 ohm	5%	0402 Resistor	Murata	Use Lead-Free parts only
C76	1	1000pF	5%	0402 Capacitor	Murata	GRM155R71H102J
C78	1	2200pF	10%	0402 Capacitor	Murata	GRM155R71H222K
C80	1	68pF	5%	0402 Capacitor	Murata	GRM1555C1H680J
C82	1	10uF	10%	0805 Capacitor	Murata	GRM21BR60J106K
R1, R2, R6, R10, R16, R17, R22, R27	8	75 ohm	1%	0402 Resistor		Use Lead-Free parts only
R3, R7, R18, R23	4	3.3K	5%	0402 Resistor		Use Lead-Free parts only
R4, R5, R21, R26	4	49.9 ohm	1%	0402 Resistor		Use Lead-Free parts only
R8, R9, R12, R13, R28, R29, R31, R32	8	0 ohm	5%	0402 Resistor		Use Lead-Free parts only
R11, R30, R38, R46, R50	0	Do Not Install				Leave Site Open
R14	1	270 ohm	5%	0402 Resistor		Use Lead-Free parts only
R39, R45	2	100 ohm	1%	0402 Resistor		Use Lead-Free parts only
R43	1	1K	1%	0402 Resistor		Use Lead-Free parts only
R51	1	1.2K	5%	0402 Resistor		Use Lead-Free parts only
R52	1	750 ohm	5%	0402 Resistor		Use Lead-Free parts only
R53	1	10K	5%	0402 Resistor		Use Lead-Free parts only
L1, L2, L7	0	Do Not Install				Leave Site Open
T1	0	Do Not Install				Leave Site Open
T2, T3	2	2.4GHz		RF Balun	Murata	LDB212G4010C-001
Y1	1	40MHz		Crystal	Kyocera Electronic Devices LLC	CX3225SB4000H0WZK21
U1, U5	2	MAX4447		Differential Line Driver	Maxim	MAX4447ESE+
U2, U6	2	MAX4444		Differential-to-Single-Ended Line Receiver	Maxim	MAX4444ESE+
U3	1	MAX6061		Low-Dropout, High-Output-Current, Voltage Reference	Maxim	MAX6061BEUR+
U4	1	MAX2830		WLAN 802.11ag Transceiver	Maxim	MAX2830ETM+
U8, U9	2	SN74LVTH244		Octal Buffer/Driver	Texas Instruments	SN74LVTH244ADBR
U10	0	MAX8882		Linear Regulator	Maxim	MAX8882EUTJJ+
RXRF/ANT1, TXRF/ANT2, CLKOUT, RXBBI, RXBBQ, TXBBI, TXBBQ, FREF	8	Connector		SMA Edge Mount connector - round	Johnson	142-0701-801
J17	0	Do Not Install				Leave Site Open
J18	1	Connector		DB25 Right Angle Connector - Male	AMP	5747238-4
LDO_IN, VREG	2	1X2 Header		2 Pin In-Line Header, 0.01" centers	Sullins	PEC36SAAN
VCC1NA, VCCPA1, VCCPA2, VCCPLL, VCCRXBB1, VCCRXBB2, VCCRXMX, VCCTXMX, VCCXTAL, VCC_DB, VCC_REF	0	Do Not Install		2 Pin In-Line Header, 0.01" centers	Sullins	Leave Site Open
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO	5	1X3 Header		3 Pin In-Line Header, 0.01" centers	Sullins	PEC36SAAN
JPCSB, JPB1, JPB2, JPB3, JPB4, JPB6, JPB7, JPDIN, JPLD, JPRXHP, JPSCLK, JPShDNB	0	Do Not Install		3 Pin In-Line Header, 0.01" centers	Sullins	Leave Site Open
B1, B2, B3, B4, B5, B6, B7, CSB, DIN, LD, RSSI, RXBBI+, RXBBI-, RXBBQ+, RXBBQ-, RXHP, SCLK, SHDNB, TPANTSEL, TPCLKOUT, TPRXITX, TPTUNE, TPTXGMIN, TXBBI+, TXBBI-, TXBBQ+, TXBBQ-, +5V, -5V, GND1, GND2, VCCAUX, VBAT	33	Test Point		PC Mini Red	Keystone	5000
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO, LDO_IN	6	Shunt		Shorting Jumper, 2 position	Sullins	SSC02SYAN
See Assembly Note 3	1	--		MAX2830 Evaluation Kit+ Circuit Board	--	--

MAX2830EVKIT+ Pack-Out BOM

Qty	Description	E-Number
1	Box (labeled with EVKIT Part Number and Lot Number)	N/A
1	Maxim Box 1: Standard Small	N/A
1	WEB instructions for Maxim Data Sheet: www.maxim-ic.com , search MAX2830	N/A
1	ESD Bag, unsealed. Sufficient in size to allow easy removal of circuit board assembly	N/A
1	ESD foam packing material (to prevent PCB from moving within box)	N/A
1	MAX2830EVKIT+ circuit board assembly	N/A
1	INTF3000+ Interface Board	N/A

Assembly Notes:

- Each board must be marked with the BOM revision from this sheet. This mark is to appear in the white space labeled ASSY REV. This mark is to be indelible and black in color. An acceptable marker is a fine point Sanford's Sharpie.
- This IC has an exposed paddle. It must be solder attached to the circuit board to ensure proper functionality of the part.
- Shunt should be installed between Pin 1 and Pin 2.

Revision History

3A	Production Release	28-Mar-07	Sue Harris
3B	Test Points: 'TXBB1+' was listed twice. Corrected one of these to TXBBQ-.	20-Oct-08	Sue Harris
D	Crystal footprint corrected. Silkscreen updated from MAX2830/31/32 + Evaluation Kit to MAX2831 Evaluation Kit+ because separate PCB created for MAX2830EVKIT+.	7-Dec-10	Sue Harris