

Part number	Quantity	Reference	Value	Description	Manufacturer	Manufacturer part number	PCB Package	Max operating temp	Note status	RoHS status
CC13xxEM-7XD-7793_4L										
13-00397	1	A1	Antenna PCB helix 868/915MHz	ANTENNA, NON COMPONENT, PCB HELIX 868/915MHz, NOT APPLY	TEXAS INSTRUMENTS	ANTENNA PCB HELIX 868/915MHz		N/A	PREFERRED	ROHS_COMPLIANT
02-01324	1	C1	DNM	CAPACITOR, DO NOT MOUNT, 0603, SMD						
02-06008	2	C11,C22	3.6pF	CAPACITOR, CERAMIC COG/NPO, 3.6pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R6CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04679	1	C12	2.7pF	CAPACITOR, CERAMIC COG/NPO, 2.7pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H2R7CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04608	1	C13	6.2pF	CAPACITOR, CERAMIC COG/NPO, 6.2pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H6R2CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04606	1	C14	3pF	CAPACITOR, CERAMIC COG/NPO, 3pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R0CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04365	2	C15,C21	100pF	CAPACITOR, CERAMIC COG/NPO, 100pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H101JA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04168	2	C41,C51	12pF	CAPACITOR, CERAMIC COG/NPO, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H120JA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-02323	6	C131,C221,C351,C441,C451,C481	100nF	CAPACITOR, CERAMIC X7R, 100nF, 6.3V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM155R70J104KA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-02381	1	C231	1uF	CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	MURATA	GRM155R61A105KE15D	402	+85DEGC	PREFERRED	ROHS_COMPLIANT
02-07053	2	C331,C341	22uF	CAPACITOR, CERAMIC X5R, 22uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD	MURATA	GRM188R60J226MEA0D	603	+85DEGC	PREFERRED	ROHS_COMPLIANT
02-01992	1	C342	100nF	CAPACITOR, CERAMIC X7R, 100nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0603, SMD	MURATA	GRM188R71E104KA01D	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-01235	1	C343	NC	CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0603, SMD	MANUFACTURER SELECTION	CAPACITOR_0603_N/A_M	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04164	3	C461,C471,C482	DNM	CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0402, SMD	Manufacturer selection	CAPACITOR_0402_DNM_N/A_M	402	+125DEGC	PREFERRED	PART NOT KNOWN
19-00111	6	FIDU1,FIDU2,FIDU3,FIDU4,FIDU5,FIDU6	FIDU_1MM	FIDUCIAL MARK, ROUND 1MM						
04-00470	1	FL1	BLM18HE152SN1	FILTER, EMI, 1500@100MHz, -55DEGC/+125DEGC, 0603, SMD	MURATA	BLM18HE152SN1D	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
06-02188	1	J1	SMA-10V21-TGG	CONNECTOR, COAX RF, STRAIGHT, FEMALE, 1 PIN, SMD	HUS-TSAN	SMA-10V21-TGG			PREFERRED	N/A
03-06536	1	L11	27nH	INDUCTOR, STANDARD, CHIP, 27nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS27NJ02D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
03-07022	2	L12,L21	7.5nH	INDUCTOR, CHIP, 7.5nH, -5%/+5%, IR:0.55A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS7N5J02D	402	+125DEGC	NOT_PREFERRED	ROHS_COMPLIANT
03-06633	2	L13,L14	6.8nH	INDUCTOR, CHIP, 6.8nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS6N8J02D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
03-01022	1	L15	TBD	INDUCTOR, TO BE DECIDED, 0402, SMD	MANUFACTURER SELECTION	IND_TBD_0402			PREFERRED	ROHS_COMPLIANT
03-07266	1	L331	6.8uH	INDUCTOR, CHIP, FERRITE CORE, 6.8uH, -20%/+20%, IR:1.1A, -55DEGC/+125DEGC, 0805, SMD	TDK	MLZ2012N6R8LT000	805	+125DEGC	PREFERRED	ROHS_COMPLIANT
06-02251	2	P1,P2	SFM-110-02-S D-A-K-TR	CONNECTOR, HEADER, FEMALE, STRAIGHT, 2 ROWS, 20 PINS, PITCH 1.27mm, SMD	SAMTEC	SFM-110-02-SM-D-A-K-TR		+125DEGC	PREFERRED	ROHS_COMPLIANT
01-11587	2	R11,R13	0	RESISTOR, THICK FILM, 0, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	MANUFACTURER SELECTION	RESISTOR_0402_0_+/-5%_50V_0.063W_M_+/-200PPM	402	+155DEGC	PREFERRED	ROHS_COMPLIANT
01-02472	1	R12	DNM	RESISTOR, DO NOT MOUNT, 0402, SMD	DO NOT MOUNT	DNM	402	N/A	PREFERRED	PART NOT KNOWN
01-12837	1	R351	100k	RESISTOR, THICK FILM, 100k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	MANUFACTURER SELECTION	RESISTOR_0402_100k_+/-1%_50V_0.063W_M_+/-100PPM	402	+155DEGC	PREFERRED	ROHS_COMPLIANT
18-28964	1	U1	CC13xx 7x7	IC, DIGITAL, CUSTOM, CC13xx 7x7, QFN48, SMD	TEXAS INSTRUMENTS	CC13xx 7x7	QFN48	N/A	PREFERRED	PART NOT KNOWN
12-00546	1	Y1	32.768kHz	CRYSTAL, RESONATOR, 32.768kHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD	EPSON	FC-135 32.7680KA-AGO		+85DEGC	PREFERRED	ROHS_COMPLIANT

12-00757	1	Y2	24MHz	CRYSTAL, CRYSTAL OSCILLATOR, 24MHz, -15PPM/DEGC/+15PPM/DEGC, -40DEGC/+85DEGC, SMD	EPSON	TSX-3225 24.0000MF15X-AC3		+85DEGC	PREFERRED	ROHS_COMPLIANT
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Item Number	Part Reference	Quantity	Description	Mfr_Name	Mfr_Part_Number
EK-TM4C123GXL					
1	C1 C2 C7 C12, C14	5	Capacitor, 0402, X5R, 10V, Low ESR	Johanson Dielectrics Inc	100R07X105KV4T
2	C25 C26 C31 C32	4	Capacitor, 10pF, 50V, 5%, NPO/COG, 0402	Murata	GRM1555C1H100JZ01D
3	C28 C29	2	Capacitor, 24pF, 50V, 5%, NPO/COG, 0402	TDK	C1005C0G1H240J
4	C3 C5 C8 C15 C18 C19 C21	7	Capacitor, 0.01uF 25V, 10% 0402 X7R	Taiyo Yuden	TMK105B7103KV-F
5	C4 C6 C10 C11 C17 C20 C23 C24	8	Capacitor, 0.1uF 16V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
6	C9 C22	2	Capacitor, 2.2uF, 16V, 10%, 0603, X5R	Murata	GRM188R61C225KE15D
7	D1	1	LED, Tri-Color RGB, 0404 SMD Common Anode	Everlight	18-038/RSGHBHC1-S02/2T
8	D4	1	LED, Green 565nm, Clear 0805 SMD	Lite-On	LTST-C171GKT
				Lite-On	LTST-C171GKT
9	H24	1	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate	3M	961102-6404-AR
				FCI	68001-102HLF
				Anyone	1x2-head
10	H25	1	Jumper, 0.100, Gold, Black, Closed	Sullins	SPC02SYAN
11	J1 J3	2	Header, 2x10, T-Hole Vertical unshrouded stacking	Samtec	SSW-110-23-S-D
12	J11	1		Hirose	ZX62-B-5PA
13	J2 J4	2	Header, 2x10, 0.100, SMT, Horizontal Unshrouded, 0.230 Mate	Samtec	TSM-110-01-S-DH-A-P-TR
				4UCON	10995
				Major League Electronics	TSHSM-110-D-02-T-H-AP-TR-P-LF
14	J9	1	Connector, USB micro AB Receptacle SMD	Hirose	ZX62-AB-5PA(11)
				Hirose	ZX62-AB-5PA
15	Q1 Q2 Q3	3	NPN SC70 pre-biased	Diodes Inc	DTC114EET1G
16	R1 R2 R9 R10 R11 R12 R13 R14 R16, R20 R26	11	Resistor, 0 OHM 1/10W 0603 SMD	Panasonic	ERJ-3GEY0R00V
17	R18 R19 R21 R22 R23 R28	6	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
18	R3 R4 R5 R8 R27	5	Resistor, 330 ohm, 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
19	R31	1	Resistor, 1M Ohm 1/10W, 5%, 0402	Rohm	MCR01MRTF1004
20	RESET SW1 SW2	3	Switch, Tact 6mm SMT, 160gf	Omron	B3S-1000
21	SW3	1	Switch, DPDT, SMT 300 mA*2 @ 6V	C&K Components	JS202011SCQN
22	U1 U2	2	Stellaris TIVA MCU TM4C123GH6PMI	Texas Instruments	TM4C123GH6PMI
				Texas Instruments	LM4F120H5QRFIG
23	U8	1	Regualtor, 3.3V, 400mA, LDO	Texas Instruments	TPS73633DRBT
24	Y1	1	Crystal, 32.768KHz Radial Can	Abracon	AB26TRB-32.768KHZ-T

25	Y2 Y5	2	Crystal, 16.00MHz 5.0x3.2mm SMT	NDK	NX5032GA-16.000000MHZ
				Abracon	ABM3-16.000MHZ-B2-T

PCB Do Not Populate List (Shown for information only)

26	C13 C34	2	Capacitor, 0.1uF 16V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
27	D2	1	DIODE, Dual Schottky, SC70, BAS70 Common Cathode	Diodes Inc	BAS70W-05-7-F
28	R17	1	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
29	R24	1	Resistor, 330 ohm, 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
30	R25 R29 R30	3	Resistor, 0 OHM 1/10W 0603 SMD	Panasonic	ERJ-3GEY0R00V
31	U4	1	IC, Single Voltage Supervisor, 5V, DBV	Texas Instruments	TLV803MDBZR

Final Assembly Bill Of Materials

Del		1	OMIT BOM for TIVA EK-TM4C123GXL Launchpad REV C		
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Item Number	Quantity	Part Reference	Value	Mfr. Name	Mfr. Part Number	Description
EK-TM4C1294XL						
1	1	C1	1000pF	Kemet	C1210C102MGRACU	Capacitor, 1000pF, 2kV, 20%, X7R, 1210
2	26	C3, C4, C5, C10, C11, C12, C13, C16, C17, C18, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C40, C41, C42, C43, C46	0.1uF	Taiyo Yuden	EMK105B7104KV-F	Capacitor, 0.1uF 16V, 10% 0402 X7R
3	1	C31	4700pF	AVX	1812GC472KAT1A	Capacitor, 4700pF, 2kV, 10%, X7R, 1812
4	2	C32, C33	3300pF	TDK	C1608X7R1H332K	Capacitor, 3300pF, 50V, 10%, X7R, 0603
5	2	C6, C14	1uF	Johanson Dielectrics Inc	100R07X105KV4T	Capacitor, 1uF, X5R, 10V, Low ESR, 0402
6	3	C7, C15, C20	2.2uF	Murata	GRM188R61C225KE15D	Capacitor, 2.2uF, 16V, 10%, 0603, X5R
7	6	C8, C9, C44, C45, C47, C48	12pF	Murata	GRM1555C1H120J201D	Capacitor, 12pF, 50V 5%, 0402, COG
8	5	D0, D1, D2, D3, D4	LED	Everlight	19-217/G7C-AL1M2B/3T	Green LED 0603
9	7	J1, J2, J3, J4, J5, J6, J7	Jumper	3M	969102-0000-DA	Jumper, 0.100, Gold, Black, Open
10	1	JP1	Header 2x3	FCI	67996-206HLF	Header, 2x3, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate, gold
11	2	JP2, JP3	Header 1x2	3M	961102-6404-AR	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate
				FCI	68001-102HLF	
				Anyone	1x2-head	
12	2	JP4, JP5	Header 2x2	FCI	67997-104HLF	Header, 2x2, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate
				4UCON	00998	
13	8	R1, R2, R3, R4, R5, R29, R35, R44	10K	Yageo	RC0402FR-0710KL	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film
14	3	R17, R26, R36	100K	Rohm	MCR01MRTJ104	100k 5% 0402 resistor smd
15	2	R18, R51	100 ohm	Rohm	MCR1MRTJ101	Resistor 0402 100 ohm 5%
16	4	R23, R21, R22, R24	49.9 ohm	Rohm	MCR01MRTF49R9	Resistor 49.9 ohm 0402. 1 %
17	1	R25	4.87K	Rohm	MCR01MRTF4871	Resistor 4.87k 1% 0402 smd
18	1	R28	5.6K	Panasonic	ERJ-2GEJ562X	Resistor, 5.6k ohm, 1/10W, 5%, 0402
19	4	R32, R43, R45, R46	75 ohm	Rohm	MCR01MRTJ750	resistor 75 ohm 0402 5%
20	2	R34, R52	1 M	Panasonic	ERJ-3GEYJ105V	Resistor, 1M OHM 1/10W 5% 0603 SMD
21	1	R38	51 ohm	Panasonic	ERJ-2GEJ510X	Resistor, 51 ohm, 1/10W, 5%, 0402
22	1	R42	1 M	Rohm	MCR01MRTF1004	Resistor, 1M Ohm 1/10W, 5%, 0402
23	1	R47	1 M	Panasonic	ERJ-8GEYJ105V	RES 1M OHM 5% 1206 TF
24	2	R49, R50	2.0K	Panasonic	ERJ-3GEYJ202V	Resistor, 2.0k ohm, 1/10W, 5%, 0402
25	12	R6, R7, R8, R10, R11, R15, R16, R19, R20, R39, R40, R41	0 ohm	Panasonic	ERJ-2GE0R00X	Resistor, 0 ohm, 1/10W, 5%, 0402
26	5	R9, R27, R30, R31, R33	330 ohm	Yageo	RC0402FR-07330RL	Resistor, 330 ohm, 1/10W, 5%, 0402
27	4	RESET, USR_SW1, USR_SW2, WAKE	Switch	Omron	B3S-1000	Switch, Tact 6mm SMT, 160gf
28	1	U1	TM4C1294	Texas Instruments	TM4C1294NCPDT	Tiva, MCU TM4C1294NCPDT 128 QFP with Ethernet MAC + PHY
29	1	U10	Ethernet transformer	Pulse Electronics	HX1198FNL	Transformer, ethernet, 1 to 1. SOIC 16
30	1	U13	Diode	Semtech	SLVU2.8-4.TBT	Diode, 8 chan, +/-15KV, ESD Protection Array, SO-8
31	1	U14	Ethernet connector	TE Connectivity	1-406541-5	Connector, RJ45 NO MAG, shielded THRU HOLE
32	2	U2, U3	TPD4S012	Texas Instruments	TPD4S012DRYR	IC 4CH ESD SOLUTION W/CLAMP 6SON
33	1	U20	TM4C123	Texas Instruments	TM4C123GH6PMI	Stellaris TIVA MCU TM4C123GH6PMI
34	1	U22	USB connector	FCI	10118194-0001LF	USB Micro B receptical right angle with guides
35	1	U4	TPS2052	Texas Instruments	TPS2052BDRBR	Fault protected power switch, dual channel, 8-SON
36	1	U5	TPS73733	Texas Instruments	TPS73733DRV	3.3V LDO TI TPS73733DRV fixed out 5V in
37	1	U6	Header 2x5	Samtec	SHF-105-01-S-D-SM	Header 2x5, 0.050, SM, Vertical Shrouded
				Don Connex Electronics	C44-10BSA1-G	
38	1	U7	USB connector	Hirose	ZX62D-AB-5P8	USB Micro AB receptacle. Right angle with through guides
39	4	X6, X7, X8, X9	Header 2x10	Samtec	SSW-110-23-S-D	Header, 2x10, T-Hole Vertical unshrouded stacking
40	1	Y1	Crystal	NDK	nx3225ga-25.000m-std-crg-2	Crystal 25 Mhz 3.2 x 2.5 mm

41	1	Y2	Crystal	NDK	NX3225GA-16.000M-STD-CRG-2	crystal 16 mhz 3.2x2.5 mm 4 pin
42	1	Y3	Crystal	Citizen Finetech Miyota	CMR200T-32.768KDZY-UT	Crystal, 32.768KHz Radial Can
43	1	C2	0.1uF	Taiyo Yuden	EMK105B7104KV-F	Capacitor, 0.1uF 16V, 10% 0402 X7R
44	3	H1, H4, H6	Screw	McMaster	90077A112	Screw, #4 x 0.625" Pan Head, Sheet Metal, Phillips/Slotted (for fan)
45	3	R12, R13, R14	5.6K	Panasonic	ERJ-2GEJ562X	Resistor, 5.6k ohm, 1/10W, 5%, 0402
46	1	R48	52.3K	Rohm	TRR01MZPF5232	Resistor 0402 1% 52.3k
47	17	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17	test pin	Keystone	5000	Terminal, Test Point Miniature Loop, Red, T-Hole
48	1	X1	Header 2x7	FCI	67997-114HLF	Header, 2x7, 0.100, T-Hole, Vertical, Unshrouded, 0.230 Mate
49	1	X11A	Connector	Samtec	TSW-149-09-F-S-RE	Valvano style bread board connect. Right Angle extended, 1 x 49 0.100 pitch.
50	1	X11B	Connector	Samtec	TSW-149-08-F-S-RA	valvano style breadboard header.

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