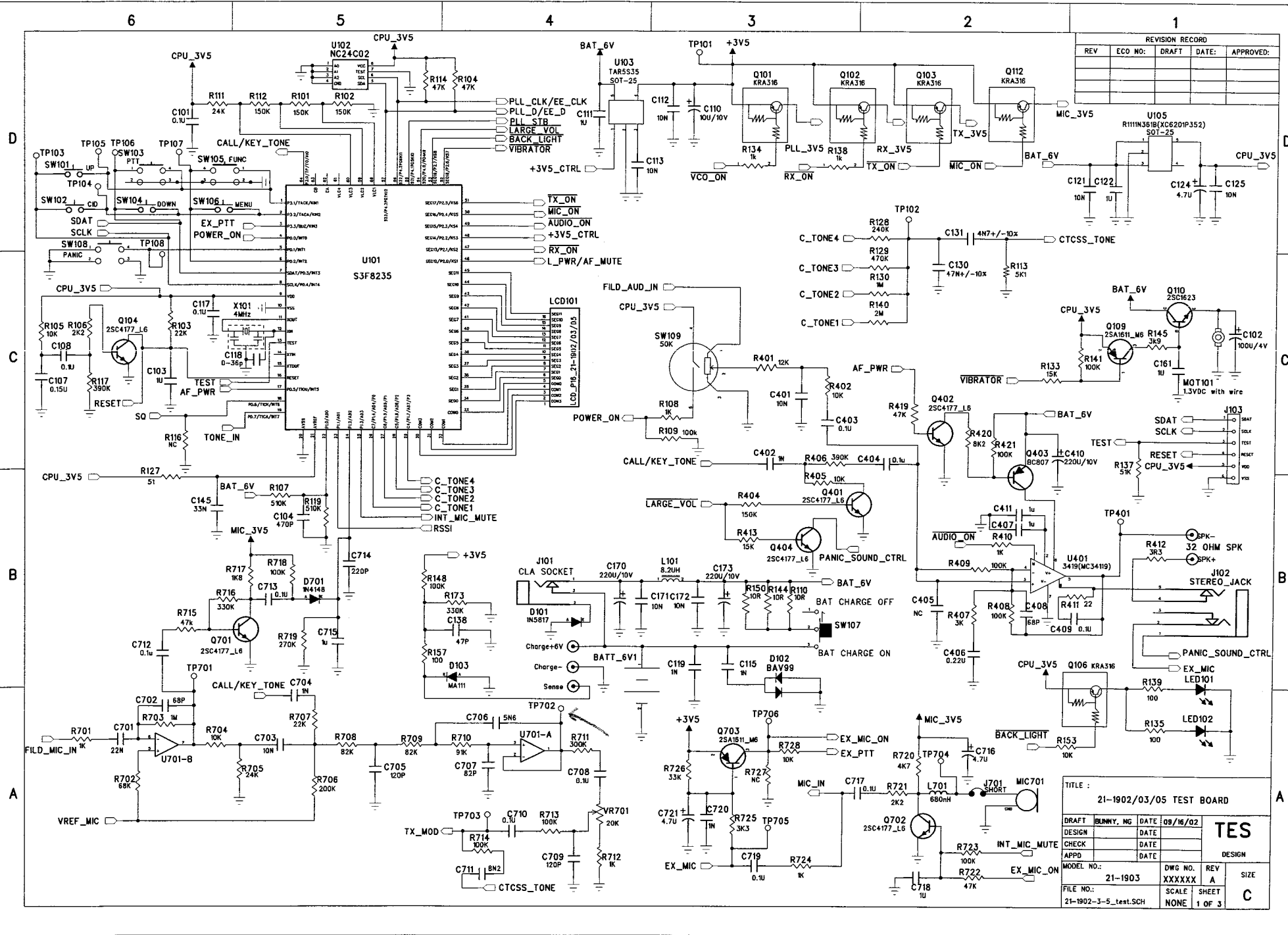
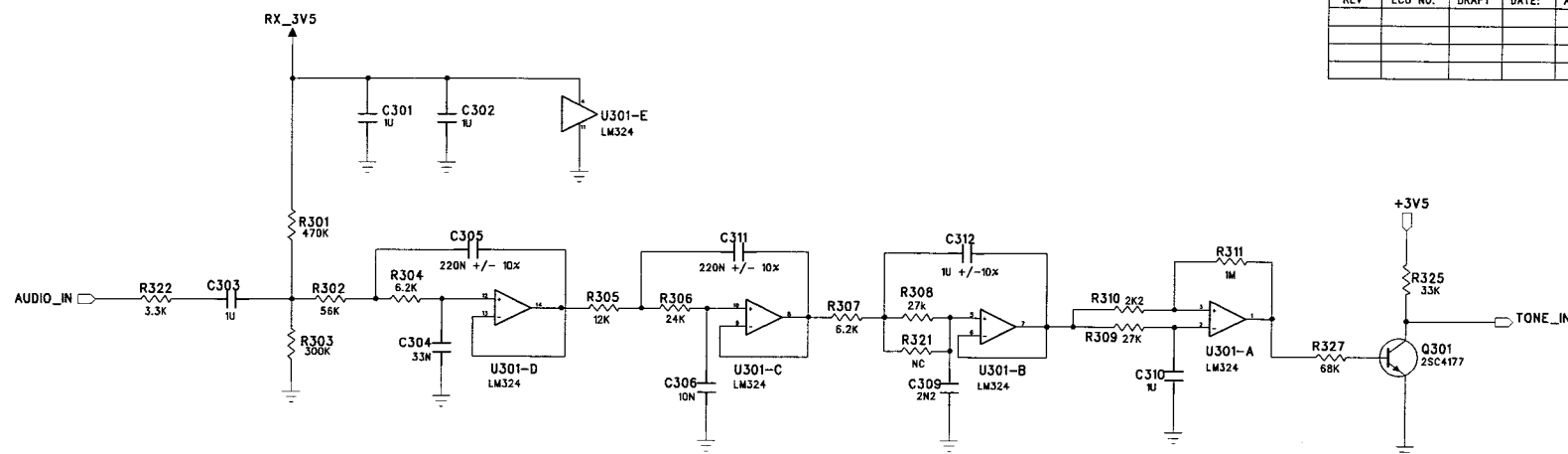
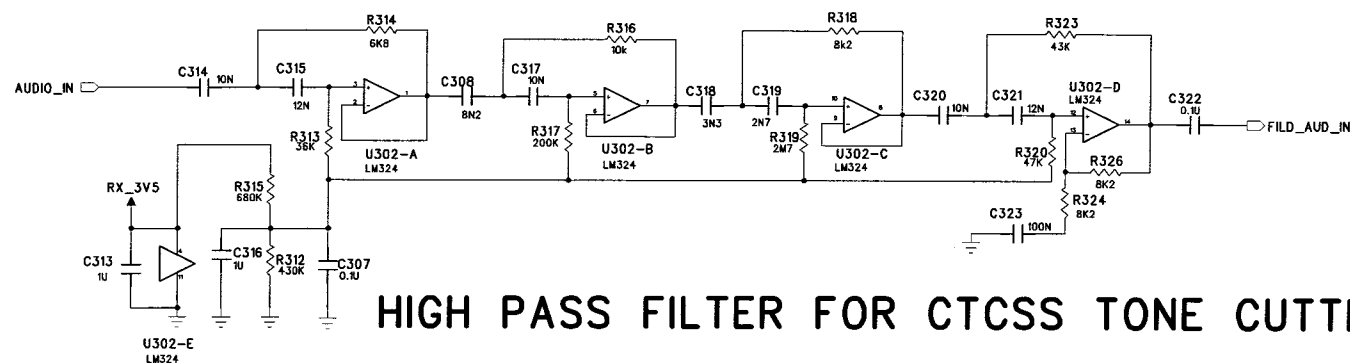




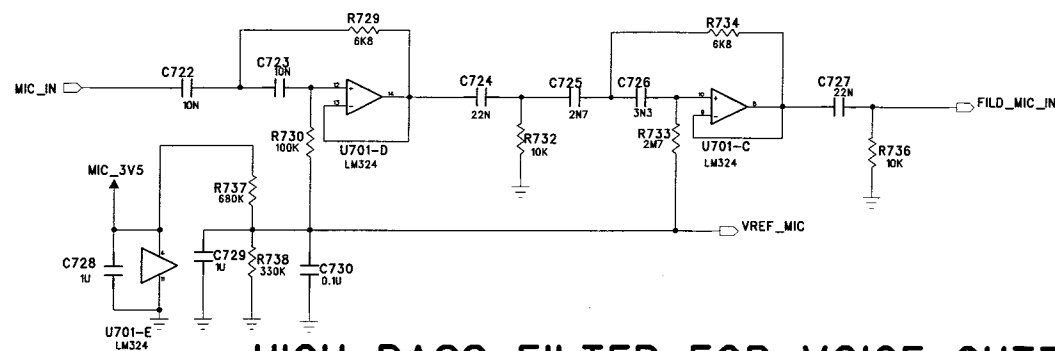
REVISION RECORD				
REV	ECO NO:	DRAFT	DATE:	APPROVED:



LOW PASS FILTER FOR CTCSS TONE DETECTION

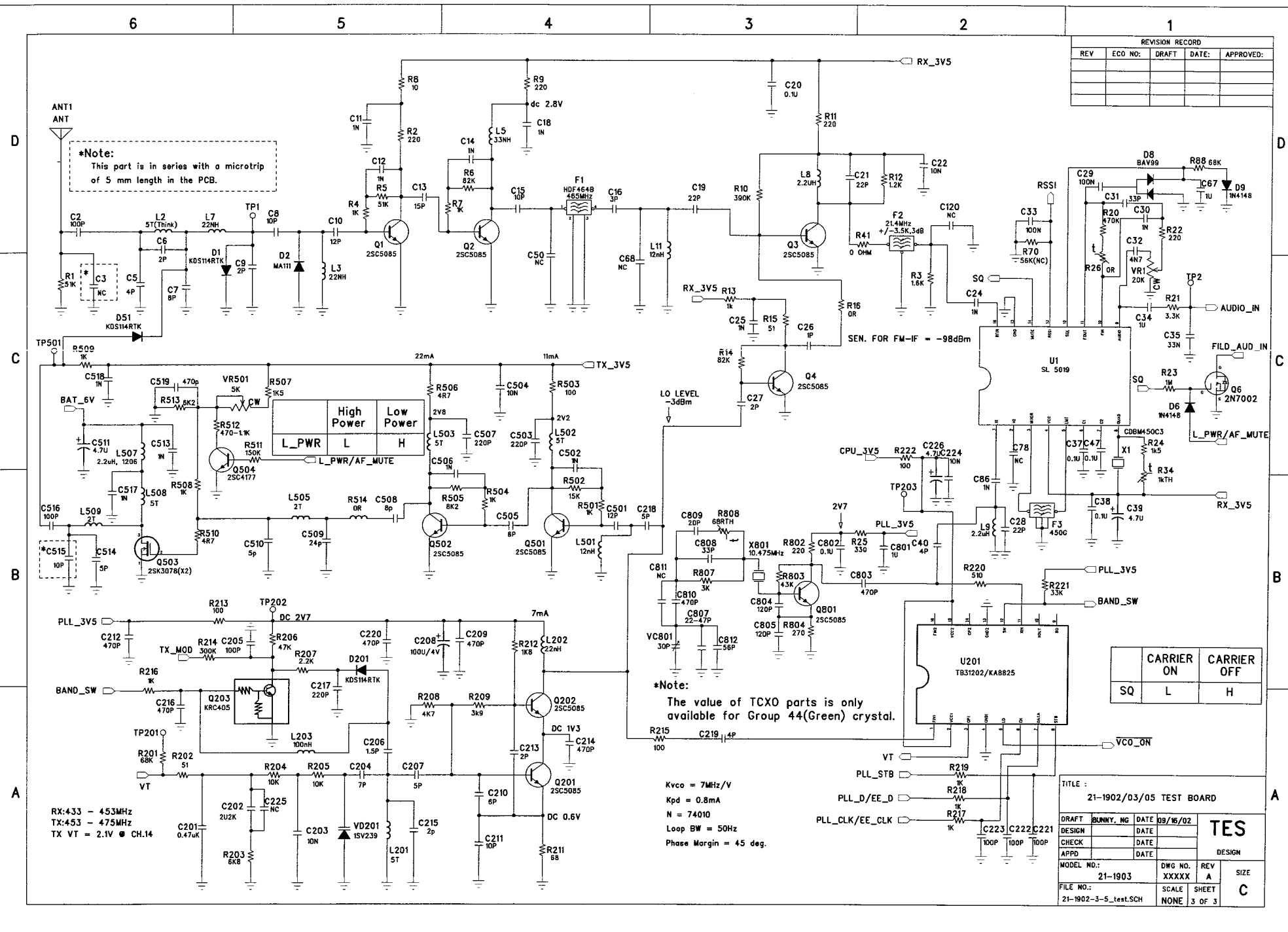


HIGH PASS FILTER FOR CTCSS TONE CUTTING



HIGH PASS FILTER FOR VOICE CUTTING

TITLE : 21-1902/03/05 TEST BOARD				
DRAFT	BUNNY, NG	DATE	09/16/02	TES
DESIGN		DATE		
CHECK		DATE		DESIGN
APPD		DATE		
MODEL NO:	21-1903	DWG NO.	XXXXXX	REV A
FILE NO:	21-1902-3-5_test.SCH	SCALE	NONE	SHEET 2 OF 3



21-1903 Part List

Part Number	Description	Q'ty
7 202180310A	MAIN PCB REV: FR4 T1.6	2
7 CBNAK100J*	CERAMIC CAPACI 0603 100J50 C 015 C 008 C 211	6
7 CBNAK101J*	CERAMIC CAPACI 1608 CH 50V 101J C 002 C 221 C 222 C 223	8
7 CBNAK101J*	CERAMIC CAPACI 1608 CH 50V 101J C 205 C 516	4
7 CBNAK120J*	CERAMIC CAPACI 0603 120J50 C 010 C 501 C 515	6
7 CBNAK121J*	CERAMIC CAPACI 0603 121J50 C 705 C 709	4
7 CBNAK150J*	CERAMIC CAPACI 0603 150J50 CBNAK150JH CERAMIC CAPACITOR C 013	2
7 CBNAK1R0C*	CERAMIC CAPACI 0603 1R0C50 C 026	2
7 CBNAK1R5C*	CERAMIC CAPACI 0603 1R5C50 C 206	2
7 CJNEK123K*	CERAMIC CAPACI 0603 X7R 123K50 C 405	2
7 CBNAK220J*	CERAMIC CAPACI 1608 CH 50V 220J C 019 C 021	4
7 CBNAK221J*	CERAMIC CAPACI 1608 CH 50V 221J CBNAK221JM CERAMIC CAPACITOR C 217 C 503 C 507 C 714	8
7 CBNAK240J*	CERAMIC CAPACI 1608 CH 50V 240J CBNAK240JM CERAMIC CAPAICTOR C 509	2
7 CBNAK2R0C*	CERAMIC CAPACI 1608 CH 50V 2R0C C 009 C 006 C 213 C 027	8
7 CBNAK330J*	CERAMIC CAPACI 1608 CH 50V 330J C 031	2
7 CBNAK4R0C*	CERAMIC CAPACI 1608 CH 50V 4R0C C 215	2
7 CBNAK470J*	CERAMIC CAPACI 1608 CH 50V 470J C 138	2
7 CBNAK471J*	CERAMIC CAPACI 0603 471J50 C 209 C 212 C 214 C 216	8
7 CBNAK471J*	CERAMIC CAPACI 0603 471J50 C 220 C 519 C 104	6
7 CBNAK471J*	CERAMIC CAPACI 0603 471J50 C 520 C 521 C 512	6
7 CBNAK4R0C*	CERAMIC CAPACI 1608 CH 50V 4R0C C 040 C 219	8
7 CBNAK5R0C*	CERAMIC CAPACI 0603 5R0C50 C 218 C 207 C 510	6
7 CBNAK680J*	CERAMIC CAPACI 1608 CH 50V 680J C 408 C 702 C 028	6
7 CBNAK6R0C*	CERAMIC CAPACI 0603 6R0C50	4

	C 210 C 514	
7 CBNAK7R0C*	CERAMIC CAPACI 0603 7R0C50 C 508	2
7 CBNAK820J*	CERAMIC CAPACI 1608 CH 50V 820J C 707	2
7 CBNAK8R0D*	CERAMIC CAPACI 0603 50V 8pFD C 007 C 505	4
7 CJNAD225KM	CERAMIC CAPACI GRM188R60J225KE01C CJNAD225KH CERAMIC CAPACITOR C 202	2
7 CJNEE224K*	CERAMIC CAPACI 0603X7R 224K10 C 406 C 311 C 305	6
7 CJNEE474K*	CERAMIC CAPACI 0603X7R474K10 C 201	2
7 CJVPE475Z*	CERAMIC CAPACI 0805 Y5V 475Z10 CJVPE475ZM CERAMIC CAPACITOR C 124 C 716 C 721	6 0
7 CJNEG473K*	CERAMIC CAPACI 0603 X7R 473K16 C 130	2
7 CJNEK102K*	CERAMIC CAPACI 0603 X7R 102K50 C 012 C 014 C 018 C 024	8
7 CJNEK102K*	CERAMIC CAPACI 0603 X7R 102K50 C 025 C 030 C 011 C 086	8
7 CJNEK102K*	CERAMIC CAPACI 0603 X7R 102K50 C 502 C 506 C 513 C 517	8
7 CJNEK102K*	CERAMIC CAPACI 0603 X7R 102K50 C 518 C 115 C 119 C 402	8
7 CJNEK102K*	CERAMIC CAPACI 0603 X7R 102K50 C 704 C 720	4
7 CJNEK103K*	CERAMIC CAPACI 0603 X7R 103K50 C 022 C 203 C 224 C 504	8
7 CJNEK103K*	CERAMIC CAPACI 0603 X7R 103K50 C 171 C 172 C 314 C 317	8
7 CJNEK103K*	CERAMIC CAPACI 0603 X7R 103K50 C 320 C 401 C 125 C 112	8
7 CJNEK103K*	CERAMIC CAPACI 0603 X7R 103K50 C 113 C 121 C 306 C 703	8
7 CJNEK103K*	CERAMIC CAPACI 0603 X7R 103K50 C 722 C 723	4
7 CJNEK123K*	CERAMIC CAPACI 0603 X7R 123K50 C 315 C 321	4
7 CJNEK222K*	CERAMIC CAPACI 0603 X7R 222K50 C 309	2
7 CJNEK272K*	CERAMIC CAPACI 0603 X7R 272K50 C 319 C 725	4
7 CJNEK332K*	CERAMIC CAPACI 0603 X7R 332K50 C 318 C 726	4
7 CJNEK223K*	CERAMIC CAPACI 0603 X7R 223K50 C 724 C 727 C 701	6
7 CJNEK333K*	CERAMIC CAPACI 0603 X7R 333K50 C 035 C 145 C 304	6
7 CJNEK472K*	CERAMIC CAPACI 0603 X7R 472K50 C 032 C 131	4

7 CJNEK562K*	CERAMIC CAPACI 0603 X7R 562K50 C 706	2
7 CJNEK822K*	CERAMIC CAPACI 0603 X7R 822K50 C 711	2
7 CJNEK822K*	CERAMIC CAPACI 0603 X7R 822K50 C 308	2
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 029 C 033 C 037 C 038	8
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 020 C 047 C 101 C 108	8
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 117 C 307 C 322	6
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 403 C 409 C 404 C 708	8
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 710 C 712 C 713 C 717	8
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 719 C 730	4
7 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16 C 109 C 132 C 133 C 134	8
7 CJNAD105KM	CERAMIC CAPACI 0603 X5R 105K6.3 C 312	2
7 CJNPG105Z*	CERAMIC CAPACI 0603 Y5V 105Z16 C 034 C 067 C 103 C 111	8
7 CJNPG105Z*	CERAMIC CAPACI 0603 Y5V 105Z16 C 122 C 161 C 301 C 302	8
7 CJNPG105Z*	CERAMIC CAPACI 0603 Y5V 105Z16 C 303 C 310 C 313 C 316	8
7 CJNPG105Z*	CERAMIC CAPACI 0603 Y5V 105Z16 C 407 C 411 C 715	6
7 CJNPG105Z*	CERAMIC CAPACI 0603 Y5V 105Z16 C 718 C 728 C 729	6
7 CJNPG154Z*	CERAMIC CAPACI 0603 Y5V 154Z16 C 107 C 323	4
7 CJVPE475Z*	CERAMIC CAPACI 0805 Y5V 475Z10	6
	CJVPE475ZM CERAMIC CAPACITOR C 039 C 226 C 511	0
7 CJVPG106ZM	CERAMIC CAPACI GRM40 Y5V106Z16 C 110	2
7 CBNAK3R0C*	CERAMIC CAPACI 0603 3R0C50 C 016	2
7 RG0SN000J*	M-GLAZE RESIST RK 1/16C 000 ohmJ R 016 R 026 R 041	6
7 RG0SN100J*	M-GLAZE RESIST RK 1/16C 10 ohmJ R 008 R 110 R 144 R 150	8
7 RG0SN101J*	M-GLAZE RESIST RK1/16C 100 ohmJ R 135 R 139 R 157	6
7 RG0SN101J*	M-GLAZE RESIST RK1/16C 100 ohmJ R 213 R 215 R 222 R 503	8
7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ R 004 R 007 R 216 R 217	8
7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ R 218 R 219 R 134 R 138	8

7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ R 501 R 504 R 508 R 509	8
7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ R 410 R 701 R 712 R 724	8
7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ R 013	2
7 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ RA001 RA002 RA003 RA004	8
7 RG0SN103J*	M-GLAZE RESIST RK1/16C 10 KohmJ R 204 R 205 R 105 R 153	8
7 RG0SN103J*	M-GLAZE RESIST RK1/16C 10 KohmJ R 405 R 316 R 108	6
7 RG0SN103J*	M-GLAZE RESIST RK1/16C 10 KohmJ R 728 R 732 R 736 R 704	8
7 RG0SN104J*	M-GLAZE RESIST RK1/16C 100 KohmJ R 141 R 148 R 408 R 173	8
7 RG0SN104J*	M-GLAZE RESIST RK1/16C 100 KohmJ R 409 R 421 R 713	6
7 RG0SN104J*	M-GLAZE RESIST RK1/16C 100 KohmJ R 718 R 723 R 714 R 730	8
7 RG0SN105J*	M-GLAZE RESIST RK1/16C 1 MohmJ R 109	2
7 RG0SN105J*	M-GLAZE RESIST RK1/16C 1 MohmJ R 023 R 130 R 703 R 311	8
7 RG0SN122J*	M-GLAZE RESIST RK1/16C 1R2 KohmJ R 012	2
7 RG0SN123J*	M-GLAZE RESIST RK 1/16C 12KOHMJ R 305	2
7 RG0SN753J*	M-GLAZE RESIST RK 1/16C 75KOHMJ R 715	2
7 RG0SN152J*	M-GLAZE RESIST RK1/16C 1R5 KohmJ R 507 R 512	4
7 RG0SN153J*	M-GLAZE RESIST RK 1/16C 15KohmJ R 133 R 502 R 413	6
7 RG0SN154J*	M-GLAZE RESIST RK 1/16C 150KohmJ R 404	2
7 RG0SN182J*	M-GLAZE RESIST RK1/16C 1R8 KohmJ R 212 R 717	4
7 RG0SN204J*	M-GLAZE RESIST RK 1/16C 200KohmJ R 317 R 706	4
7 RG0SN205J*	M-GLAZE RESIST RK 1/16C 2R0MohmJ R 140	2
7 RG0SN220J*	M-GLAZE RESIST RK 1/16C 22 ohmJ R 411	2
7 RG0SN221J*	M-GLAZE RESIST RK1/16C 220 ohmJ R 002 R 022 R 011 R 009	8
7 RG0SN222J*	M-GLAZE RESIST RK1/16C 2R2 KohmJ R 207 R 106 R 310 R 721 R 003	10
7 RG0SN223J*	M-GLAZE RESIST RK1/16C 22 KohmJ R 103 R 707	4
7 RG0SN243J*	M-GLAZE RESIST RK 1/16C 24KohmJ R 306 R 705	4
7 RG0SN244J*	M-GLAZE RESIST RK 1/16C 240KohmJ	2

	R 128	
7 RG0SN273J*	M-GLAZE RESIST RK 1/16C 27KohmJ	2
	R 309	
7 RG0SN204J*	M-GLAZE RESIST RK 1/16C 200KohmJ	2
	R 719	
7 RG0SN275J*	M-GLAZE RESIST RK 1/16C 2R7MohmJ	4
	R 319 R 733	
7 RG0SN1R1J*	M-GLAZE RESIST RK 1/16C 1R1 ohmJ	2
	R 510	
7 RG0SN303J*	M-GLAZE RESIST RK 1/16C 30KohmJ	2
	R 308	
7 RG0SN302J*	M-GLAZE RESIST RK 1/16C 3R0KohmJ	2
	R 407	
7 RG0SN304J*	M-GLAZE RESIST RK1/16C 300 KohmJ	6
	R 214 R 303 R 711	
7 RG0SN331J*	M-GLAZE RESIST RK 1/16C 330 ohmJ	2
	R 025	
7 RG0SN332J*	M-GLAZE RESIST RK1/16C 3R3 KohmJ	8
	RG0SN332F* M-GLAZE RESISTOR	
	R 021 R 322 R 725 R 402	
7 RG0SN333J*	M-GLAZE RESIST RK1/16C 33 KohmJ	8
	R 221 R 325 R 726 R 511	
7 RG0SN334J*	M-GLAZE RESIST RK 1/16C 330KohmJ	4
	R 716 R 738	
7 RG0SN202J*	M-GLAZE RESIST RK1/16C 2 KohmJ	2
	R 024	
7 RG0SN363J*	M-Glaze Resist RK 1/16C 36KohmJ	2
	R 313	
7 RG0SN432J*	M-GLAZE RESIST RK 1/16C 4R3KOHMJ	2
	R 326	
7 RG0SN392J*	M-GLAZE RESIST RK 1/16C 3R9KohmJ	4
	R 145 R 209	
7 RG0SN394J*	M-GLAZE RESIST RK 1/16C 390KohmJ	4
	RG0SN394F* M-GLAZE RESISTOR	
	R 010 R 117	
7 RG0SN273J*	M-GLAZE RESIST RK 1/16C 27KohmJ	2
	R 323	
7 RG0SN434J*	M-Glaze Resist 1/16W 430KohmJ	2
	R 312	
7 RG0SN472J*	M-GLAZE RESIST RK1/16C 4R7 KohmJ	6
	R 208 R 720 R 401	
7 RG0SN473J*	M-GLAZE RESIST RK1/16C 47 KohmJ	10
	R 206 R 419 R 114 R 104 R 406	
7 RG0SN473J*	M-GLAZE RESIST RK1/16C 47 KohmJ	2
	R 722	
7 RG0SN474J*	M-GLAZE RESIST RK1/16C 470 KohmJ	6
	RG0SN474F* M-GLAZE RESISTOR	
	R 020 R 129 R 301	
7 RG0SN510J*	M-GLAZE RESIST RK 1/16C 51 ohmJ	6
	R 127 R 202 R 015	
7 RG0SN511J*	M-GLAZE RESIST RK 1/16C 510 ohmJ	2
	R 220	
7 RG0SN512J*	M-GLAZE RESIST RK1/16C 5R1 KohmJ	2

	R 113	
7 RG0SN4R7J*	M-GLAZE RESIST RK 1/16C 4R7 ohmJ R 506	2
7 RG0SN563J*	M-GLAZE RESIST RK1/16C 56 KohmJ RG0SN623F* M-GLAZE RESISTOR R 320 R 070	4
7 RG0SN513J*	M-GLAZE RESIST RK 1/16C 51KohmJ R 001 R 005 R 137	6
7 RG0SN514J*	M-GLAZE RESIST RK 1/16C 510KohmJ R 107 R 119	4
7 RG0SN563J*	M-GLAZE RESIST RK1/16C 56 KohmJ R 302	2
7 RG0SN622J*	M-GLAZE RESIST RK 1/16C 6R2KOHMJ R 304 R 307 R 513	6
7 RG0SN680J*	M-GLAZE RESIST RK1/16C 68 ohmJ R 211	2
7 RG0SN682J*	M-GLAZE RESIST RK1/16C 6R8 KohmJ RG0SN682F* M-GLAZE RESISTOR R 203 R 314 R 729 R 734	8
7 RG0SN683J*	M-GLAZE RESIST RK1/16C 68 KohmJ R 088 R 201 R 327	6
7 RG0SN683J*	M-GLAZE RESIST RK1/16C 68 KohmJ R 702	2
7 RG0SN684J*	M-GLAZE RESIST RK 1/16C 680KohmJ R 315 R 737	4
7 RG0SN822J*	M-GLAZE RESIST RK 1/16C 8R2KohmJ R 505 R 324 R 420	6
7 RG0SN822J*	M-GLAZE RESIST RK 1/16C 8R2KohmJ R 318	2
7 RG0SN823J*	M-GLAZE RESIST RK 1/16C 82KohmJ R 006 R 014 R 708 R 709	8
7 RG0SN5R6J*	M-GLAZE RESIST RK 1/16C 5R6 ohmJ R 412	2
7 RG0SN913J*	M-GLAZE RESIST RK 1/16C 91KohmJ R 710	2
7 SDSI800230	SWITCHING DIOD MA111 SDSI800430 SI DIODE D 002 D 103	4
7 SDSI800260	SI DIODE BAV99 SDSI800480 SI DIODE D 008 D 102	4
7 SDSI800390	SI DIODE (SCHO 1N5817 D 101	2
7 SDSI800410	SI DIODE KDS114 D 001 D 051 D 201	6
7 SDSI56002-	DIODE LL4148 D 006 D 009 D 701	6
7 SDTH800080	CHIP THERMISTO TBPS1S102K410H5 SDTH800220 THERMISTOR SDTH800300 THERMISTOR R 034	2
7 SDVR800080	VARISTOR DIODE BB145B SDVC800150 VARICAP DIODE	2

	VD201	
7 SF2N7002--	FET 2N7002 SOT23	4
	Q 006 Q 404	
7 SIBRC02F-W	IC EEPROM	2
	SIAS40X21- IC	
	U 102	
7 SILM324--D	IC LM324D	6
	SIAM324AD- IC	
	SISM324MX- IC	
	SIAM324D-- IC	
	U 301 U 302 U 701	
7 SISFC0C5--	IC(S3C8235 DIC S3F8235X22-C0C5	2
	U 101	
7 SISL5019--	IC SL5019	2
	U 001	
7 SIST8825--	IC S1T8825B01-R0B0	2
	SITB31202- IC	
	U 201	
7 SITR35----	IC TAR5S35	2
	SINM28F35- IC	
	U 103	
7 SIUC3419--	IC MC3419	2
	SIMC34119- IC	
	U 401	
7 SIXGP352--	IC XC6201P352MR	2
	U 105	
7 ST2A1611--	TRANSISTOR 2SA1611	4
	ST2A1980UF TRANSISTOR	
	Q 109 Q 703	
7 ST2C4177--	TRANSISTOR 2SC4177	8
	ST2C5343UF TRANSISTOR	
	Q 301 Q 504 Q 104 Q 401	
7 ST2C4177--	TRANSISTOR 2SC4177	6
	ST2C5343UF TRANSISTOR	
	Q 402 Q 701 Q 702	
7 ST2C5085--	TRANSISTOR 2SC5085	8
	Q 001 Q 002 Q 003 Q 004	
7 ST2C5085--	TRANSISTOR 2SC5085	8
	Q 201 Q 202 Q 501 Q 502	
7 STCP807---	TRANSISTOR BC807	2
	Q 403	
7 STK1405---	TRANSISTOR KRC405	2
	Q 203	
7 STKR316---	TRANSISTOR KRA316	8
	Q 101 Q 102 Q 103 Q 106	
7 STKR316---	TRANSISTOR KRA316	2
	Q 112	
7 STTC1623L6	TRANSISTOR 2SC1623(L6)	2
	Q 110	
7 SL0080074G	LED LT8B22-170T	4
	LED101 LED102	
7 142580340A	INDUCTOR 0603 PKG LK1608 .68	4
	L 701 L 009	

7 142581090A	CHIP INDUCTOR SGHI1608H22NKT L 003 L 007 L 202	6
7 142580440A	INDUCTOR HK1608-100NJ L 203	2
7 142581560A	CHIP INDUCTOR MGFI1608C2R2KB L 008	2
7 142581570A	CHIP INDUCTOR LQH43MN8R2K01 L 101	2
7 142581600A	INDUCTOR MGCI1608H33NKT L 005	2
7 144089260A	CHOKE COIL BLM31PG121SN1 L 507	2
7 142580090A	CHIP INDUCTOR HK1608-12NK L 501 L 011	4
7 177580090A	SEMI FIXED VR POZ3AN-1-203N-T00 VR001 VR701	4
7 177580110A	SEMI FIXED VR POZ3AN-1-502N VR501	2
6 141089190A	AIR COIL ER0.45*1*2T L 509 L 505	4
6 141089330A	AIR COIL CS-1.0x5Tx0.35-C* L 201 L 502 L 503 L 508	8
6 141189130A	AIR COIL ER0.45*1.0*5TR 141189210A AIR COIL L 002	2
6 187089710A	TACT SW KFC-A11-E1-5/2.5 SW103 SW105	4
6 187089700A	TACT SW KFC-A06-E-1-4.3/4 SW108	2
5 ST2K3078--	TRANSISTOR 2SK3078 Q 503	4
5 CEZCD227M*	ELECTRO CAPACI CE04 6R3V 220uFM C 170 C 173 C 410	6
5 CEDCC107M*	ELECTRO CAPACI CE04CSD 4V 100uFM C 102 C 208	4
5 391180250A	RESONATOR ZTT4.0MG X 101	2
5 392080290A	CRYSTAL FILTER 21.4MHZ 392080300A CRYSTAL FILTER 392080310A CRYSTAL FILTER F 002	2
5 392880130A	SAW FILTER F 001	2
5 392980340A	CERAMIC FILTER LTM450GW F 003	2
5 391180300A	CERAMIC DISCRI CDB450C3 X 001	2
4 TCXOASS'Y6	INTERQ X'TAL 2 10.475MHZ	2
5 391082150A	CRYSTAL,LC20P HC-49US 10.475MHZ X 801	2
5 154089120A	SMD TRIMMER TZC03P300A110T00 VC801	2
5 ST2C4226--	TRANSISTOR 2SC4226-R24	2

	Q 801	
5 CJNPG104Z*	CERAMIC CAPACI 0603 Y5V 104Z16	2
	C 802	
5 RG0SN221J*	M-GLAZE RESIST RK1/16C 220 ohmJ	2
	R 802	
5 RG0SN271J*	M-GLAZE RESIST RK1/16C 270 ohmJ	2
	R 804	
5 RG0SN433J*	M-GLAZE RESIST RK 1/16C 43KOHMJ	2
	R 803	
5 CBNAK471JM	CERAMIC CAPACI GRM39COG471J50	2
	C 810	
5 CBNAK470JM	CERAMIC CAPACI GRM39COG470J50	2
	C 807	
5 CBNAK100JM	CERAMIC CAPACI CC73CH(ML)1H100JX-T	2
	C 812	
5 CBNAK150JM	CERAMIC CAPACI GRM39COG150J50	2
	C 812	
5 CBNAK200JM	CERAMIC CAPACI GRM39COG200J50	2
	C 812	
5 CBNAK300JM	CERAMIC CAPACI GRM39COG300J50	2
	CBNAK300JH CERAMIC CAPACITOR	
	C 812	
5 CBNAK470JM	CERAMIC CAPACI GRM39COG470J50	2
	C 812	
5 CJNAD105KM	CERAMIC CAPACI 0603 X5R 105K6.3	2
	C 801	
5 CBNAK471JM	CERAMIC CAPACI GRM39COG471J50	2
	C 803	
5 TCXO-ASS31	GROUP 1 (RED)	2
6 CBNAK240JM	CERAMIC CAPACI GRM39COG240J50	1
	C 809	
6 CBNPK330JM	CERAMIC CAPACI 0603 UJ CAP 330J50	0.5
	C 808	
6 SDTH800120	THERMISTOR TBPS1R680K295H5Q	0.4
	SDTH800320 THERMISTOR	5Q
	R 808	
6 RG0SN102J*	M-GLAZE RESIST RK1/16C 1 KohmJ	2
	R 807	
6 CBNPK121JM	CERAMIC CAPACI 0603 UJ121J50	1
	C 804	
6 CBNPK121JM	CERAMIC CAPACI 0603 UJ121J50	0.68
	C 805	
5 TCXO-ASS32	GROUP 2 (BLUE)	2
6 CBNAK220JM	CERAMIC CAPACI GRM39COG220J50	0.68
	C 809	
6 CBNPK330JM	CERAMIC CAPACI 0603 UJ CAP 330J50	0.5
	C 808	
6 SDTH800120	THERMISTOR TBPS1R680K295H5Q	0.4
	SDTH800320 THERMISTOR	5Q
	R 808	
6 RG0SN182J*	M-GLAZE RESIST RK1/16C 1R8 KohmJ	2
	R 807	
6 CBNPK121JM	CERAMIC CAPACI 0603 UJ121J50	1

	C 804	
6 CBNPK121JM	CERAMIC CAPACI 0603 UJ121J50	0.66
	C 805	
5 TCXO-ASS33	GROUP 3 (GREEN	2
6 CBNAK220JM	CERAMIC CAPACI GRM39COG220J50	0.66
	C 809	
6 CBNPK330JM	CERAMIC CAPACI 0603 UJ CAP 330J50	0.5
	C 808	
6 SDTH800120	THERMISTOR TBPS1R680K295H5Q	0.4
	SDTH800320 THERMISTOR	5Q
	R 808	
6 RG0SN202J*	M-GLAZE RESIST RK1/16C 2 KohmJ	2
	R 807	
6 CBNAK121JM	CERAMIC CAPACI GRM39COG121J50	0.68
	C 804	
6 CBNPK121JM	CERAMIC CAPACI 0603 UJ121J50	0.66
	C 805	
5 TCXO-ASS34	GROUR 4 (BLACK	2
6 CBNAK220JM	CERAMIC CAPACI GRM39COG220J50	0.66
	C 809	
6 CBNPK330JM	CERAMIC CAPACI 0603 UJ CAP 330J50	0.5
	C 808	
6 SDTH800120	THERMISTOR TBPS1R680K295H5Q	0.4
	SDTH800320 THERMISTOR	5Q
	R 808	
6 RG0SN302J*	M-GLAZE RESIST RK 1/16C 3R0KohmJ	2
	R 807	
6 CBNAK121JM	CERAMIC CAPACI GRM39COG121J50	0.66
	C 804	
6 CBNAK121JM	CERAMIC CAPACI GRM39COG121J50	1
	C 805	
5 TCXO-ASS35	GROUP 5 (NO C	2
6 CBNAK240JM	CERAMIC CAPAIC GRM39COG240J50	1
	C 809	
6 CBNAK330JM	CERAMIC CAPACI 0603 330J50	2
	C 808	
6 SDTH800120	THERMISTOR TBPS1R680K295H5Q	0.4
	SDTH800320 THERMISTOR	5Q
	R 808	
6 RG0SN512J*	M-GLAZE RESIST RK1/16C 5R1 KohmJ	2
	R 807	
6 CBNAK121JM	CERAMIC CAPACI GRM39COG121J50	0.66
	C 804	
6 CBNAK121JM	CERAMIC CAPACI GRM39COG121J50	1
	C 805	
4 172989390A	ROTARY VR F-12SP1 A10K L5MM	2
	SW109	
4 183280270A	SLIDE SW SSYA-12D18-G4-TA	2
	SW107	
4 191280260A	3.5 JACK EJM-3-2235	2
	J 101	
4 191480170A	2.5 JACK EJS-5-2925	2
	191480180A 2.5 JACK	0

	J 102		
4 273189300A	63-1118 SORTIN EM926A-622-W11	2	
	273189260A MIKE UNIT		
	MIC701		
3 271089990A	SPEAKER M28D30TN	2	
	271080080A SPEAKER		
	T 003		
3 553580710A	LCD FOR 1903 WK-TZ5282	2	
	LCD101		
3 582189070A	DC MOTOR 6GL-05WA	2	
3 BK0146AAA1	RUBBER KEY SILICON RUBBER	2	
3 BK0147AAA1	PTT KEY SILICON RUBBER	2	
3 BQ0073AAA1	ANTENNA COVER PU	2	
3 BH0148AAA1	ANTENNA HOLDER POM	2	
3 BD0046AAA1	BATTERY DOOR ABS	2	
3 B30068AAA1	TOP CABINET ABS	2	
3 B40066AAA1	BOTTOM CABINET ABS	2	
3 B70011AAA1	FRONT PANEL ABS	2	
3 BQ0074AAA1	BATTERY COVER, ABS	2	
3 BQ0075AAA1	BATT.COVER,TER ABS	2	
3 BH0149AAA1	HOLDER,VIBRATO SILICON RUBBER	2	
3 BW0020AAA1	WINDOW PMMA	2	
3 BK0148AAA1	VOLUME KNOB ABS	2	
3 BH0150AAA1	VOLUME HOLDER POM	2	
3 BH0151AAA1	HOLDER,PTT POM	2	
3 DS0137AAA1	BATTERY SPRING SPRING WIRE D0.5	2	
3 DS0138AAA1	BATTERY SPRING SPRING WIRE D0.5	2	
3 DS0139AAA1	BATTERY SPRING SPRING WIRE D0.5	2	
3 DS0140AAA1	BATTERY SPRING SPRING WIRE D0.5	2	
3 DS0141AAA1	BATTERY SPRING SPRING WIRE D0.5	2	
3 DN0044AAA1	CHARGING PLATE BRONZE T0.3 Ni-PLAT	4	
3 BH0142AAA1	HOLDER/ DIFFUS PMMA	2	
3 DS0135AAA1	ANTENNA WIRE D0.7 NI-PRECOATED	2	
3 DS0157AAA1	CLIP SPRING SPRING WIRE	2	
3 B20032AAA1	CLIP BACK CABI PC LEXAN 241R	2	
3 BK0140AAA1	KNOB(CLIP LEFT POM MITSUBUSHI 7520	2	
3 BK0141AAA1	KNOB (CLIP RI POM MITSUBISHI 7520	2	
3 BK0142AAA1	KNOB (CLIP PL PC LEXAN 241R	2	
3 BQ0071AAA1	CLIP COVER PC LEXAN 241R	2	
3 B10067AAA1	CLIP FRONT CAB PC	2	F0569
3 DN0046AAA1	CHARGING PLATE T0.3 COPPER	2	F0666
3 HCB2006SY	TAP TITE SCREW 2.0x6BT-B/ZnY	2	
3 851081720A	MIC CUSHION SPONGE	2	F0578
3 DE0077AAA1	SHIELD CASE T0.3 SPTE	2	
3 DH0078AAA1	LCD HOLDER T0.3 SPTE	2	
3 HMP01704SY	SCREW 1.7x4 P /Zn	2	
3 851389640A	SPEAKER NET D26T0.1 NYLON	2	
3 199989540A	ZEBRA CONNECTO SILICON RUBBER	2	
3 HCPB2010SB	TAP TITE SCREW 2x10 PT -B/Zn	8	
3 851082100A	LCD CUSHION SPONGE	2	
3 851082110A	LCD CUSHION T5.0 SPONGE	2	
3 L1642050CC	UL-1571 RED #28 D/L L50 3/3	2	
3 L1640045CC	UL-1571 #28 D/L BLK L45 3/3	2	

3	L1012070CC	UL 1007 #28 D/L RED L70 3/3	2	
3	L1016065CC	UL 1007 #28 D/L BLUE L65 3/	2	
3	L1010055CC	UL 1007 #28 D/L BLK L55 3/3	2	
2	AL0451AAA1	RATING LABEL STICKER	2	
2	AL0452AAA1	CAUTION LABEL STICKER	2	
2	AO0150AAA1	OWNER'S MANUAL PAPER	1	
2	735280060B	DATE CODE LABE STICKER	1	F0230
1	21-1903P13	CHARGER PACKIN	1	
2	21-1903P12	CHARGER CASING	1	
3	21-1903P11	CHARGER PCB MI	1	
4	21-1903P10	CHARGER PCB AI	1	
5	202180350A	CHARGER PCB 94V0 T1.6	1	
5	ST2CT004-P	TRANSISTOR 2SC945(P)	3	
		Q 901 Q 902 Q 904		
5	SDSI90007-	SI DIODE 1N4002	2	
		D 902 D 903		
5	CC6VK104K*	CERAMIC CAPACI CC45SL1H104KY	2	
		C 901 C 904		
5	CEA4G226M*	ELECTRO CAPACI CE04C 16V 22uFM	1	
		C 903		
5	RCSQT272J*	CARBON RESISTO RD1/4UBS 2R7 KohmJ	2	
		R 901 R 904		
5	RCSHT3R3J*	CARBON RESISTO RD1/2TBS 3R3 ohmJ	2	
		R 902 R 905		
5	RCSQT180J*	CARBON RESISTO RD1/4PBS 18 ohmJ	2	
		R 903 R 906		
5	RCSQT221J*	CARBON RESISTO RD1/4PBS 220 ohmJ	1	
		R 908		
5	RCSQT821J*	CARBON RESISTO RD1/4TBS 820 ohmJ	1	
		R 907		
5	RCSQT561J*	CARBON RESISTO RD1/4TBS 560 ohmJ	1	
		R 909		
5	RCSQT302J*	CARBON RESISTO RD1/4PBS 3 KohmJ	1	
		R 910		
5	SDSI90007-	SI DIODE 1N4002	4	
		D 901 D 904 D 905 D 906		
5	STKC8550--	TRANSISTOR KTC8550	1	
		Q 903		
4	SILS317T--	IC SGSTH LM317T	1	
		U 902		
4	177289010A	SEMI FIXED VR KVSF637A- 200B	1	
		VR901		
4	CEACI228M*	ELECTRO CAPACI CE04C 25V2200uFM	1	
		C 902		
4	SL00800840	LED TL-503VDK	2	
		LED901 LED902		
4	196204200A	DC POWER JACK HEC0470-01-230	1	
		196280100A DC POWER JACK		
		J 901		
3	BH0154AAA1	ADAPTER HOLDER ABS FOR1903	2	
3	DC0003AAA1	CHASSIS SECC 0.8mm	1	F0662
3	DN0049AAA1	CONTACT PHOSPHOR BRONZE	4	
3	608000010B	FOOT RUBBER BLK	4	F0099

3 BH0152AAA1	LED HOLDER ABS	2
3 HCBB3008SN	TAP TITE SCREW 3X8 BT -B/NI	4
3 B30078AAA1	TOP CABINET ABS	1
3 HCBB2306SY	TAP TITE SCREW 2.3x6BT-B /ZnY	1
2 109280380A	POWER ADAPTER AC120V 60MHZ DC9V	1
2 AL0475AAA1	CHARGER LABEL STICKER	1
2 585089190A	BATTERY RS70AAAHC-2+5362	8