

RF Board

Bill Of Materials for 17301.sch on Tue Mar 02 08:13:02 2004

PART NUMBER NOTE	QTY	PART DESC	REF -DES	PART -TYPE	SPECIAL
51029	1	SWITCH\SPDT\NKK 12AS12AV	S3	!SW\SPDT\NKAS12A	
21704	1	CONNECTOR\PC PIN\.050	J3	CON\.05\7P\.705	
		CENTERS\7P\.705LENGTH\MALE			
21705	1	CONNECTOR\PC PIN\.050	J5	CON\.05\8P\.705	
		CENTERS\8P\.705LENGTH\MALE			
P1112	1		B1	CON\9VBAT\T195	
21519	3	CONNECTOR\RECEPTICAL\PCB\.02	J1-2 J4	CON\EYELET\RF	
		5 SQ PIN\FEMALE			
SCC100PH%5	4	CAP SMD 100PF 5% NPO 0402	C36 C46	SCC100PH%5	
			C69 C98		
SCC10M6V3	2	CAP SMD 10M Y5V 0805 6.3V	C23 C25	SCC10M6V3	
SCC10PH%P5	3	CAP SMD 10PF ±0.5P NPO 0402	C4 C11	SCC10PH%P5	
			C41		
SCC12PH%P5	1	CAP SMD 12PF ±5% NPO 0402	C29	SCC12PH%5	
SCC15PH%5	1	CAP SMD 15PF 5% NPO 0402	C49	SCC15PH%5	
SCC1M	1	CAP SMD 1MFD +80/-20% 50V	C31	SCC1M	
		0805			
SCC1M16V	3	CAP SMD 1M X7R 0805 16V	C6 C13	SCC1M16V	
			C35		
SCC1N2	4	CAP SMD 1N2F 5% NPO 0805	C24 C75	SCC1N2	
			C111		
			C113		

SCC1NH%10	11	CAP SMD 1nF 10% NPO 0402	C3 C17	SCC1NH%10	
			C21 C28		
			C30		
			C38 -39		
			C55 -57		
			C109		
SCC1P%P1	1	CAP SMD 1PF TOL 0.1pF 0805	C15	SCC1P%P1	
SCC1P8%P1	1	CAP SMD 1.8PF TOL 0.1pF	C10	SCC1P8%P1	
		0805			
SCC220PH%5	2	CAP SMD 220PF 5% NPO 0402	C96 -97	SCC220PH%5	
SCC22PH%5	3	CAP SMD 22PF 5% NPO 0402	C40 C50	SCC22PH%5	
			C71		
SCC2PH%P25	2	CAP SMD 2PF +- .25PF NPO 0402	C54 C66	SCC2PH%P25	
SCC390PH%5	4	CAP SMD 390PF 5% NPO 0402	C20 C76	SCC390PH%5	
			C110		
			C112		
SCC3PH%P25	2	CAP SMD 3PF ±0.25PF NPO 0402	C7 C62	SCC3PH%P25	
SCC47N	1	CAP SMD 47N 10% 0805 X7R	C65	SCC47N	
SCC4M7A10V	2	CAP SMD 4.7M X7R 1206	C48 C64	SCC4M7A10V	
SCC5PH%P25	3	CAP SMD 5PF +- .25PF NPO 0402	C9 C51	SCC5PH%P25	
			C53		
SCC6PH%P5	1	CAP SMD 6PF ±0.5P NPO 0402	C33	SCC6PH%P5	
SCC82PH%5	1	CAP SMD 82PF 5% NPO 0402	C18	SCC82PH%5	
SCCM1H10V%10	23	CAP SMD 0.1uF, 10V, 10%,	C1 -2 C5	SCCM1H10V%10	
0		X5R, 0402	C8 C12		
			C16 C19		
			C22 C26		
			C32 C37		

			C42 C44	
			C47 C52	
			C58 -59	
			C67 -68	
			C70 C72	
			C74 C120	
SCCP4%P1	1	CAP SMD 0.4PF TOL 0.1pF	C43	SCCP4%P1
		1.4mm sq		
SCT10MB16V	1	CAP SMD 10uF TANT 16V	C60	SCT10MB16V
SCT1MA16V	1	CAP SMD 1uF 10% TANT 16V	C45	SCT1MA16V
SCT2M2A10V	1	CAP SMD 2.2uF TANT 10V	C63	SCT2M2A10V
SCT68MD20V+	1	CAP SMD 68uF TANT 20V LOW	C61	SCT68MD20V+LE
LE		ESR		
SDG4003	1	DIODE SMD RLR4003 1AMP 200V	D10	SDG4003
SDS130	1	DIODE,MBRS130LT3,SCHOTTKY,	D1	SDS130
		1AMP,30V		
SDV1204-199	1	DIODE,VARACTOR,SMV1240-199	D2	SDV1204-199
SIA7301	2	IC OP AMP SINGLE UNIVERSAL	U13 -14	SIA7301
		30V RAIL TO RAIL SOT23 -5		
SIAAD8606	2	IC OP AMP, 8nV, 5.5V,	U2 U12	SIAAD8606
		65uVos, 10 MHz, RR in&out,		
		1nF load, Micro 8		
SIP887	1	IC, STEP-DOWN VOLTAGE	U11	SIP887
		CONVERTER		
SIP2985/1V8	1	IC, LD REG, 1.8V, SOT23 -5	U7	SIP2985/1V8
SIP2985/3V	1	IC, LD REG, 3.0V, SOT23 -5	U6	SIP2985/3V
SIR8026	1	I.C. ,PLL, Fractional N,	U4	SIR8026
		DUAL, 2.5 and 0.5 GHZ,		

		PHILIPS SA8026DH			
SIR8345	1	IC, UHF QUADRATURE	U1	SIR8345	
		MODULATOR, SSOP16			
SLC100NA	1	IND SMD 100nH 0805	L3	SLC100NA	
SLC12NA	2	IND SMD 12nH, 0805	L9 L18	SLC12NA	
SLC15NA	3	IND SMD 15nH, 0805	L2 L5	SLC15NA	
			L10		
SLC33NA	1	IND SMD 33nH, 0805	L4	SLC33NA	
SLC47N	1	IND SMD 47nH	L12	SLC47N	
SLC47NA	3	IND SMD47nH, 0805	L7 -8 L13	SLC47NA	
SLFBEAD3	4	FERRITE BEAD, SMT,	L1 L11	SLFBEAD3	
		120@100MHz, 0805	L14 -15		
SLP47UG	1	INDUCTOR, 47UH, FERRITE, POWER,	L6	SLP47UG	
		SMD			
SRA0R	2	RESISTOR SMD 1\10W 0805 0	L17 L24	SRA0R	
		OHM			
SRA1R	1	RESISTOR SMD 1\10W 0805 1	R14	SRA1R	
SRA30R1	1	RESISTOR SMD 1\10W 0805	R38	SRA30R1	
		30.1 OHM			
SRH100K	2	RESISTOR SMD 1\16W 0402 100K	R19 R61	SRH100K	
SRH100R	6	RESISTOR SMD 1\16W 0402 100	R17 -18	SRH100R	
		Ohm	R24 R27		
			R32 R39		
SRH10K	12	RESISTOR SMD 1\16W 0402 10K	R3 -4	SRH10K	
			R9 -10		
			R16 R21		
			R35 R40		
			R52 -54		

				R56		
SRH10R	1	RESISTOR SMD 1\16W 0402 10	R49	SRH10R		
		Ohm				
SRH18K2	3	RESISTOR SMD 1\16W 0402	R6 R31	SRH18K2		
		18.2K	R34			
SRH1K	1	RESISTOR SMD 1\16W 0402 1K	R11	SRH1K		
SRH200R	5	RESISTOR SMD 1\16W 0402 200	R13 R30	SRH200R		
		Ohm	R36 -37			
			R42			
SRH2K	1	RESISTOR SMD 1\16W 0402 2K	R58	SRH2K		
SRH2K21	13	RESISTOR SMD 1\16W 0402	R1 -2	SRH2K21		
		2.21K	R25 -26			
			R33			
			R45 -48			
			R50 -51			
			R55 R94			
SRH2K32	1	RESISTOR SMD 1\16W 0402	R5	SRH2K32		
		2.32K				
SRH301R	1	RESISTOR SMD 1\16W 0402 301	R20	SRH301R		
		Ohm				
SRH33K2	1	RESISTOR SMD 1\16W 0402	R57	SRH33K2		
		33.2K				
SRH35K7	1	RESISTOR SMD 1\16W 0402	R15	SRH35K7		
		35.7K				
SRH3K32	4	RESISTOR SMD 1\16W 0402	R8 R12	SRH3K32		
		3.32K	R29 R43			
SRH3K74	1	RESISTOR SMD 1\16W 0402	R22	SRH3K74		
		3.74K				

SRH49R9	1	RESISTOR SMD 1\16W 0402 49.9	R23	SRH49R9	
SRH5K11	1	RESISTOR SMD 1\16W 0402	R28	SRH5K11	
		5.11K			
SRH6K81	2	RESISTOR SMD 1\16W 0402	R7 R41	SRH6K81	
		6.81K			
STF2301	2	MOSFET, P-CH, SI2301DS,	Q1 Q4	STF2301	
		DMOS, 1A, -20V			
STF54143	1	PHEMP, LOW NOISE, MEDIUM	Q6	STF54143	
		POWER			
STN4124	2	TRANSISTOR, RF, SOT -23,	Q5 Q12	STN4124	
		MMBT4124			
STN4401	1	TRANSISTOR, GP, SOT -23,	Q3	STN4401	
		MMBT4401			
STN520T	2	TRANSISTOR, RF, SOT -416,	Q2 Q7	STN520T	
		BFR520T			
STN800T	1	IC, DUAL NPN RF TRANSISTOR	U5	STN800T	
SXITBL	1	50 OHM ISOLATOR CIRCULATOR	IS01	SXITBL	
SYQ11M3	1	SMD XTAL, 11.300MHZ, 20PF,	XT2	SYQ1 1M3	
		TEMP 10PPM			
	3	40 MIL TEST PAD, 20 MIL HOLE	TP1 -3	TP1\40R25	

Audio/Logic Board

Bill Of Materials for 17302.sch on Tue Mar 02 08:12:14 2004					

PART NUMBER	QTY	PART DESC	REF -DES	PART -TYPE	SPECIAL
NOTE					

21599	2	CONNECTOR\PC PIN\.050	J1 -2	CON\.05\4P\FE	
		CENTERS\4P\FEMALE			
21561	1	CONNECTOR\PC PIN\.050	J3	CON\.05\7P\FE	
		CENTERS\7P\FEMALE			
21636	1	CONNECTOR\PC PIN\.050	J4	CON\.05\8P\FE	
		CENTERS\8P\FEMALE			
21703	1	2.5 mm micro phone jack	J5	JACK\2.5MM\RA\M0	
				NO	
SCC100PH%5	3	CAP SMD 100PF 5% NPO 0402	C1 C9	SCC100PH%5	
			C33		
SCC10M6V3	6	CAP SMD 10M Y5V 0805 6.3V	C7 C15	SCC10M6V3	
			C30 -31		
			C48 C53		
SCC1M16V	10	CAP SMD 1M X7R 0805 16V	C10 -11	SCC1M16V	
			C22		
			C24 -26		
			C28 C32		
			C41 C52		
SCC1N	1	CAP SMD 1NF 5% NPO 0805	C50	SCC1N	
SCC1N2	1	CAP SMD 1N2F 5% NPO 0805	C36	SCC1N2	
SCC1NH%10	1	CAP SMD 1nF 10% NPO 0402	C4	SCC1NH%10	
SCC220PH%5	1	CAP SMD 220PF 5% NPO 0402	C35	SCC220PH%5	
SCC22PH%5	2	CAP SMD 22PF 5% NPO 0402	C39 -40	SCC22PH%5	
SCC2N2	3	CAP SMD 2.2NF 10% 0805 X7R	C2	SCC2N2	
			C13 -14		
SCC33PH%5	1	CAP SMD 33PF 5% NPO 0402	C29	SCC33PH%5	
SCC4M7A10V	5	CAP SMD 4.7M X7R 1206	C8 C17	SCC4M7A10V	

			C19 -21		
SCC4M7A10V	2	CAP SMD 4.7M X7R 1307	C18 C49	SCC4M7A10V	
SCC4N7	2	CAP SMD 4.7NF 10% 0805 X7R	C5 C37	SCC4N7	
SCCM1H10V%10	3	CAP SMD 0.1uF, 10V, 10%,	C12 C 23	SCCM1H10V%10	
0		X5R, 0402	C34		
SCT10MB16V	2	CAP SMD 10uF TANT 16V	C6 C27	SCT10MB16V	
SCT1MA16V	2	CAP SMD 1uF 10% TANT 16V	C3 C47	SCT1MA16V	
SCT3M3A10V	1	CAP SMD 3.3uF TANT 10V	C16	SCT3M3A10V	
SDG217	1	DIODE,DUAL SWITCHING,SOT23	D12	SDG217	
SDLREDGRN	2	LED, DUAL RED GREEN, 1.5MM	D5 -6	SDLREDGRN	
		SQ, BRPG1121C			
SDLREDGRN/R/A	1	LED,DUAL,RED & GREEN, SMD RA	D2	SDLREDGRN/RA	
SDS54S	1	DIODE,DUAL SCHOTTKY 200mA,	D1	SDS54S	
		SOT23, BAT54S			
SIA7301	3	IC OP AMP SINGLE UNIVERSAL	U10 -11	SIA7301	
		30V RAIL TO RAIL SOT23 -5	U13		
SIAAD8606	1	IC OP AMP, 8nV, 5.5V,	U4	SIAAD8606	
		65uVos, 10 MHz, RR in&out,			
		1nF load, Micro 8			
SIAMAX4476	3	IC OP AMP SINGLE LO NOISE LO	U2 U5	SIAMAX4476	
		OFFSET RAIL TO RAIL 5.5V MAX	U15		
		SOT23 -6			
SID5320	1	DIGITAL TO ANALOG CONVERTER,	U20	SID5320	
		12 BIT RAIL TO RAIL OUTPUT			
SID7302	1	IC, Dual 8 Bit BtoA, 1.2 uS,	U16	SID7302	
		TSSOP 20pin			
SID18LF6720	1	8K FLASH MICRO, 4MHZ@3V,	U8	SID18LF6720	

		20MHz@5V			
SID74589A	1	IC, 8-BIT PARALLEL-SERIAL	U17	SID74589A	
		CONVERTER			
SID74AUC1G1	1	SINGLE SCHMITT-TRIGGER	U7	SID74AUC1G17	
7		BUFFER			
SID93LC86	1	IC, 2K x 8 SERIAL EEPROM,	U14	SID93LC86	
		SMT, INCOMPATIBLE WITH			
		CATALYST			
SIDAK4552	1	AKM 24-bit/96 KHz low power	U1	SIDAK4552	
		codec			
SIDTI5402	1	TI LOW POWER DSP, 100 MIPS	U3	SIDTI5402	
SIP2664	1	IC, VOLTAGE CONVERTER, VOUT	U12	SIP2664	
		= -VIN			
SIP2985/3V2	1	IC, LD REG, 3.2V, SOT23 -5	U9	SIP2985/3V2	
SIP2985/5V	1	IC, LD REG, 5V, 150 mA,	U21	SIP2985/5V	
		220C/W, lo noise, SOT23 -5			
SIPLTC1503-	1	IC, SWITCHED CAPACITOR	U6	SIPLTC1503 -1.8	
1.8		REGULATOR, 1.8V, 100mA,			
		2.4V TO 6V IN			
SJF7P.05	1	CONNECTOR\SM\PC PIN\.050	J7	SJF7P.05	
		CENTERS\7P\FEMALE			
SLC47NA	2	IND SMD47nH, 0805	L1 L3	SLC47NA	
SLFBEAD3	1	FERRITE BEAD, SMT,	L2	SLFBEAD3	
		120@100MHz, 0805			
SLFBEAD4	5	FERRITE BEAD, SMT,	L4 -8	SLFBEAD4	
		600@100MHz, 2AMP, 0805			
SRH100R	3	RESISTOR SMD 1\16W 0402 100	R11 R15	SRH100R	
		Ohm	R21		

SRH10K	10	RESISTOR SMD 1\16W 0402 10K	R3 R5 R9	SRH10K	
			R12		
			R25 - 26		
			R32		
			R40 - 41		
			R45		
SRH10R	1	RESISTOR SMD 1\16W 0402 10	R42	SRH10R	
		0hm			
SRH15K	2	RESISTOR SMD 1\16W 0402 15K	R10 R24	SRH15K	
SRH18K2	1	RESISTOR SMD 1\16W 0402	R43	SRH18K2	
		18.2K			
SRH1K	2	RESISTOR SMD 1\16W 0402 1K	R7 R68	SRH1K	
SRH1K5	1	RESISTOR SMD 1\16W 0402 1.5K	R1	SRH1K5	
SRH200R	3	RESISTOR SMD 1\16W 0402 200	R27 R38	SRH200R	
		0hm	R47		
SRH20K	1	RESISTOR SMD 1\16W 0402 20K	R20	SRH20K	
SRH2K	4	RESISTOR SMD 1\16W 0402 2K	R13 R19	SRH2K	
			R28 - 29		
SRH2K21	2	RESISTOR SMD 1\16W 0402	R35 - 36	SRH2K21	
		2.21K			
SRH2K32	2	RESISTOR SMD 1\16W 0402	R30 - 31	SRH2K32	
		2.32K			
SRH3K92	1	RESISTOR SMD 1\16W 0402	R17	SRH3K92	
		3.92K			
SRH464R	5	RESISTOR SMD 1\16W 0402 464	R6 R8	SRH464R	
		0hm	R34 R37		
			R39		
SRH49K9	13	RESISTOR SMD 1\16W 0402 49.9	R18	SRH49K9	

		K	R22 -23		
			R50 -51		
			R55 -62		
SRH5K49	2	RESISTOR SMD 1\16W 0402	R2 R33	SRH5K49	
		5.49K			
SRH6K81	1	RESISTOR SMD 1\16W 0402	R14	SRH6K81	
		6.81K			
SRH909R	1	RESISTOR SMD 1\16W 0402 909R	R4	SRH909R	
SSRTE1600	2	SWITCH\ROT\HEX\16POS\COMPLIM	S1 -2	SSRTE1600	
		ENTARY\C&K RTE			
STF7002S	1	FET, TMOS, SOT23, 2N7002LT1	Q1	STF7002S	
STP4403	1	PNP, 500MA, 40V, LO NOISE, HI	Q4	STP4403	
		GAIN			
SYQ11M3	1	SMD XTAL, 11.300MHZ, 20PF,	XT1	SYQ11M3	
		TEMP 10PPM			
	5	40 MIL TEST PAD, 20 MIL HOLE	TP2	TP1 \40R25	
			TP7 -8		
			TP12		
			TP28		
22078	1	TRIMPOT TSER 100K	R16	VRES \T\100K	

Microphone Board

Bill Of Materials for 17234e.sch on Tue Mar 02 08:15:15 2004					

PART NUMBER	QTY	PART DESC	REF -DES	PART -TYPE	SPECIAL
NOTE					
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21599	1	CONNECTOR\PC PIN\.050	J1	CON\.05\4P\FE	
		CENTERS\4P\FEMALE			
	2	PAD .055 PAD .033 HOLE	P1 -2	CON\PAD\55	
SCC100P	2	CAP SMD 100PF 5% NPO 0805	C1 C4	SCC100P	
SCC220P	1	CAP SMD 220PF 5% NPO 0805	C6	SCC220P	
SCC22P	1	CAP SMD 22PF 10% NPO 0805	C3	SCC2 2P	
SCC47P	1	CAP SMD 47PF 5% NPO 0805	C7	SCC47P	
SCCM1	2	CAP SMD 0.1M Y5U 0805	C9 C14	SCCM1	
SCF15N	1	CAP SMD 15NF FILM 5% 1206	C10	SCF15N	
		16V			
SCF6N8	1	CAP SMD 6.8NF FILM 5% 0805	C11	SCF6N8	
		16V			
SCF82N	1	CAP SMD 82NF FILM 5% 1210	C12	SCF82N	
		16V			
SCT15MA10V	5	CAP SMD 15uF TANT 10V	C2 C5 C8	SCT15MA10V	
			C21 -22		
SCTM22A35V	6	CAP SMD .22uF TANT 35V	C15 -20	SCTM22A35V	
SCTM47A25V	1	CAP SMD .47MF TANT 25V	C13	SCTM47A25V	
SIA33178	2	I.C. OPAMP LO NOISE LO PWR	U1 -2	SIA33178	
		SO-8			
SLC220NA	1	IND SMD220nH, 0805	B1	SLC220NA	
SRA1K	1	RESISTOR SMD 1\10W 0805 1K	R8	SRA1K	
SRA1K62	2	RESISTOR SMD 1\10W 0805	R20 -21	SRA1K62	
		1.62K			
SRA22K1	2	RESISTOR SMD 1\10W 22.1K	R6 -7	SRA22K1	
SRA2K	4	RESISTOR SMD 1\10W 0805 2K	R9 -10	SRA2K	
			R12 R14		
SRA3K01	2	RESISTOR SMD 1\10W 0805	R5 R13	SRA3K01	

		3.01K			
SRA464R	1	RESISTOR SMD 1\10W 0805 464	R11	SRA464R	
SRA4G	1	RESISTOR SMD 1\10W 0805 4G	R3	SRA4G	
		0HM			
SRA681R	1	RESISTOR SMD 1\10W 0805 681	R4	SRA681R	
SRA6K19	2	RESISTOR SMD 1\10W 0805	R22 - 23	SRA6K19	
		6.19K			
SRA82K5	2	RESISTOR SMD 1\10W 0805	R18 - 19	SRA82K5	
		82.5K			
SRV10KV	2	RESISTOR VARIABLE SMD 10K	R15 - 16	SRV10KV	
		VERT			
SRV2KP5E	1	RESISTOR VARIABLE SMD 2K,	R1	SRV2KP5E	
		P5E			
SRV50KV	1	RESISTOR VARIABLE SMD 50K	R17	SRV50KV	
		VERT			
SSRND3RA	1	SWITCH\ROT\HEX\16POS\COMPLIM	S1	SSRND3RA	
		ENTARY\NDFC16H			
STF202	1	TRANSISTOR, JFET, J202, LO	Q1	STF202	
		NOISE, SOT23			

