

Bill of Materials from SM2000.sch, 398 parts, grouped by values, as of 3/11/2016 2:41:25 PM

Part
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
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PCB1
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Q2, Q4
Q11
Q12
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R23, R33, R35, R36, R37, R38, R47, R56, R60, R67, R70, R77, R90, R112
R25
R30, R42

Qty	DEFINITION	MANUFACTURER	MFG_NUMBER	DISTRIBUTOR	DIST_NUMBER	GENERIC	ROHS	COST100	EXT COST
47	CAP CER 0.1UF 25V X7R 0805	MURATA	GRM218R71E104KA01L	DIGIKEY	490-1673-1-ND	Y	Y	0.020	0.94
5	CAP CER 10000PF 25V X7R 0805	MURATA	GRM216R71E103KA01D	DIGIKEY	490-12748-1-ND	Y	Y	0.032	0.16
4	CAP CER 1UF 25V X7R 0805	MURATA	GRM218R71E105KA99K	DIGIKEY	490-6483-1-ND	Y	Y	0.053	0.21
22	CAP CER 1000PF 25V X7R	MURATA	GRM216R71E102KA01D	DIGIKEY	490-11555-1-ND	Y	Y	0.029	0.63
3	CAP CER 2.2UF 25V X7R 0805	MURATA	GRM218R71E225KA73L	DIGIKEY	490-3331-1-ND	Y	Y	0.265	0.79
3	CAP CER 20PF 50V NPO 0805	MURATA	GQM2195C1H200JB01D	DIGIKEY	490-3607-1-ND	Y	Y	0.364	1.09
1	CAP CER 4.7UF 25V X7R 0805	MURATA	GRM218R71E475KA73L	DIGIKEY	490-9962-1-ND	Y	Y	0.210	0.21
1	CAP CER 0.33UF 25V X7R 0805	MURATA	GRM218R71E334KA01L	DIGIKEY	490-1677-1-ND	Y	Y	0.109	0.10
7	CAP CER 22UF 25V X7R 20% 1812	TDK	C4532X7R1E226M	DIGIKEY	445-1607-1-ND	YES	YES	1.950	13.65
1	CAP CER 0.22UF 25V X7R 0805	MURATA	GRM219R71E224KA01D	DIGIKEY	490-1675-1-ND	Y	Y	0.084	0.08
2	CAP ALUM 100UF 6.3V 20% SMD	NICHICON	UWXX0J101MCL1GB	DIGIKEY	493-2088-1-ND	Y	Y	0.114	0.22
3	CAP ALUM 220UF 25V 20% SMD	UNITED CHEMI-CON	EMVY250ADA221MHA0G	DIGIKEY	565-2463-1-ND	N	Y	0.412	1.23
1	CAP CER 100PF 50V NPO 0805	MURATA	GRM2165C1H101JA01D	DIGIKEY	490-1615-1-ND	Y	Y	0.039	0.03
1	CAP CER 0.47UF 25V X7R 0805	MURATA	GRM218R71E474KA01L	DIGIKEY	490-9753-1-ND	Y	Y	0.154	0.15
1	CAP CER 8200PF 25V X7R 0805	AVX	08053C822KAT4A	DIGIKEY	08053C822KAT4A-ND	Y	Y	0.000	0.00
1	CAP CER 3900PF 25V X7R 0805	AVX	08053C392MAT2A	DIGIKEY	08053C392MAT2A-ND	Y	Y	0.000	0.00
1	CAP CER 0.047UF 25V X7R	MURATA	GRM219R71E473KA01D	DIGIKEY	490-11583-1-ND	Y	Y	0.054	0.05
4	CAP CER 3.3PF 25V NPO 0805	AVX	08053A3R3JAT2A	DIGIKEY	08053A3R3JAT2A-ND	Y	Y	0.000	0.00
4	CAP CER 12PF 25V NPO 0805	AVX	08053A120KAT2A	DIGIKEY	08053A120KAT2A-ND	Y	Y	0.000	0.00
2	CAP CER 0.50PF 25V NPO 0805	AVX	08053A0R5CAT4A	DIGIKEY	08053A0R5CAT4A-ND	Y	Y	0.000	0.00
4	CAP CER 22PF 50V 5% NPO 0805	YAGEO	CC0805JRNPO9BN220	DIGIKEY	311-1103-1-ND	Y	Y	0.047	0.18
1	CAP TRIM 2-10PF 250V THRU HOLE	VISHAY BC	BFC280851109	DIGIKEY	BFC280851109-ND	N	Y	2.270	2.27
2	CAP CER 5.6PF 50V NPO 0805	MURATA	GRM2165C1H5R6CD01D	DIGIKEY	GRM2165C1H5R6CD01D-ND	Y	Y	0.000	0.00
1	CAP CER 1000PF 25V X7R							0.000	0.00
1	CAP CER 1PF 50V NPO 0805	SAMSUNG	CL21C010BBANNNC	DIGIKEY	1276-1766-1-ND	Y	Y	0.011	0.01
2	CAP CER 33PF 50V NPO 0805	SAMSUNG	CL21C330JBANNNC	DIGIKEY	1276-1105-1-ND	Y	Y	0.022	0.04
1	CAP CER 47PF 50V NPO 0805	SAMSUNG	CL21C470JBANNNC	DIGIKEY	1276-1156-1-ND	Y	Y	0.022	0.02
1	CAP ALUM 100UF 20% 25V SMD	UNITED CHEMI-CON	EMVA250ADA101MF80G	DIGIKEY	565-2105-1-ND	N	Y	0.250	0.25
1	CAP CER 39PF 50V NPO 0805	SAMSUNG	CL21C390JBANNNC	DIGIKEY	1276-1769-1-ND	Y	Y	0.027	0.02
5	CAP ALUM 10UF 20% 25V SMD	NICHICON	UWJ1E100MCL1GB	DIGIKEY	493-9791-1-ND	N	Y	0.118	0.59
1	CAP CER 27PF 50V NPO 0805	SAMSUNG	CL21C270JBANNNC	DIGIKEY	1276-1285-1-ND	Y	Y	0.027	0.02
2	CAP CER 150PF 50V NPO 0805	SAMSUNG	CL21C151JBANNNC	DIGIKEY	1276-1828-1-ND	Y	Y	0.025	0.05
2	CONN HEADER 3POS .100 VERT GOLD	MOLEX	22-10-2031	DIGIKEY	WM2723-ND	N	Y	0.495	0.99
3	3.5mm STEREO, SWITCHED SMT CONN.	JOSEN	ST-3509	JOSEN	ST-3509	N	Y	0.200	0.60
1	MINIB USB CONN, SMT	JOSEN	JS-MU3-002	JOSEN	JS-MU3-002	N	Y	0.500	0.50
1	DC POWER CONN, FOR 2.1 X 5.5MM	YQLXDZ	DS-0518	YQLXDZ	DS-0518	N	Y	0.300	0.30
2	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.00
1	PTVS20VP1UP	NXP	PTVS20VP1UP,115	DIGIKEY	568-5319-1-ND	Y	Y	0.321	0.32
1	DIODE SCHOTTKY 30V 3A SMB	DIODES INC.	B330B-13-F	DIGIKEY	B330B-FDICT-ND	Y	Y	0.318	0.31
1	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.00
4	DIODE RF PIN 150V 100MA SC79	INFINEON	BAR 64-02V H6327	DIGIKEY	BAR 64-02V H6327CT-ND	Y	Y	0.187	0.74
1	DIODE ARRAY GP 35V 100MA SOT23	INFINEON	BAT 18-04 E6327	DIGIKEY	BAT 18-04 E6327CT-ND	Y	Y	0.265	0.26
20	FERRITE 500MA 600 OHM 0805 SMD	IAIRD	HZ0805E601R-10	DIGIKEY	240-2399-1-ND	N	Y	0.038	0.76
3	CONN HEADER 2POS .100 VERT GOLD	MOLEX	22-28-4023	DIGIKEY	WM6502-ND	Y	Y	0.190	0.57
1	CONN HEADER 7POS .100 VERT GOLD	MOLEX	22284073	DIGIKEY	WM50016-07-ND	Y	Y	0.425	0.42
1	CONN HEADER XH TOP 2POS 2.5MM	JST	B2B-XH-AM	DIGIKEY	455-2273-ND	Y	Y	0.092	0.09
9	CONN HEADER 4POS .100 STR 30AU	FCI	67996-104HLF	DIGIKEY	609-3201-ND	Y	Y	0.178	1.60
1	INDUCTOR POWER 4.2UH 2.5A SMD	BOURNS	SRR5028-4R2Y	DIGIKEY	SRR5028-4R2YCT-ND	N	N	0.456	0.45
4	68nH	ROEWTEL						0.000	0.00
3	57nH	ROWETEL						0.000	0.00
1	168nH	ROWETEL						0.000	0.00
1	54nH	ROWETEL						0.000	0.00
1	53nH	ROWETEL						0.000	0.00
1	220nH	ROWETEL						0.000	0.00
3	RF CHOKE	TBD		TBD			Y	0.000	0.00
1	FIXED IND 5.6UH 15MA 600 MOHM	TDK	445-1056-1-ND	DIGIKEY	445-1056-1-ND	N	Y	0.129	0.12
1	FIXED IND 10UH 10MA 1.7 OHM SMD	TDK	MLF1608E100KTD00	DIGIKEY	445-1025-1-ND	N	Y	0.119	0.11
1	FIXED IND 5.6UH 15MA 600 MOHM	TDK	MLF2012E5R6KT000	DIGIKEY	445-1056-1-ND	N	Y	0.129	0.12
1	FIXED IND 15UH 250MA 950 MOHM	TDK	MLZ2012M150WTO00	DIGIKEY	445-6397-1-ND	N	Y	0.088	0.08
3	LED GREEN CLEAR RT ANG 0805	LITE-ON	LTST-S220KGKT	DIGIKEY	160-1468-1-ND	N	Y	0.135	0.40
2	LED SUPR RED CLR RT ANG 0805	LITE-ON	LTST-S220KRKT	DIGIKEY	160-1469-1-ND	N	Y	0.145	0.29
4	LED GREEN DIFFUSED 0603 SMD	LUMEX	SML-LX0603GW-TR	DIGIKEY	67-1549-1-ND	N	Y	0.169	0.67
1	LED RED DIFFUSED 0603 SMD	LUMEX	SML-LX0603SRW-TR	DIGIKEY	67-1551-1-ND	N	Y	0.169	0.16
1	LED YELLOW DIFFUSED 0603 SMD	LUMEX	SML-LX0603YW-TR	DIGIKEY	67-1550-1-ND	N	Y	0.162	0.16
1	MIC COND ANALOG OMNI -44DB	CUI	CMA-4544PF-W	DIGIKEY	102-1721-ND	N	Y	0.569	0.56
4	TEST PAD, .050	NA	NA	NA	NA	NA	NA	0.000	0.00
1	SM2000-A PCB	PCB UNIVERSE	SM2000-A	NA	NA	N	Y	11.320	11.32
11	TRANSISTOR GP NPN AMP SOT-23	FAIRCHILD SEMI	MMBT3904	DIGIKEY	MMBT3904FSCT-ND	YES	YES	0.043	0.47
2	MOSFET P-CH 30V 2A SOT-23	STM	STR2P3LLH6	DIGIKEY	497-15520-1-ND	Y	Y	0.216	0.43
1	TRANSISTOR RF NPN 15V SOT-23	INFINEON	BFR 92P E6327	DIGIKEY	BFR92PE6327INCT-ND	Y	Y	0.212	0.21
1	TRANSISTOR RF NPN 15V SOT-89	INFINEON	BFQ 19S E6327	DIGIKEY	BFQ 19S E6327CT-ND	Y	Y	0.409	0.40
1	Silicon MOSFET Power Transistor 520MHz, 1W	MITSUBISHI	RD01MUS2	RF PARTS		Y	Y	0.800	0.80
1	TRANSISTOR GP PNP AMP SOT-23	FAIRCHILD	MMBT3906	DIGIKEY	MMBT3906FSCT-ND	Y	Y	0.100	0.10
7	RES SMD 680 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805680RFKEA	DIGIKEY	541-680CCT-ND	Y	Y	0.028	0.19
4	RES SMD 22 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080522R0FKEA	DIGIKEY	541-22.0CCT-ND	Y	Y	0.028	0.11
7	RES SMD 4.7K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08054K70FKEA	DIGIKEY	541-4.70KCCT-ND	Y	Y	0.028	0.19
9	RES 1.00K OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW08051K00FKEA	DIGIKEY	541-1.00KCCT-ND	Y	Y	0.033	0.29
3	RES SMD 47 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080547R0FKEA	DIGIKEY	541-47.0CCT-ND	Y	Y	0.028	0.08
8	RES 0.0 OHM 1/8W 0805 SMD	VISHAY/DALE	CRCW08050000Z0EA	DIGIKEY	541-0.0ACT-ND	Y	Y	0.030	0.24
1	RES SMD 220 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805220RFKEA	DIGIKEY	541-220CCT-ND	Y	Y	0.028	0.02
14	RES 10.0K OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW080510K0FKEA	DIGIKEY	541-10.0KCCT-ND	Y	Y	0.028	0.39
3	RES SMD 470 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805470RFKEA	DIGIKEY	541-470CCT-ND	Y	Y	0.028	0.08
14	RES 2.20K OHM 1/8W 1% 0805 SMD	PANASONIC	ERJ-6ENF2201V	DIGIKEY	P2.20KCCT-ND	Y	Y	0.021	0.29
1	RES SMD 47K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080547K0FKEA	DIGIKEY	541-47.0KCCT-ND	Y	Y	0.028	0.02
2	RES SMD 1.5K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08051K50FKEA	DIGIKEY	541-1.50KCCT-ND	Y	Y	0.028	0.05

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R78, R79, R111
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R104
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SW2
SW3, SW4
SW5
U1
U2
U3
U4
U5
U6, U8
U7, U13
U9
U10
U11
U12
U14
U15
U16
X1
XTAL1
XTAL2
XTAL3, XTAL4

4	RES 100 OHM 1/8W 1% 0805 SMD	VISHAY/DALE	CRCW0805100RFKEA	DIGIKEY	541-100CCT-ND	Y	Y	0.033	0.13
6	RES SMD 330 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805330RFKEA	DIGIKEY	541-330CCT-ND	Y	Y	0.028	0.16
1	TRIMMER 500K OHM 0.5W SMD	BOURNS	3361P-1-504GLF	DIGIKEY	3361P-1-504GLFCT-ND	Y	Y	0.969	0.96
2	RES SMD 22.1K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080522K1FKEA	DIGIKEY	541-22.1KCCT-ND	Y	Y	0.028	0.05
1	POT 100K OHM 9MM SQ RTANG PLAST	BOURNS	3310C-001-104L	DIGIKEY	3310C-001-104L-ND	N	Y	1.920	1.92
1	RES SMD 4.7 OHM 5% 1/2W 1206	VISHAY DALE	CRCW12064R70JNEAHP	DIGIKEY	541-4.7UACT-ND	Y	Y	0.128	0.12
1	RES SMD 124K OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805124KFKEA	DIGIKEY	541-124KCCT-ND	Y	Y	0.028	0.02
8	RES SMD 10 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080510R0FKEA	DIGIKEY	541-10.0CCT-ND	Y	Y	0.028	0.22
2	RES SMD 180 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805180RFKEA	DIGIKEY	541-180CCT-ND	Y	Y	0.028	0.05
2	RES SMD 15 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080515R0FKEA	DIGIKEY	541-15.0CCT-ND	Y	Y	0.028	0.05
3	RES SMD 18K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080518K0FKEA	DIGIKEY	541-18.0KCCT-ND	Y	Y	0.028	0.08
3	RES SMD 3K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08053K00FKEA	DIGIKEY	541-3.00KCCT-ND	Y	Y	0.028	0.08
4	RES SMD 150 OHM 1% 1/8W 0805	VISHAY DALE	CRCW0805150RFKEA	DIGIKEY	541-150CCT-ND	Y	Y	0.028	0.11
2	RES SMD 49.9 OHM 1% 1/8W 0805	VISHAY/DALE	CRCW080549R9FKEA	DIGIKEY	541-49.9CCT-ND	YES	YES	0.028	0.05
1	RES SMD 47 OHM 1% 1/8W 0805	VISHAY DALE	CRCW080547R0FKEA	DIGIKEY	541-47.0CCT-ND	Y	Y	0.028	0.02
1	RES SMD 68K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080568K0FKEA	DIGIKEY	541-68.0KCCT-ND	Y	Y	0.028	0.02
1	RES SMD 33K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080533K0FKEA	DIGIKEY	541-33.0KCCT-ND	Y	Y	0.028	0.02
1	RES SMD 15K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080515K0FKEA	DIGIKEY	541-15.0KCCT-ND	Y	Y	0.028	0.02
1	RES SMD 39K OHM 1% 1/8W 0805	VISHAY DALE	CRCW080539K0FKEA	DIGIKEY	541-39.0KCCT-ND	Y	Y	0.028	0.02
2	RES SMD 3.3K OHM 1% 1/8W 0805	VISHAY DALE	CRCW08053K30FKEA	DIGIKEY	541-3.30KCCT-ND	Y	Y	0.028	0.05
3	SHUNT LP 2 POS SN	TYCO AMP	1-382811-6	DIGIKEY	A26231-ND	Y	Y	0.210	0.63
9	SCOPE TEST PAD	NA	NA	NA	NA	NA	NA	0.000	0.00
1	4.5X4.5mm TACT SWITCH SMT	YQLXDZ	TS-02B	YQLXDZ.COM	TS-02B	N	Y	0.050	0.05
1	SWITCH PUSH DPDT 0.3A 30V	E-SWITCH	LC2259OANP	DIGIKEY	LC2259OANP-ND	Y	Y	0.620	0.62
2	4.5X4.5mm TACTILE SWIRCH RA TH	YQLXDZ	TS-026	YQLXDZ	TS-026	N	Y	0.050	0.10
1	SWITCH PUSH DPDT 0.3A 30V	E-SWITCH	LC2259EENP	DIGIKEY	LC2259EENP-ND	Y	Y	0.620	0.62
1	IC MCU 32BIT 1MB FLASH 100LQFP	STM	STM32F405VGT6	DIGIKEY	497-11910-ND	N	Y	9.364	9.36
1	IC PWR SWITCH 1CH 500MA SOT23-5	STM	STMPS2141STR	DIGIKEY	497-6933-1-ND	N	Y	0.480	0.48
1	I C EMI FILTR/ESD PROT 11FLIPCHIP	STM	EMIF02-USB03F2	DIGIKEY	497-13521-1-ND	N	Y	0.525	0.52
1	DO NOT LOAD	NA	NA	NA	NA	NA	NA	0.000	0.00
1	IC REG LDO 9V 0.5A DPAK	STM	L78M09CDT-TR	DIGIKEY	497-1208-1-ND	Y	Y	0.347	0.34
2	IC REG LDO 3.3V 1A SOT223	STM	LD1117AS33TR	DIGIKEY	497-1228-1-ND	Y	Y	0.445	0.89
2	IC OPAMP GP 1MHZ RRO SOT23-	TI	LMV341DBVR	DIGIKEY	296-17843-1-ND	N	Y	0.556	1.11
1	IC REG BUCK SYNC ADJ 3A 8SOPWR	TI	TPS54329EDDAR	DIGIKEY	296-29856-1-ND	N	Y	1.650	1.65
1	IC AMP AUDIO PWR .325W AB 8SOIC	TI	LM386MX-1/NOPB	DIGIKEY	LM386MX-1/NOPBCT-ND	N	Y	0.687	0.68
1	SURFACE MOUNT FREQUENCY MIXER ADE-1	MINI-CIRCUITS		MINI-CIRCUITS		N	Y	0.000	0.00
1	ULTRA LINEAR LOW NOISE AMPLIFIER	MINI-CIRCUITS		MINI-CIRCUITS		N	Y	0.000	0.00
1	IC CLK GENERATOR 200MHZ 10MSOP	SILICON LABS	SI5351A-B-GT	DIGIKEY	336-2399-5-ND	N	Y	0.848	0.84
1	OSC XO 10MHZ-1.4175GHZ LVPECL	SILICON LABS	570AAC000118DG	DIGIKEY	570AAC000118DG-ND	N	Y	10.167	10.16
1	IC MIXER 500MHZ UP CONVRT 8SO	NXP	SA612AD/01,112	DIGIKEY	568-1204-5-ND	Y	Y	1.640	1.64
1	CONN SOCKET SMA R/A DIE CAST PCB	TE Connectivity	5-1814400-1	DIGIKEY	A97593-ND	Y	Y	2.660	2.66
1	8MHz ±30ppm Crystal 18pF 80 Ohm	CTS	405I35D08M000000	DIGIKEY	405I35D08M000000-ND	Y	Y	0.800	0.80
1	25MHz ±30ppm Crystal 13pF 50 Ohm	CTS	405C35B25M000000	DIGIKEY	CTX652CT-ND	Y	Y	0.780	0.78
2	MONO CRYST FILTER 25KHZ 4P 2PC	ECS	ECS-10.7-15B	DIGIKEY	X704-ND	N	Y	3.900	7.80

TOTAL 95.55