

Bill of Materials from SM2000-A.sch, 455 parts, grouped by values, as of 5/5/2016 9:42:22 AM

Part	Qty	DEFINITION	MANUFACTURER	MFG_NUMBER	DISTRIBUTOR	DIST_NUMBER	GENERIC	ROHS	COST100	EXT COST
C1, C3, C4, C8, C11, C12, C14, C20, C24, C30, C33, C35, C37, C41, C45, C48, C49, C56, C57, C58, C59, C60, C61, C63, C65, C68, C70, C71, C84, C90, C94, C104, C108, C111, C113, C114, C117, C118, C119, C120, C121, C125, C127, C133, C134, C137, C138, C144	48	CAP CER 0.1UF 25V X7R 0805	MURATA	GRM21BR71E104KA01L	DIGIKEY	490-1673-1-ND	Y	Y	0.020	0.960
C2, C5, C9, C15, C25	5	CAP CER 10000PF 25V X7R 0805	MURATA	GRM216R71E103KA01D	DIGIKEY	490-12748-1-ND	Y	Y	0.032	0.160
C6, C7, C16, C77	4	CAP CER 1UF 25V X7R 0805	MURATA	GRM21BR71E105KA99K	DIGIKEY	490-6483-1-ND	Y	Y	0.053	0.213
C10, C27, C40, C72, C73, C74, C75, C76, C78, C81, C91, C96, C97, C98, C100, C102, C103, C106, C131, C132, C135	21	CAP CER 1000PF 25V X7R	MURATA	GRM216R71E102KA01D	DIGIKEY	490-11555-1-ND	Y	Y	0.029	0.609
C13, C139, C140, C141, C142, C143	6	PART VALUE TO BE DETERMINED					Y	Y	0.000	0.000
C17, C18, C38	3	CAP CER 2.2UF 25V X7R 0805	MURATA	GRM21BR71E225KA73L	DIGIKEY	490-3331-1-ND	Y	Y	0.265	0.795
C19, C21, C51	3	CAP CER 20PF 50V NPO 0805	MURATA	GQM2195C1H200JB01D	DIGIKEY	490-3607-1-ND	Y	Y	0.364	1.092
C22	1	CAP CER 4.7UF 25V X7R 0805	MURATA	GRM21BR71E475KA73L	DIGIKEY	490-9962-1-ND	Y	Y	0.210	0.210
C23	1	CAP CER 0.33UF 25V X7R 0805	MURATA	GRM21BR71E334KA01L	DIGIKEY	490-1677-1-ND	Y	Y	0.109	0.109
C26, C29, C36, C42, C43, C44, C54	7	CAP CER 22UF 25V X7R 20% 1812	TDK	C4532X7R1E226M	DIGIKEY	445-1607-1-ND	YES	YES	1.950	13.650
C28	1	CAP CER 0.22UF 25V X7R 0805	MURATA	GRM219R71E224KA01D	DIGIKEY	490-1675-1-ND	Y	Y	0.084	0.084
C31, C32	2	CAP ALUM 100UF 6.3V 20% SMD	NICHICON	UWX0J101MCL1GB	DIGIKEY	493-2088-1-ND	Y	Y	0.114	0.228
C34, C52, C55	3	CAP ALUM 220UF 25V 20% SMD	UNITED CHEMI-CON	EMVY250ADA221MHA0G	DIGIKEY	565-2463-1-ND	N	Y	0.412	1.236
C39	1	CAP CER 100PF 50V NPO 0805	MURATA	GRM2165C1H101JA01D	DIGIKEY	490-1615-1-ND	Y	Y	0.039	0.039
C46	1	CAP CER 0.47UF 25V X7R 0805	MURATA	GRM21BR71E474KA01L	DIGIKEY	490-9753-1-ND	Y	Y	0.154	0.154
C47, C88, C116	3	CAP CER 8200PF 25V X7R 0805	AVX	08053C822KAT4A	DIGIKEY	08053C822KAT4A-ND	Y	Y	0.000	0.000
C50	1	CAP CER 3900PF 25V X7R 0805	AVX	08053C392MAT2A	DIGIKEY	08053C392MAT2A-ND	Y	Y	0.000	0.000
C53	1	CAP CER 0.047UF 25V X7R	MURATA	GRM219R71E473KA01D	DIGIKEY	490-11583-1-ND	Y	Y	0.054	0.054
C62, C69, C80, C89	4	CAP CER 3.3PF 25V NPO 0805	AVX	08053A3R3JAT2A	DIGIKEY	08053A3R3JAT2A-ND	Y	Y	0.000	0.000
C64, C67, C82, C86	4	CAP CER 12PF 25V NPO 0805	AVX	08053A120KAT2A	DIGIKEY	08053A120KAT2A-ND	Y	Y	0.000	0.000
C66, C85	2	CAP CER 0.50PF 25V NPO 0805	AVX	08053A0R5CAT4A	DIGIKEY	08053A0R5CAT4A-ND	Y	Y	0.000	0.000
C79, C92, C93, C95	4	CAP CER 22PF 50V 5% NPO 0805	YAGEO	CC0805JRNPO9BN220	DIGIKEY	311-1103-1-ND	Y	Y	0.047	0.187
C83	1	CAP TRIM 2-10PF 250V THRU HOLE	VISHAY BC	BFC280851109	DIGIKEY	BFC280851109-ND	N	Y	2.270	2.270
C87, C115	2	CAP CER 5.6PF 50V NPO 0805	MURATA	GRM2165C1H5R6CD01D	DIGIKEY	GRM2165C1H5R6CD01D-ND	Y	Y	0.000	0.000
C99	1	CAP CER 1000PF 25V X7R							0.000	0.000
C101	1	CAP CER 1PF 50V NPO 0805	SAMSUNG	CL21C010BBANNNC	DIGIKEY	1276-1766-1-ND	Y	Y	0.011	0.011
C105, C110	2	CAP CER 33PF 50V NPO 0805	SAMSUNG	CL21C330JBANNNC	DIGIKEY	1276-1105-1-ND	Y	Y	0.022	0.044
C107	1	CAP CER 47PF 50V NPO 0805	SAMSUNG	CL21C470JBANNNC	DIGIKEY	1276-1156-1-ND	Y	Y	0.022	0.022
C109	1	CAP ALUM 100UF 20% 25V SMD	UNITED CHEMI-CON	EMVA250ADA101MF80G	DIGIKEY	565-2105-1-ND	N	Y	0.250	0.250
C112	1	CAP CER 39PF 50V NPO 0805	SAMSUNG	CL21C390JBANNNC	DIGIKEY	1276-1769-1-ND	Y	Y	0.027	0.027
C122, C126, C129, C130, C136	5	CAP ALUM 10UF 20% 25V SMD	NICHICON	UWJ1E100MCL1GB	DIGIKEY	493-9791-1-ND	N	Y	0.118	0.590
C123	1	CAP CER 27PF 50V NPO 0805	SAMSUNG	CL21C270JBANNNC	DIGIKEY	1276-1285-1-ND	Y	Y	0.027	0.027
C124, C128	2	CAP CER 150PF 50V NPO 0805	SAMSUNG	CL21C151JBANNNC	DIGIKEY	1276-1828-1-ND	Y	Y	0.025	0.050
CN1, CN3	2	CONN HEADER 3POS .100 VERT GOLD	MOLEX	22-10-2031	DIGIKEY	WM2723-ND	N	Y	0.495	0.990
CN2, CN6, CN7	3	3.5mm STEREO, SWITCHED SMT CONN.	JOSEN	ST-3509	JOSEN	ST-3509	N	Y	0.200	0.600
CN4	1	MINIB USB CONN, SMT	JOSEN	JS-MU3-002	JOSEN	JS-MU3-002	N	Y	0.500	0.500
CN5	1	DC POWER CONN, FOR 2.1 X 5.5MM	YQLXDZ	DS-0518	YQLXDZ	DS-0518	N	Y	0.300	0.300
D1, D2	2	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.000
D3	1	PTVS20VP1UP	NXP	PTVS20VP1UP,115	DIGIKEY	568-5319-1-ND	Y	Y	0.321	0.321
D4	1	DIODE SCHOTTKY 30V 3A 5MB	DIODES INC.	B330B-13-F	DIGIKEY	B330B-FDICT-ND	Y	Y	0.318	0.318
D5	1	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.000
D6, D7, D8, D9	4	DIODE RF PIN 150V 100MA SC79	INFINEON	BAR 64-02V H6327	DIGIKEY	BAR 64-02V H6327CT-ND	Y	Y	0.187	0.748
D10	1	DIODE ARRAY GP 35V 100MA SOT23	INFINEON	BAT 18-04 E6327	DIGIKEY	BAT 18-04 E6327CT-ND	Y	Y	0.265	0.265
FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16, FB17, FB18, FB19, FB20	20	FERRITE 500MA 600 OHM 0805 SMD	LAIRD	HZ0805E601R-10	DIGIKEY	240-2399-1-ND	N	Y	0.038	0.762
J1, J3, J5	3	CONN HEADER 2POS .100 VERT GOLD	MOLEX	22-28-4023	DIGIKEY	WM6502-ND	Y	Y	0.190	0.570
J2	1	CONN HEADER 7POS .100 VERT GOLD	MOLEX	22284073	DIGIKEY	WM50016-07-ND	Y	Y	0.425	0.425
J4	1	CONN HEADER XH TOP 2POS 2.5MM	JST	B2B-XH-AM	DIGIKEY	455-2273-ND	Y	Y	0.092	0.092
J6, J7, J8, J9, J10, J11, J12, J13, J14	9	CONN HEADER 4POS .100 STR 30AU	FCI	67996-104HLF	DIGIKEY	609-3201-ND	Y	Y	1.078	1.602
L1	1	INDUCTOR POWER 4.2UH 2.5A SMD	BOURNS	SRR5028-4R2Y	DIGIKEY	SRR5028-4R2YCT-ND	N	N	0.456	0.456
L2, L3, L5, L8	4	68nH	ROWETEL						0.000	0.000
L4, L14, L16	3	57nH	ROWETEL						0.000	0.000
L6	1	168nH	ROWETEL						0.000	0.000
L9	1	54nH	ROWETEL						0.000	0.000
L10	1	53nH	ROWETEL						0.000	0.000
L11	1	220nH	ROWETEL						0.000	0.000
L12, L13, L15	3	RF CHOKE	TBD		TBD			Y	0.000	0.000
L17	1	FIXED IND 5.6UH 15MA 600 MOHM	TDK	445-1056-1-ND	DIGIKEY	445-1056-1-ND	N	Y	0.129	0.129
L18	1	FIXED IND 10UH 10MA 1.7 OHM SMD	TDK	MLF1608E100KTD00	DIGIKEY	445-1025-1-ND	N	Y	0.119	0.119
L19	1	FIXED IND 5.6UH 15MA 600 MOHM	TDK	MLF2012E5R6KT000	DIGIKEY	445-1056-1-ND	N	Y	0.129	0.129
L20	1	FIXED IND 15UH 250MA 950 MOHM	TDK	MLZ2012M150WT000	DIGIKEY	445-6397-1-ND	N	Y	0.088	0.088
LED1, LED3, LED7	3	LED GREEN CLEAR RT ANG 0805	LITE-ON	LTST-S220KGKT	DIGIKEY	160-1468-1-ND	N	Y	0.135	0.405

LED2, LED4	2	LED SUPR RED CLR RT ANG 0805	LITE-ON	LTST-S220KRKT	DIGIKEY	160-1469-1-ND	N	Y	0.145	0.290
LED5, LED6, LED8, LED10	4	LED GREEN DIFFUSED 0603 SMD	LUMEX	SML-LX0603GW-TR	DIGIKEY	67-1549-1-ND	N	Y	0.169	0.676
LED9	1	LED RED DIFFUSED 0603 SMD	LUMEX	SML-LX0603SRW-TR	DIGIKEY	67-1551-1-ND	N	Y	0.169	0.169
LED11	1	LED YELLOW DIFFUSED 0603 SMD	LUMEX	SML-LX0603YW-TR	DIGIKEY	67-1550-1-ND	N	Y	0.162	0.162
MIC1	1	MIC COND ANALOG OMNI -44DB	CUI	CMA-4544PF-W	DIGIKEY	102-1721-ND	N	Y	0.569	0.569
P6, P7, P8, P9	4	TEST PAD, .050	NA	NA	NA	NA	NA	NA	0.000	0.000
PAD1, PAD2, PAD3, PAD4, PAD5, PAD6, PAD7	7	NOT A PART							0.000	0.000
PCB1	1	SM2000-A PCB	PCB UNIVERSE	SM2000-A	NA	NA	N	Y	11.320	11.320
Q1, Q3, Q5, Q6, Q7, Q8, Q9, Q10, Q14, Q15, Q16	11	TRANSISTOR GP NPN AMP SOT-23	FAIRCHILD SEMI	MMBT3904	DIGIKEY	MMBT3904FSCT-ND	YES	YES	0.043	0.473
Q2, Q4	2	MOSFET P-CH 30V 2A SOT-23	STM	STR2P3LLH6	DIGIKEY	497-15520-1-ND	Y	Y	0.216	0.432
Q11	1	TRANSISTOR RF NPN 15V SOT-23	INFINEON	BFR 92P E6327	DIGIKEY	BFR92PE6327INCT-ND	Y	Y	0.212	0.212
Q12	1	TRANSISTOR RF NPN 15V SOT-89	INFINEON	BFQ 19S E6327	DIGIKEY	BFQ 19S E6327CT-ND	Y	Y	0.409	0.409
Q13	1	RD01MUS2 RoHS Compliance, Silicon MOSFET P	MITSUBISHI	RD01MUS2	RF PARTS	RD01MUS2	N	Y	0.800	0.800
Q17	1	TRANSISTOR GP PNP AMP SOT-23	FAIRCHILD	MMBT3906	DIGIKEY	MMBT3906FSCT-ND	Y	Y	0.100	0.100
R1, R2, R3, R4, R55, R63, R74	7	RES SMD 680 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805680RFKEA	DIGIKEY	541-680CCT-ND	Y	Y	0.028	0.196
R5, R6, R21, R24	4	RES SMD 22 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805220RFKEA	DIGIKEY	541-22.0CCT-ND	Y	Y	0.028	0.112
R7, R8, R9, R10, R28, R29, R89	7	RES SMD 4.7K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08054K70FKEA	DIGIKEY	541-4.70KCCT-ND	Y	Y	0.028	0.196
R11, R50, R57, R87, R99, R100, R106, R107, R113	9	RES 1.00K OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW08051K00FKEA	DIGIKEY	541-1.00KCCT-ND	Y	Y	0.033	0.297
R12, R62, R75	3	RES SMD 47 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805470RFKEA	DIGIKEY	541-47.0CCT-ND	Y	Y	0.028	0.084
R13, R14, R16, R26, R41, R96, R97, R98	8	RES 0.0 OHM 1/8W 0805 SMD	VISHAY/DALE	CRCW0805000Z0EA	DIGIKEY	541-0.0ACT-ND	Y	Y	0.030	0.240
R15	1	RES SMD 220 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805220RFKEA	DIGIKEY	541-220CCT-ND	Y	Y	0.028	0.028
R17, R18, R20, R22, R27, R43, R46, R54, R59, R76, R80, R81, R83, R95, R121, R122	16	RES 10.0K OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW080510K0FKEA	DIGIKEY	541-10.0KCCT-ND	Y	Y	0.028	0.448
R19, R64, R73	3	RES SMD 470 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805470RFKEA	DIGIKEY	541-470CCT-ND	Y	Y	0.028	0.084
R23, R33, R35, R36, R37, R38, R47, R56, R60, R67, R70, R77, R90, R112	14	RES 2.20K OHM 1/8W 1% 0805 SMD	PANASONIC	ERJ-6ENF2201V	DIGIKEY	P2.20KCCT-ND	Y	Y	0.021	0.294
R25	1	RES SMD 47K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080547K0FKEA	DIGIKEY	541-47.0KCCT-ND	Y	Y	0.028	0.028
R30, R42	2	RES SMD 1.5K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08051K50FKEA	DIGIKEY	541-1.50KCCT-ND	Y	Y	0.028	0.056
R31, R32, R114, R119	4	RES 100 OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW0805100RFKEA	DIGIKEY	541-100CCT-ND	Y	Y	0.033	0.132
R34, R40, R44, R65, R71, R93	6	RES SMD 330 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805330RFKEA	DIGIKEY	541-330CCT-ND	Y	Y	0.028	0.168
R39	1	TRIMMER 500K OHM 0.5W SMD	BOURNS	3361P-1-504GLF	DIGIKEY	3361P-1-504GLFCT-ND	Y	Y	0.969	0.969
R45, R52	2	RES SMD 22.1K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080522K1FKEA	DIGIKEY	541-22.1KCCT-ND	Y	Y	0.028	0.056
R48	1	POT 100K OHM 9MM SQ RTANG PLAST	BOURNS	3310C-001-104L	DIGIKEY	3310C-001-104L-ND	N	Y	1.920	1.920
R49	1	RES SMD 4.7 OHM 5% 1/2W 1206	VISHAY DALE	CRCW12064R70JNEAHP	DIGIKEY	541-4.7UACT-ND	Y	Y	0.128	0.128
R51	1	RES SMD 124K OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805124KFKEA	DIGIKEY	541-124KCCT-ND	Y	Y	0.028	0.028
R53, R58, R61, R85, R91, R108, R115, R120	8	RES SMD 10 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080510R0FKEA	DIGIKEY	541-10.0CCT-ND	Y	Y	0.028	0.224
R66, R72	2	RES SMD 180 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805180RFKEA	DIGIKEY	541-180CCT-ND	Y	Y	0.028	0.056
R68, R69	2	RES SMD 15 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080515R0FKEA	DIGIKEY	541-15.0CCT-ND	Y	Y	0.028	0.056
R78, R79, R111	3	RES SMD 18K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080518K0FKEA	DIGIKEY	541-18.0KCCT-ND	Y	Y	0.028	0.084
R82, R86, R105	3	RES SMD 3K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08053K00FKEA	DIGIKEY	541-3.00KCCT-ND	Y	Y	0.028	0.084
R84, R101, R102, R116	4	RES SMD 150 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805150RFKEA	DIGIKEY	541-150CCT-ND	Y	Y	0.028	0.112
R88, R109	2	RES SMD 49.9 OHM 1% 1/8W 0805	VISHAY/DALE	CRCW0805499RFKEA	DIGIKEY	541-49.9CCT-ND	YES	YES	0.028	0.056
R92	1	RES SMD 47 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805470RFKEA	DIGIKEY	541-47.0CCT-ND	Y	Y	0.028	0.028
R94	1	RES SMD 68K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080568K0FKEA	DIGIKEY	541-68.0KCCT-ND	Y	Y	0.028	0.028
R103	1	RES SMD 33K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080533K0FKEA	DIGIKEY	541-33.0KCCT-ND	Y	Y	0.028	0.028
R104	1	RES SMD 15K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080515K0FKEA	DIGIKEY	541-15.0KCCT-ND	Y	Y	0.028	0.028
R110	1	RES SMD 39K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080539K0FKEA	DIGIKEY	541-39.0KCCT-ND	Y	Y	0.028	0.028
R117, R118	2	RES SMD 3.3K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08053K30FKEA	DIGIKEY	541-3.30KCCT-ND	Y	Y	0.028	0.056
R123, R124, R125, R126, R127	5	PART TO BE DETERMINED					Y	Y	0.000	0.000
S1, S2, S3, S4, S5, S6, S8, S9, S10, S11, S12, S14, S15, S16, S17, S18, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S35, S36, S37, S38, S39, S40, S43	35	NOT A PART							0.000	0.000
SH1, SH2, SH3	3	SHUNT LP 2 POS SN	TYCO AMP	1-382811-6	DIGIKEY	A26231-ND	Y	Y	0.210	0.630
SP1, SP2, SP3, SP4, SP5, SP6, SP7, SP8, SP9	9	SCOPE TEST PAD	NA	NA	NA	NA	NA	NA	0.000	0.000
SW1	1	4.5X4.5mm TACT SWITCH SMT	YQLXDZ	TS-02B	YQLXDZ.COM	TS-02B	N	Y	0.050	0.050
SW2	1	SWITCH PUSH DPDT 0.3A 30V	E-SWITCH	LC2259OANP	DIGIKEY	LC2259OANP-ND	Y	Y	0.620	0.620
SW3, SW4	2	4.5X4.5mm TACTILE SWIRCH RA TH	YQLXDZ	TS-026	YQLXDZ	TS-026	N	Y	0.050	0.100
SW5	1	SWITCH PUSH DPDT 0.3A 30V	E-SWITCH	LC2259EENP	DIGIKEY	LC2259EENP-ND	Y	Y	0.620	0.620
U1	1	IC MCU 32BIT 1MB FLASH 100LQFP	STM	STM32F405VGT6	DIGIKEY	497-11910-ND	N	Y	9.364	9.364
U2	1	IC PWR SWITCH 1CH 500MA SOT23-5	STM	STMPS2141STR	DIGIKEY	497-6933-1-ND	N	Y	0.480	0.480
U3	1	I C EMI FILTR/ESD PROT 11FLIPCHIP	STM	EMIF02-USB03F2	DIGIKEY	497-13521-1-ND	N	Y	0.525	0.525
U4	1	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.000
U5	1	IC REG LDO 9V 0.5A DPAK	STM	L78M09CDT-TR	DIGIKEY	497-1208-1-ND	Y	Y	0.347	0.347
U6, U8	2	IC REG LDO 3.3V 1A SOT23	STM	LD1117AS33TR	DIGIKEY	497-1228-1-ND	Y	Y	0.445	0.890
U7, U13	2	IC OPAMP GP 1MHZ RRO SOT23-	TI	LMV341IDBVR	DIGIKEY	296-17843-1-ND	N	Y	0.556	1.112
U9	1	IC REG BUCK SYNC ADJ 3A 85OPWR	TI	TPS54329EDDAR	DIGIKEY	296-29856-1-ND	N	Y	1.650	1.650
U10	1	IC AMP AUDIO PWR .325W AB 85OIC	TI	LM386MX-1/NOPB	DIGIKEY	LM386MX-1/NOPBCT-ND	N	Y	0.687	0.687
U11	1	SURFACE MOUNT FREQUENCY MIXER ADE-1	MINI-CIRCUITS		MINI-CIRCUITS		N	Y	0.000	0.000
U12	1	ULTRA LINEAR LOW NOISE AMPLIFIER	MINI-CIRCUITS		MINI-CIRCUITS		N	Y	0.000	0.000
U14	1	IC CLK GENERATOR 200MHZ 10MSOP	SILICON LABS	SI5351A-B-GT	DIGIKEY	336-2399-5-ND	N	Y	0.848	0.848
U15	1	OSC XO 10MHZ-1.4175GHZ LVPECL	SILICON LABS	570AAC000118DG	DIGIKEY	570AAC000118DG-ND	N	Y	10.167	10.167

U16	1	IC MIXER 500MHZ UP CONVRT 8SO	NXP	SA612AD/01,112	DIGIKEY	568-1204-5-ND	Y	Y	1.640	1.640
X1	1	CONN SOCKET SMA R/A DIE CAST PCB	TE Connectivity	5-1814400-1	DIGIKEY	A97593-ND	Y	Y	2.660	2.660
XTAL1	1	8MHz ±30ppm Crystal 18pF 80 Ohm	CTS	405I35D08M00000	DIGIKEY	405I35D08M00000-ND	Y	Y	0.800	0.800
XTAL2	1	25MHz ±30ppm Crystal 13pF 50 Ohm	CTS	405C35B25M00000	DIGIKEY	CTX652CT-ND	Y	Y	0.780	0.780
XTAL3, XTAL4	2	MONO CRYST FILTER 25KHZ 4P 2PC	ECS	ECS-10.7-15B	DIGIKEY	X704-ND	N	Y	3.900	7.800
TOTAL COST USD									95.604	