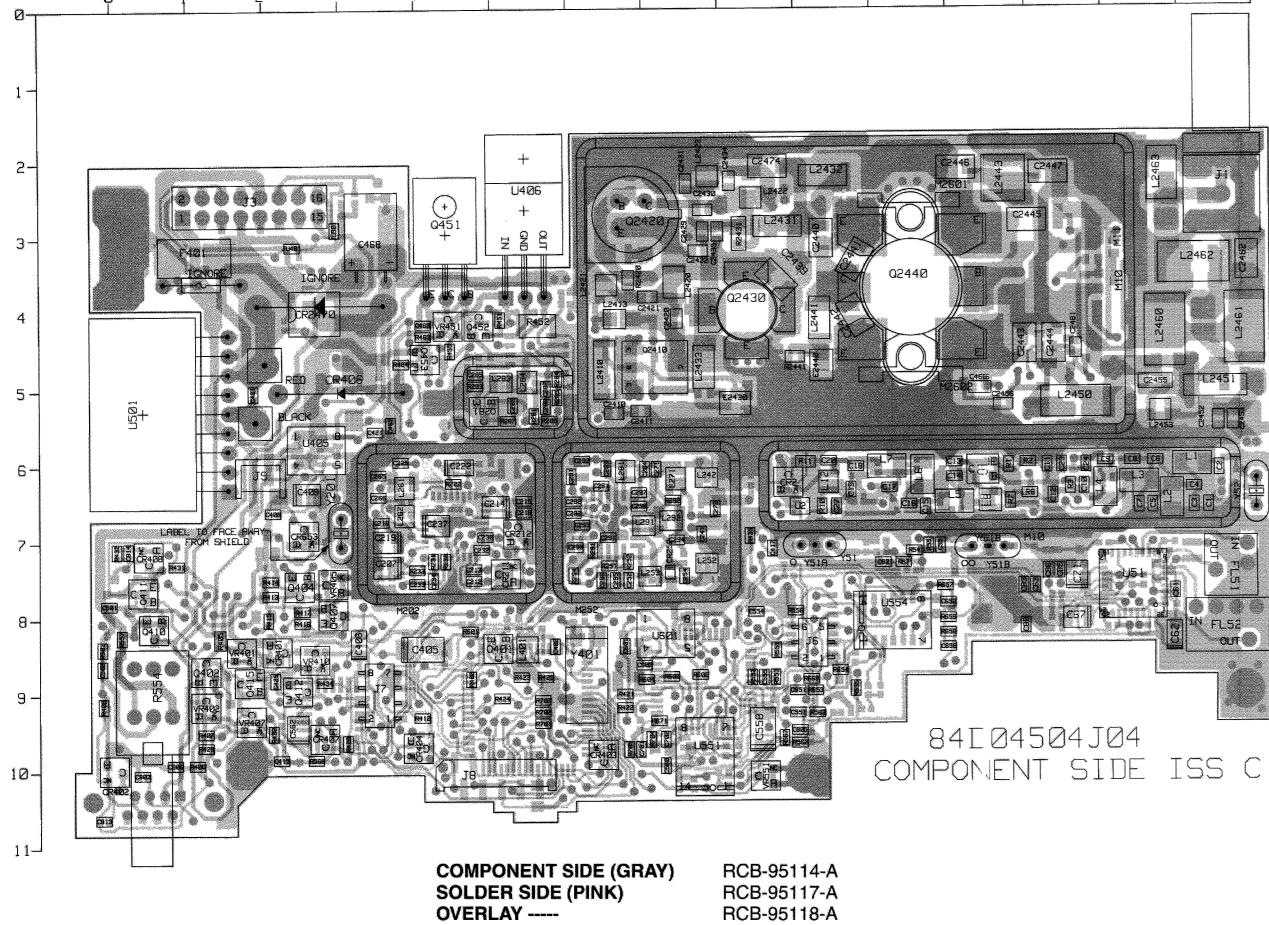
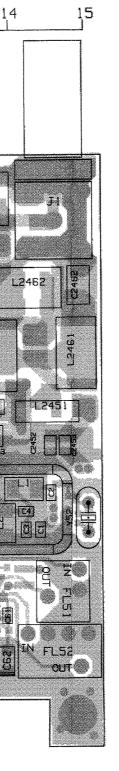
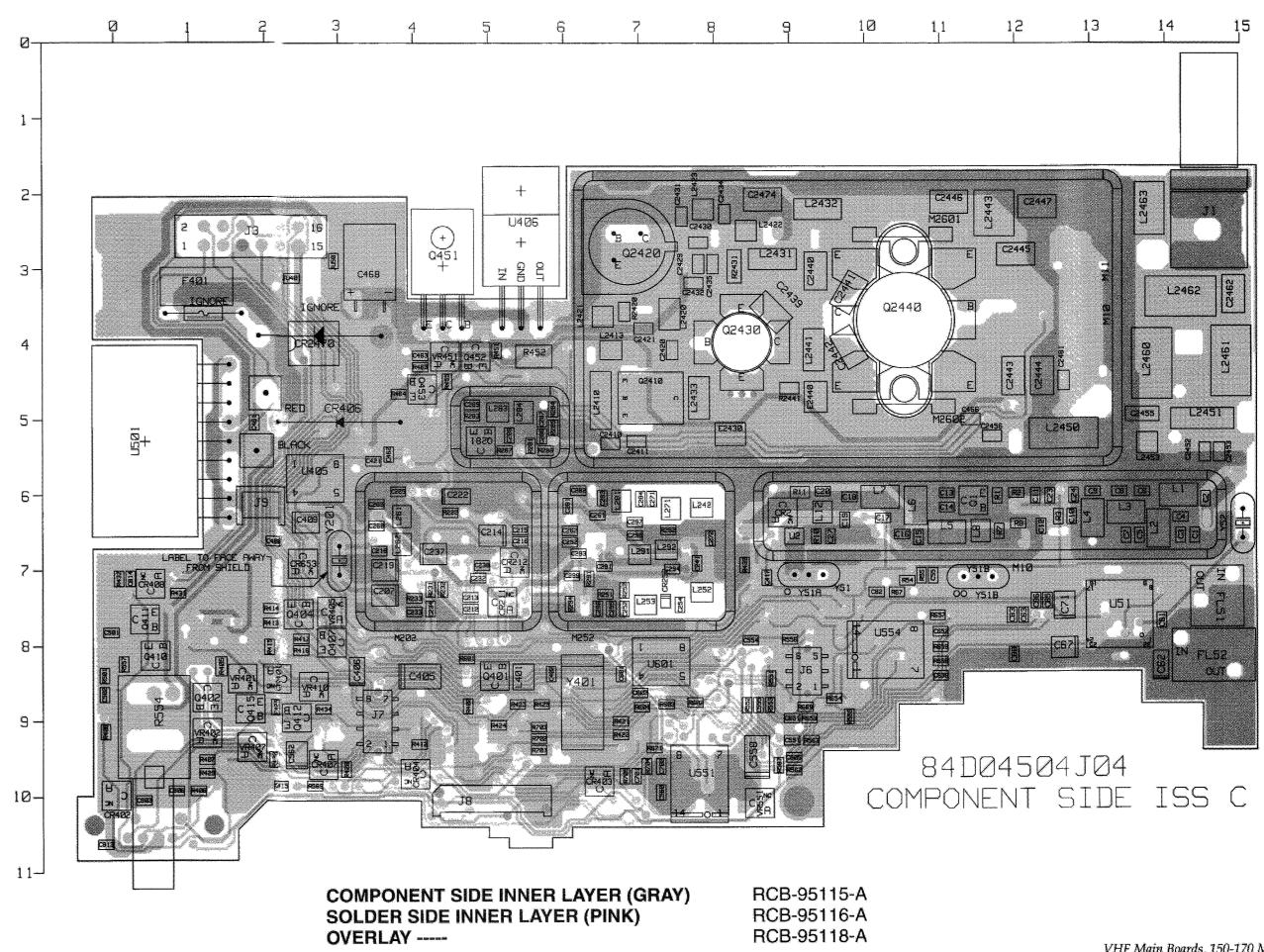
COMPONENT SIDE VIEW

RCB-95118-A



1Ø

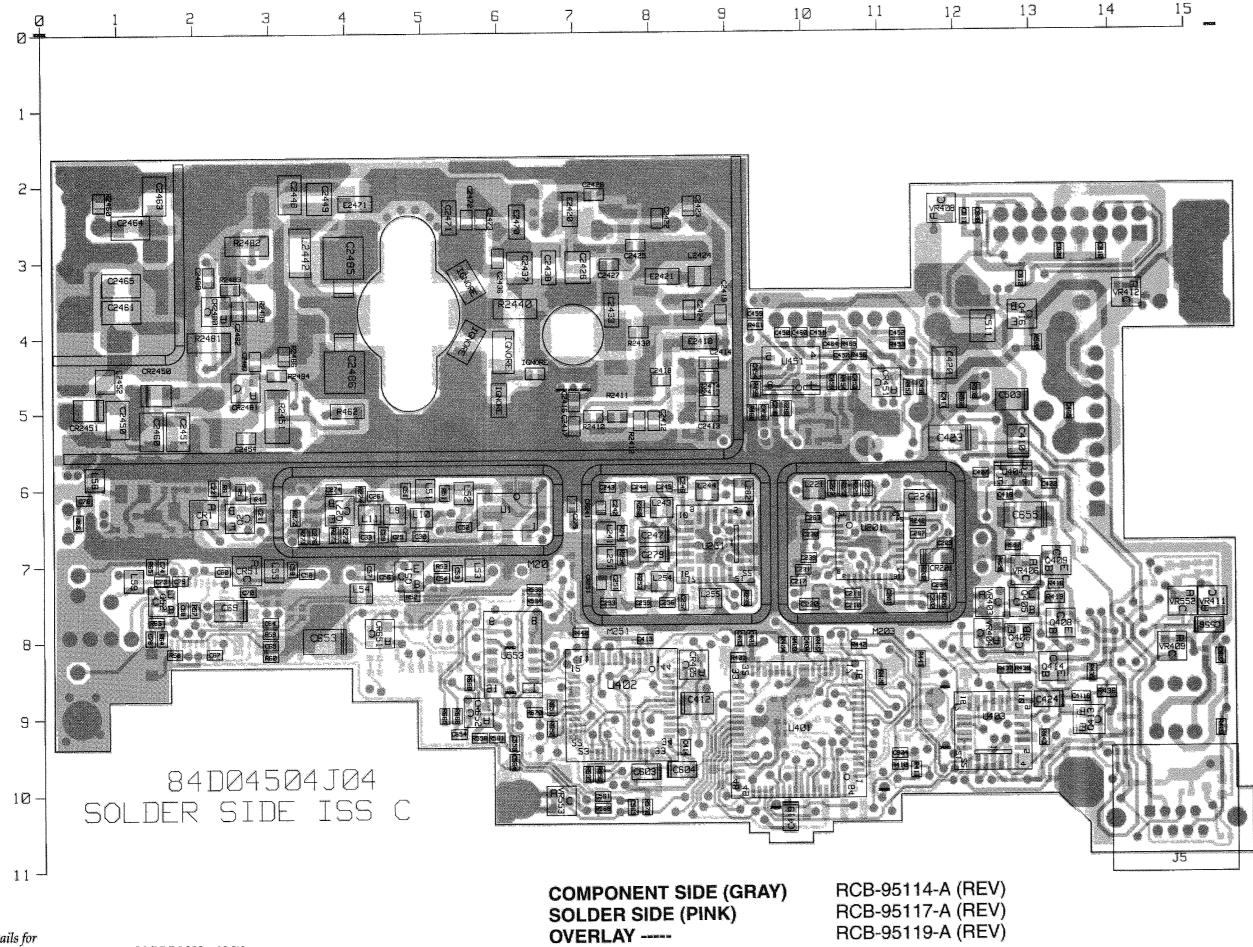




COMPONENT SIDE VIEW

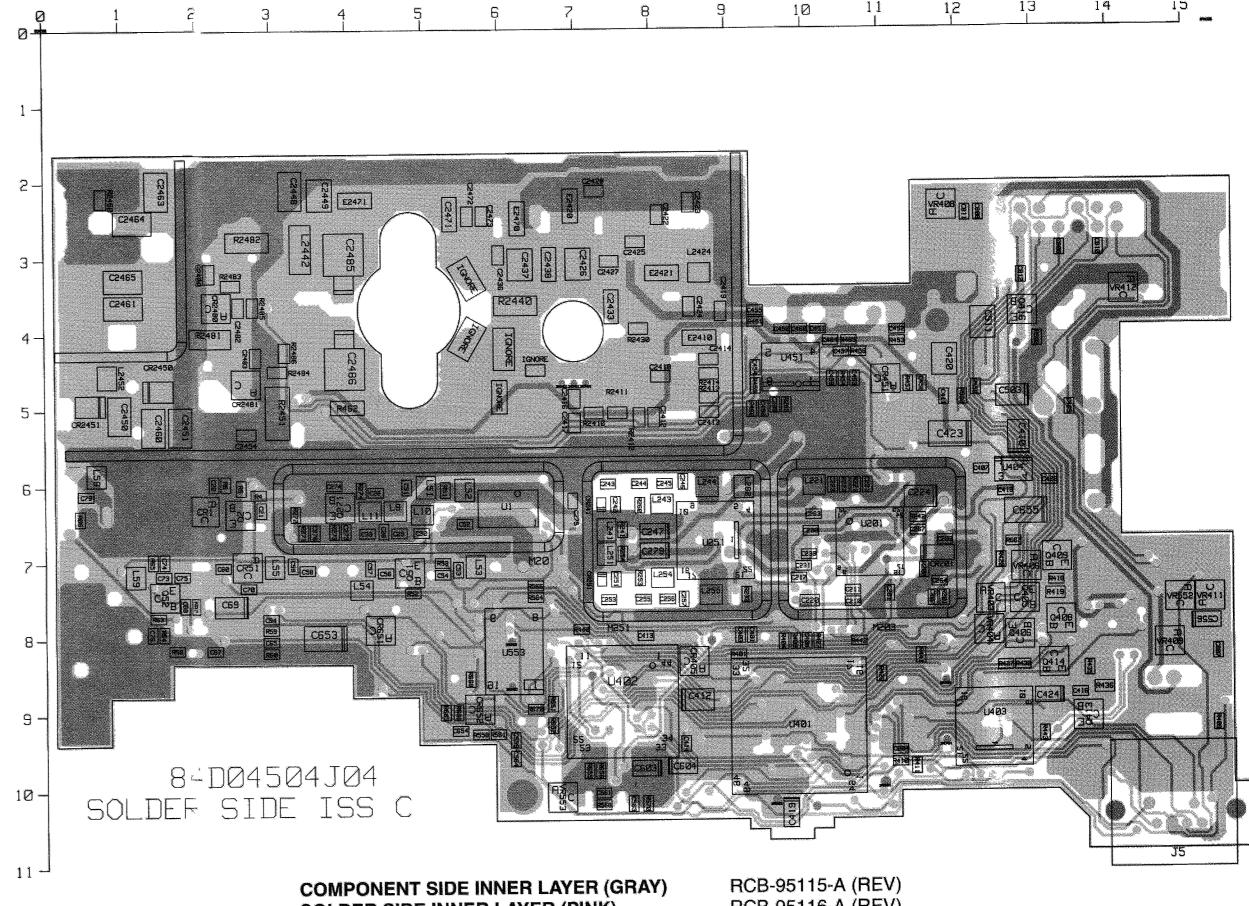
RCB-95118-A

Circuit Board Details for VHF Main Boards, 150-170 MHz, 12.5 & 20/25/30 kHz, 40 W (Part of PMUD1067B, PMUD1068B, PMUD1088B, PMUD1089B Radios)



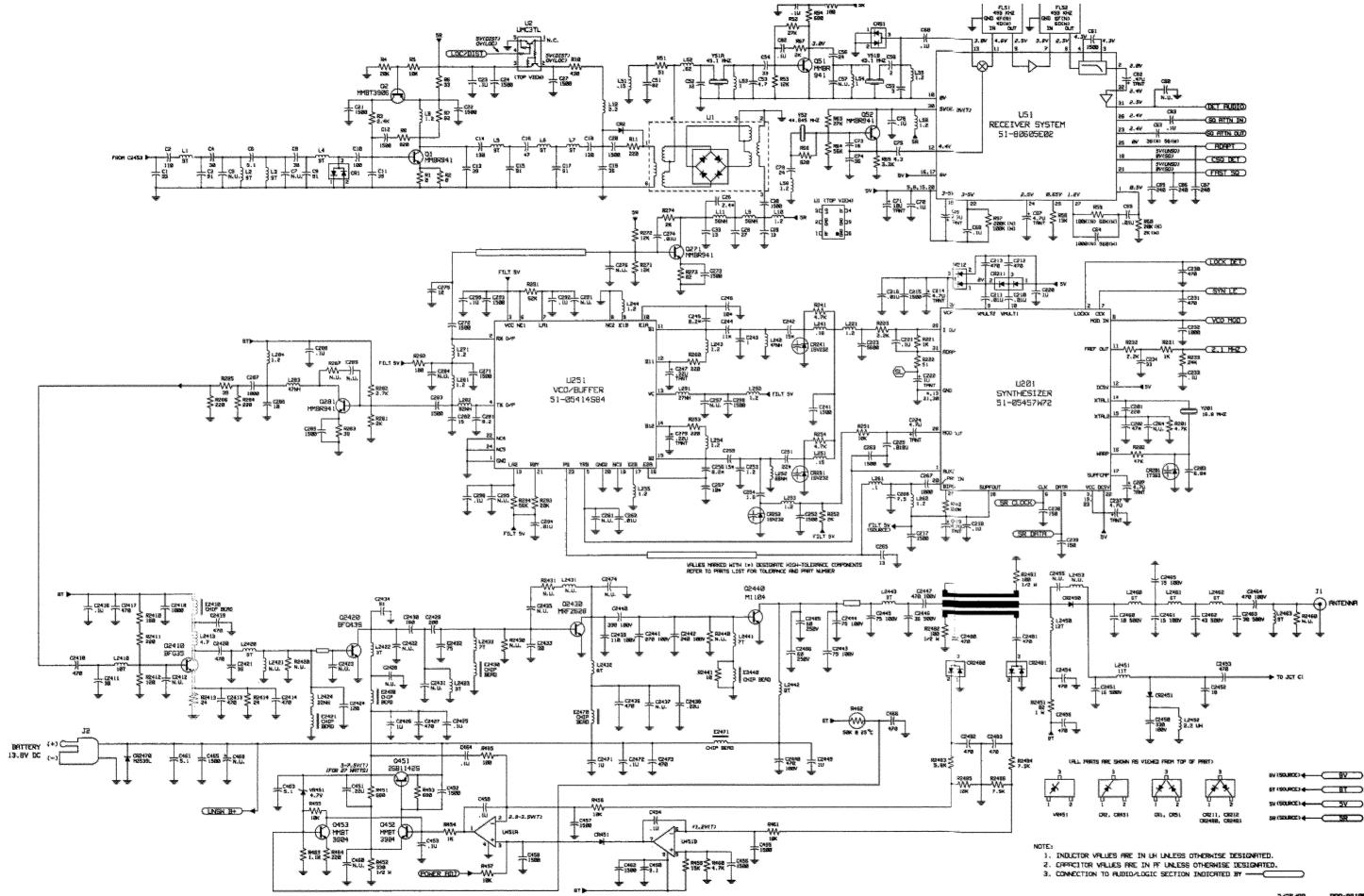
Circuit Board Details for VHF Main Boards, 150-170 MHz, 12.5 & 20/25/30 kHz, 40 W (Part of PMUD1067B, PMUD1068B, PMUD1088B, PMUD1089B Radios)

SOLDER SIDE VIEW



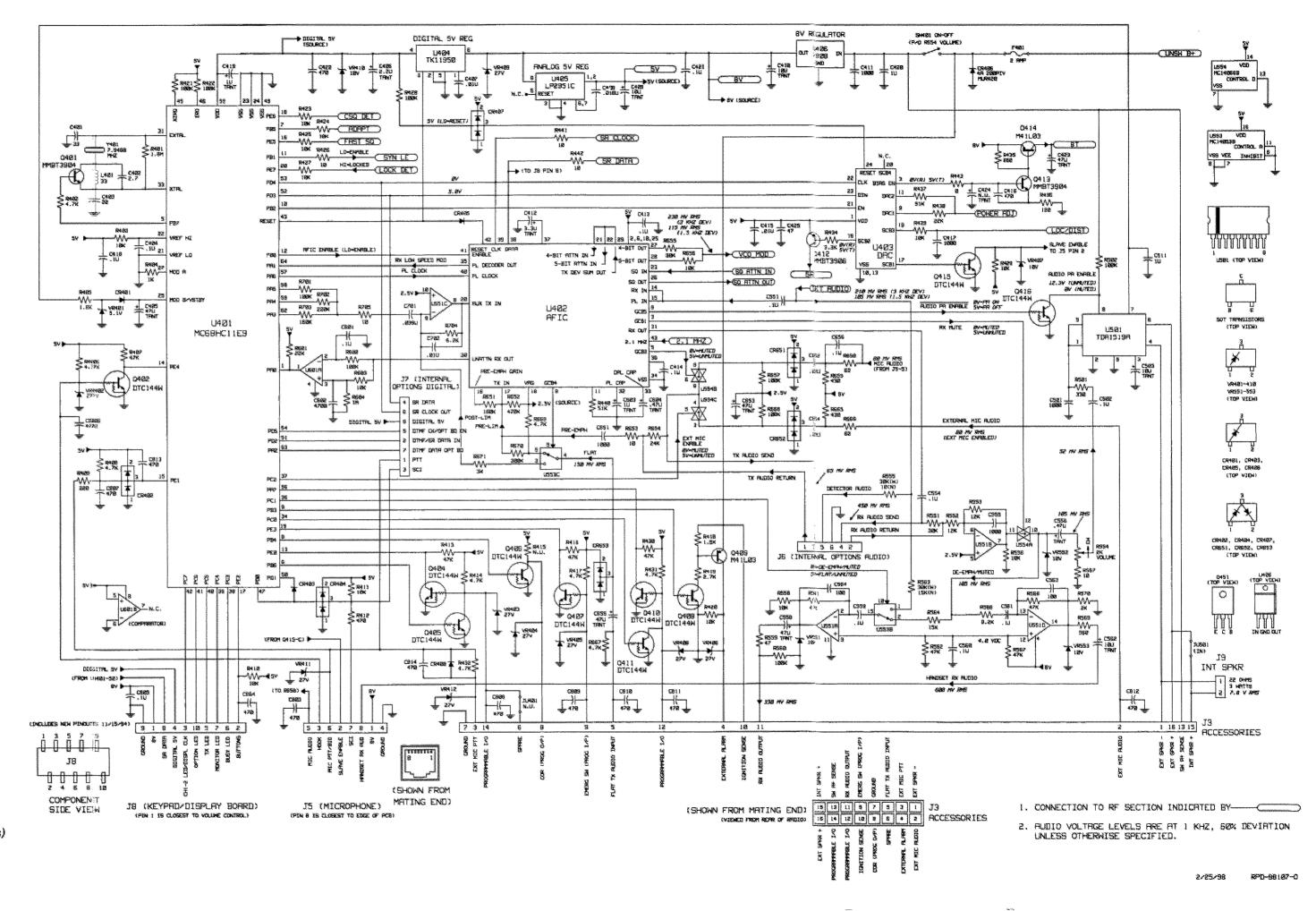
COMPONENT SIDE INNER LAYER (GRAY)RCB-95115-A (REV)SOLDER SIDE INNER LAYER (PINK)RCB-95116-A (REV)OVERLAY -----RCB-95119-A (REV)

SOLDER SIDE VIEW



2/25/9

Schematic Diagrams for VHF Main Boards, 150-170 MHz, 12.5 & 20/25/30 kHz, 40 W (Part of PMUD1067B, PMUD1068B, PMUD1088B, PMUD1089B Radios) (Sheet 1 of 2)



Schematic Diagrams for VHF Main Boards, 150-170 MHz, 12.5 & 20/25/30 kHz, 40 W (Part of PMUD1067B, PMUD1068B, PMUD1088B, PMUD1089B Radios) (Sheet 2 of 2)

Parts List

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088) 3M50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W) (later version) (used in PMUD1068 & PMUD1089) PL-981003-O

REFERENCE MOTOROLA REFERENCE MOTOROLA SYMBOL PART NO. DESCRIPTION capacitor, fixed: uF +/-5%; 50 V: C233 unless otherwise stated C234 C237 21-13740L15 7.5 ±0.1 pF 21-13740L14 6.8 ±0.1 pF C238, 239 C241 21-13740L06 3.3 ±0.1 pF C242 11 nF 2% 21-137401 19 C243 C244 21-13740L07 3.6 ±0.1 pF 21-13740L13 6.2 +0.1 21-13740L19 11 pF 2% 21-13740L03 24+01 pF 21-13740L07 3.6 ±0.1 pF 21-13740L15 7.5 ±0.1 p C11, 12 21-13740F60 240 nF 21-13740L05 3.0.±0.1 pF 21-13740L15 75+01 nF C15 21-13740L10 47+0.1 pl C16 21-13740L21 13 pF 2% C18 21-13740L09 43+01 nF C19 21-13740L10 47+01n C20 21-13740L23 16 pF 2% C21 21-13740L09 43+0.1 pF C22 C23 21-13740L08 39+01r 21-13740L21 13 pF 2% C24 C25 C26 C27 21-13740L10 47+010 21-13740L08 3.9 ±0.1 pl 21-13740L01 2.0 ±0.1 pf 21-13740F60 240 p C28 C29 21-13740F29 12 pF 21-13740F31 C30 C33 C51 21-13740F60 240 nF 21-13740F05 1.2 ±0.25 pF 21-13740F49 82 pF C52 C53 C54 C55 21-13740F29 21-13740F19 4,7 ±0.25 pF 21-13740F39 33 oF 0.1 uF 10%; 16 V 21-13743E20 21-13740F36 C56 C57 C58 24 pF 21-13740F10 2 ±0.25 pF 21-13740F14 3 ±0.25 pF C59 21-13743E20 0.1 uF 10%; 16 V C60 C61 21-13741F29 1500 pF tantalum 0.47 uF 10%; 25 V C62 C63(N) C63(W) 23-11049A05 21-13740F40 36 pF 21-13740F45 56 nF C64(N) C64(W) C65 21-13740F69 560 p 21-13741F25 1000 pF .01 uF 21-13741F49 tantalum 4.7 uF 10%: 16 V 22.11040.111 C67 21-13743E20 0.1 uF 10%; 16 V tantalum 3.3 uF 10%: 20 V 23-11049-07 21-13743E20 0.1 µF 10%: 16 V tantalum 10 uF 10%; 16 V 23-11049A57 21-13740F32 16 pF 21-13740F40 36 pF 21-13740F18 4.3 +0.25 pF 21-13743E20 0.1 uF 10%; 16 V 21-13740F36 24 pF 21-13743E20 0,1 uF 10%; 16 V C85 thru 87 21-13740F60 240 pF 21-13740F59 220 pF C201 C202 C203 21-13740L34 47 pF 2% 21-13740L14 6.8 ±0.1 pF tantalum 4.7 uF 10%; 16 V 23-11049J11 C207 21-13741F49 C210, 211 Ot oF 21-13741F17 470 pF C212, 213 tantalum 4.7 uF 10%; 16 V 23-11049.111 C214 21-13741F25 1000 pl C215 21-13741F49 .01 ul C216 C217 21-13740F60 240 nF C218 C219 21-13741F25 1000 pF tantalum 4.7 uF 10%; 16 V 23-11049-111 C220 C221 21-13928E01 1 uE 10%: 10 V 21-13743E20 0.1 UE 10%: 16 V C222 23-11049A07 tantalum 1 uF 10%; 16 V 21-13741F43 5600 pF tantalum 4.7 uF 10%; 16 V 23-11049,111 21-13743E05 .018 uF 10%; 16 V 21-13740F60 240 pF C230, 231 21-13741F25 1000 pF C232

C245 C246 5.6 ±0.1 pF 21-137401 12 21-13740L13 6.2 ±0.1 pF tantalum .22 uF 10%; 35 V C247 C251 23-11049A03 21-13740L16 8.2 ±0.1 pF C252 21-13740F60 240 pF 1.5 ±0.25 pF C253 21-13740F07 C254 C255 1 ±0.25 pF 21-13740F03 18 nF 2% 21.137401 24 6.2 ±0.1 pF C256, 257 21-13740L13 91.19740F60 240 pl C261 C262 C263 C264 thru 266 .01 uF 21-13741F49 21-13740F60 240 pF Not Use 21-13740F60 240 pF C271, 272 21-13740F60 240 pF 21-13740F41 - 39 pF C273 C274 C275 C276 C279 C281 C282 C283 C283 C284 C285 C286 C286 C287 21-13741F49 _____01___uF 21-13740F18 4.3 +0.25 of 21-13740F25 8.2 ±0.25 pF tantalum 0.22 uF 10%; 35 V 23-11049A03 21-13740F22 6.2 ±0.25 pF 21-13740F34 20 pF 21-13740F60 240 pF 21-13741F49 .01 uF 21-13740F47 68 pF 21-13740F47 68 pF C288 C289 21-13743E20 0.1 uF 10%; 16 V Not Used C291 C292, 293 Not Used 21-13740F60 240 pF .01 uF 21-13741F49 C294 C295 240 pF 21-13740F60 C296 C297 Not Used 21-13740F60 240 pF 21-13743E20 0.1 uF 10%; 16 V C298, 299 21-13740E39 33 pF 21-13740F13 2.7 ±.25 pF C402 C403 21-13740F35 22 pF 21-13743E20 0.1 uF 10%; 16 V C404 tantalum 47 uF 10%; 10 V C405 C406 C407 23-11049.143 23-11049A40 tantalum 2.2 uF 10%; 10 V 21-13741F49 O1 UF C408 C409 C410 21-13743E05 .018 uF 10%; 16 V tantalum 10 uF 10%; 16 V 23-11049A57 23-11049A57 tantalum 10 uF 10%; 16 V C411 21-19741F25 1000 pF tantalum 3.3 uF 10%; 20 V C412 23-11049J07 C413, 414 21-13743E20 0.1 uF 10%; 16 V C415 21-13741F49 .01 uF C416 C417 21-13741F17 470 pF 21-13741F25 1000 p C418 C419 0.1 uF 10%; 16 V 21-13743E20 23-11049A07 tantalum 1 uF 10%; 16 V C420 C421 C422 C423 21-13741W01 1 uF 10%; 25 V 21-13743E20 0.1 uF 10%; 16 V 21-13741F17 470 pF 23-11049J43 tantalum 47 uF 10%; 10 V C424 C425 Not Used 21-13740F43 47 pF 9.1 ±0.25 pF C450 C451 21-13740F26 Not Lised 21-13740F60 240 pF C453, 454 21-13743E20 0.1 uF 10%: 16 V C455 thru 457 21-13740F60 240 pF 21-13741F25 1000 pF 21-13743E20 0.1 uF 10% 16V C459 Not Llead 21-13740F20 C46 5.1 ±0.25 pF 21-13740F60 240 nF 5.1 ±0.25 pF C463 21-13740F20 21-13743E20 0.1 uF 10%; 16 V 21-13741F17 470 pF

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088)

DESCRIPTION

tantalum 4.7 uF 10%; 16 V

SM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W) PL-981003-0 (later version) (used in PMUD1068 & PMUD1089)

21-13743E20 0.1 uF 10%; 16 V

21-13740L16 8.2 ±0.1 pF

33 pF

240 pF

7.5 ±0.1 pF

2.4 ±0.1 pF

240 pF

21-13740F39

23-11049J11

21-13740F60

21-13740F60

21-13740L15

21-13740L03

SYMBOL PART NO.

(later version) (used SM50/SM120 VHF M	Aain Board, 150-1	70 MHz 40 W, 20/25/30 KHz (W)
(later version) (used	In PMUD1068 &	PMUD1089) PL-981003-O
SYMBOL	PART NO.	DESCRIPTION
C466 C468	21-13740A59	150 pF Not Used
C501	21-13741F25	1000 pF
	21-13743E20 23-11049A57	0.1 uF 10%; 16 V tantalum 10 uF 10%; 16 V
	21-13741W01	1 uF 10%; 25 V
44	21-13743E20 21-13743E20	0.1 uF 10%; 16 V 0.1 uF 10%; 16 V
	21-13741F25	1000 pF
C556	23-11049A05 23-11049J43	tantalum 0,47 uF 10%; 25 V tantalum 47 uF 10%; 10 V
C558 C559 thru 561	21-13743E20	0.1 uF 10%; 16 V
C562	23-11049A57 21-13740F51	tantalum 10 uF 10%; 16 V 100 pF
C563, 564 C601	21-13743E20	0.1 uF 10%; 16 V
C602	21-13741F41 23-11049A07	4700 pF tantalum 1 uF 10%; 16 V
C603 C604	23-11049A07	tantalum .47 uF 10%; 25 V
C651	21-13741F25 21-13743K16	1000 pF 0.22 uF +80/-20%; 16 V
C652 C653	23-11049J43	tantalum 47 uF 10%; 10 V
C654	21-13743K16	0.22 uF +80/-20%; 16 V tantalum 47 uF 10%; 10 V
C655 C656	23-11049J43 21-13743E20	0.1 uF 10%; 16 V
C701	21-13743E11	.039 uF 10%; 16 V
C702 C803, 804	21-13741F49 21-13741F17	.01 uF 470 pF
C805	21-13743E20	0.1 uF 10%; 16 V
C806 thru 814 C2610	21-13741F17 21-13740A30	470 pF 11 pF
C2611	21-13740A29	10 pF
C2612 C2613, 2614	21-13740A33 21-13740A79	15 pF 1000 pF
C2615	21-13740A24	6.8 ±0.25 pF
C2616	21-13740A59 21-13743A19	150 pF 0.1 uF 10%; 16 V
C2617, 2618 C2619	21-13740A59	150 pF
C2620	21-13740A33	15 pF
C2621 C2622, 2623	21-13740A39	27 pF Not Used
C2626	21-13741W01	1 uF 10%; 25 V
C2627 C2628	21-13740A79 21-13740A59	1000 pF 150 pF
C2629		Not Used
C2630 C2631, 2632	21-13740A39 21-13740B32	27 pF 20 pF
C2636	21-13740A59	150 pF
C2637 C2639	21-13741W01	1 uF 10%; 25 V Not Used
C2640	21-11078B32	39 pF 100V
C2641, 2642 C2643, 2644	21-11078B35 21-80964X35	51 pF 100 V clamped mica 39 pF 250 V
C2645	21-11078B16	13 pF 100 V
C2646 C2647	21-80060M15 21-80060M34	8 ±0.5pF 500 V 43 pF 500 V
C2648	21-13740B49	100 pF
C2649 C2650	21-13741W01 21-80060M33	1 uF 10%; 25 V 39 pF 500 V
C2652	21-13740A10	2 ±0.25 pF
C2653	21-13740A36	20 pF 100 pF
C2654 thru 2656 C2660	21-13/40849 21-80060M13	7 ±0.5 pF 500 V
C2661	21-11078B05	4.7 ±0.25 pF 100 V
C2662 C2663	21-80060M22 21-80060M11	13 pF 500 V 6 ±0.5 pF 500 V
C2664	21-80060M43	100 pF 100 V
C2665 C2671	21-11078B05 21-11032B15	4.7 ±0.25 pF 100 V 0.22 uF +80/-20%
C2672	21-13740A79	1000 pF
C2673 C2680 thru 2683	21-13740A59 21-13740A59	150 pF 150 pF
02000 110 2000	21 101 407 600	
CR1	48-80154K03	diode: (see note) dual Schottky SOT
CR2	48-80142L01	silicon PIN SOT MMBV3401
CR51 CR201	48-80154K03 48-02245J22	dual Schottky SOT silicon varactor SOT 1T363
CR201 CR211	48-02245322 48-13833C07	dual silicon SOT MMBD7000
CR212	48-05218N57	dual silicon SOT silicon varactor SOT 1SV229
CR241 CR251	48-62824C01 48-62824C01	silicon varactor SOT 1SV229

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N)

(later version) (used in PMUD1067 & PMUD1088)

L2620

L2622

L2630

SIM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088)

SIM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W)

PL-981003-O (latter version) (used in PMUD1068 & PMUD1089) REFERENCE MOTOROLA PART NO DESCRIPTION SYMBOL CB252 48-62824C01 silicon varactor SOT 1SV229 CR401 CR402 CR403 CR404 CR405 48-05129M76 silicon SOT dual silicon SOT MMBD7000 48-13833007 48-80939T01 Schottky SOT 48-13833C07 dual silicon SOT MMBD7000 48-05129M76 silicon SOT CR406 CR407 CR408 CR451 48-83553T02 4A 200 PIV MUR420 48-13833C07 dual silicon SOT MMBD7000 48-05129M76 silicon SOT 48-05129M76 silicon SOT CR651 thru 653 48-13833C07 dual silicon SOT MMBD7000 silicon PIN MA4P1250 CR2650, 2651 48-02482J02 48-80236E07 transient suppressor CR2670 CR2680, 2681 48-82290T02 dual Schottky SOT HSMS-2802 errite beads 24-84657R01 E2610 ferrite bead 24-84657R01 ferrite bead E2620 2621 24-84657B01 ferrite beac E2630 ferrite bead 24-84657R01 E2670, 2671 ferrite beac 24-84657B01 F401 65-05214E04 2 ampaxial lead 91-80098D04 455 kHz 4F FL51(N) FL51(W 91-80098D06 455 kHz 4D FL52(N) 91-80097D04 455 kHz 6E FL52(W) 91-80097D06 455 kHz 6D connector, receptacle 09-80627E01 mini UHF coax power cable assembly (includes J2) 30-04510J01 28-04503J01 16-pin, accessories telephone type, 8 contact, microphone 09-04426J01 09-04424J01 6-pin, internal options audio 09-04424J03 8-pin, internal options digital 09-04422J01 10-pin, display board 28-04423J01 2 pin, internal speaker JU401 Not Used 06-62057B47 JU501 iumper coil rf: 24-84562T11 4 turns airwound 2% L1 thru 7 24-62587X55 chin 0.15 uH 5% 24-62587843 chip 15 nH 5% 24-83411T63 0 15 uH 5% shielded L10 24-62587X49 chip 47 nH 5% L11 24-62587X55 chip 0.15 uH 5% L12 L51 24-62587X55 chip 0.15 uH 5% L52 L53, 54 24-62587X63 chip 0.62 uH 5% chip 1 uH 5% 24-62587X68 chip 1.2 uH 5% 24-62587X69 L55 L58, 69 24-62587X69 chip 1.2 uH 5% L221 L241 L242 L243, 244 chip 0.39 uH 5% 24-62587X60 chip 56 nH 5% 24-62587X50 24-84562T11 4 turns airwound 2% 24-62587X61 chip 0.47 uH 5% chip 47 nH 5% L251 L252 L253 thru 25 24-62587X49 3 turns airwound 29 24-84562T13 chip 0.39 uH 5% 24-62587X60 chin 22 nH 5% L261 24-62587X45 chip 0.39 uH 5% L262 24-62587X60 L271 L281 24-62587X61 chip 0.47 uH 59 chip 0.39 uH 5% 24-62587X60 L282 24-62587X43 chip 15 nH 5% L283 L284 24-62587X47 chip 33 nH 5% 24-62587X60 chip 0.39 uH 5% L291 L292 L401 24-62587X43 chip 15 nH 5% 24-62587X60 chip 0.39 uH 5% 24-60578C43 chip 33 uH L2610 24-60591A01 3 turns L2611 24-60591C73 5 turns L2612 24-60591B17 4 turns L2613 24-60591B73 4 turns

24-62587T40 chip 33 nH 5%

24-62587T40 chip 33 nH 5%

24-60591E73 7 turns

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088) SM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W)

SYMBOL PART NO.

24-60591G73

24-60591E73

24-60591E69

24-60591A13

24-60591V77

24-60591B77

24-11087B22

24-60591R53

24-60591X01

24-60591R53

48-13827A07

48-13827A07

48-13827A07

48-13827A07

48-80214G02

48-80947V01

48-80947V01

48-80141L03

48-80947V01

48-13824A17

48-80947V01

48-02245.125

48-80214G02

48-02245.124

48-80225C09

06-62057A59

06-62057A80

06-62057A73

06-62057A13

06-62057A37

06-62057C63

06-62057A18

06-62057A83

06-62057A75

06-62057A25

06-62057A45

06-62057B05

06-62057A76

06-62057A97

06-62057A93

06-62057A80

06-62057456

06-62057A83

06-62057A91

06-62057A61

06-62057A47

06-62057A56

06-62057A57

06-62057A89

06-62057A23

06-62057A61

06-62057A49

06-62057A57

06-62057A82

06-62057B06

06-62057A77

06-62057A52

06-62057A33

06-62057A33

06-62057A75

06-62057A69

06-62057A49

06-62057447

06-62057A32 200

06-62057A59 2.7k

06-62057415 39

06-62057A37 330

06-62057A57

13k

684

- 3 3k

820

3 32

47k

3.3k

2201

820

06-62057A97

06-62057A40

48-80214G02

48-80141L03

12632

L2641

1.2642

L2643

L2650

L2651

L2652

L2653

L2660

L2663

Q51.52

Q271

Q281 Q401 Q402

Q412

Q413

Q414

Q404 thru 408 Q409

Q410, 411

Q415, 416

Q451 Q452, 453

Q2610

Q2620 Q2630 Q2640

R11

R54

R66

R57(N)

R57(W)

R59(N) R59(W)

R60(N) R60(W)

R63

R202

R222

R231

R232

R233

B251

R252 R253

R260

R271

R272 R273

R274 R281

R282 R283 R284

01

L2661, 2662

PL-981003-O (later version) (used in PMUD1068 & PMUD1089) REFERENCE MOTOROLA

DESCRIPTION 9 turns 7 turns 7 turns 3 turns 12 turns 4 turns chip 0.47 uH 8 turns 24-60591X01 3 turns 3 turns 8 turns transistor: (see not NPN: type MMBR94* 48-13824A17 PNP; type MMBT3906 NPN; type MMBR941 NPN; type MMBR941 NPN; type MMBR941 NPN; type MMBT3904 digital NPN; type DTC144W digital NPN; type DTC144W PNP; type BCW68G digital NPN; type DTC144W PNP; type MMBT3906 NPN; type MMBT3904 PNP; type BCW68G digital NPN; type DTC144W PNP: type 2SB1142S NPN⁻ type MMBT3904 NPN: type BFG35 NPN: type MRF63 48-80225C19 NPN; type MRF654 48-80225C24 NPN; type MRF650 resistor, fixed: +/-5%; 1/16 W: unless otherwise stated 2.7k 330 1/10 wal

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088) SM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W) (later version) (used in PMUD1067 & PMUD1088) SM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W)

SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
1285	06-62057A05	16	R652	06-62057B14	470k
1286	06-62057A37	330	R653	06-62057A01	10
1287	***	Not Used	R654	06-62057A82	24k
1291	06-62057A84	30k	R655	06-62057A84	30k
292	06-62057A25	100	R656	06-62057A73	10k
1293	06-62057A81	22k	R657	06-62057A97	100k
1294		30k		06-62057A20	62
	06-62057A84		R658		
7401	06-62057B28	1.8 meg	R659	06-62057A40	430
7402	06-62057A65	4.7k	R665	06-62057A40	430
3403	06-62057A73	lÖk	R666	06-62057A20	62
7404	06-62057A49	18	R667	06-62057A65	4.7k
7405	06-62057C81	1.8k 1/10 wall	R668	06-62057A97	100k
7406	06-62057A65	4.7k	R669	06-62057A65	4.7k
7407	06-62057A89	47k	R670	06-62057B09	300k
9408	06-62057A65	4.7K	R671	06-62057A60	3k
9409	06-62057A33	220	R701	06-62057A97	100k
7410, 411	06-62057A73	10k	R702	06-62057B06	220k
9412	06-62057A41	470	R703	06-62057B03	160k
R413					
	06-62057A89	47k	R704	06-62057A68	6.2k
R414	06-62057A65	4.7k	R705	06-62057A01	10
R415	-	Not Used	R2610	06-62057057	180 1/10 watt
R416	06-62057A89	47k	R2611	06-62057C59	220 1/10 watt
R417	06-62057A65	4.7k	R2612	06-62057C53	120 1/10 watt
R418	06-62057A53	1.5k	R2613, 2614	06-62057C36	24 1/10 watt
R419	06-62057C85	2.7k 1/10 watt	R2615, 2616		Not Used
R420	06-62057A73	10k			Not Used
			R2620, 2621		
R421, 422	06-62057A97	100k	R2640	06-62057C27	10 1/10 watt
R423 thru 425	06-62057A73	10k	R2651	06-80194M23	82 1 watt
R426	06-62057A01	10	R2660	***	Not Used
R427	06-62057A73	10k	R2675	06-62057C27	10 1/10 watt
R428	06-62057A97	100k	R2681, 2682	06-80195M25	100 1/2 watt
R429	06-62057A73	10k	R2683	06-62057C99	10k 1/10 watt
R430	06-62057A89	47k	R2684	06-62057C96	7.5k 1/10 watt
R431, 432		4.7k			
	06-62057A65		R2685	06-62057C89	3.9k 1/10 watt
R434	06-62057A61	3.3k	R2686	06-62057C96	7.5k 1/10 watt
R435	06-62057A45	680			
R436	06-62057A27	120			integrated circuit: (see note)
R437	06-62057A90	51k	U1	51-80505D01	double-balanced mixer
R438	06-62057A81	22k	U2	48-09939C04	dual transistor switch UMC3TL
R439	06-62057A73	10k	U51	51-80605E02	receiver system
R440	06-62057A90	51k	U201*	(see note)	synthesizer
R441, 442	06-62057A01	10			
			U251	51-05414\$84	VCO/buffer
R443	06-62057B47	0	U401	51-99010D01	microcomputer MC68HC11E9
R451	06-62057A45	680	U402	51-80604E01	audio filter
R452	06-80195M37	330 1/2 watt	U403	51-05226P38	DAC
R453	06-62057A45	680	U404	51-80633C01	5 V regulator TK11950
R454	06-62057A49	1k	U405	51-05469E65	5 V regulator LP2951C
R455 thru 457	06-62057A73	10k	U406	51-13816D03	8 V regulator MC7808BT
R459	06-62057A77	15k		A 1 A 1 I I I A 4 A 4 A	dual op-amp LM2904 SOIC
R460	06-62057A65	4.7k	U451	51-80932W01	
			U501	51-80147R01	audio power amp TDA1519C
R461	06-62057A73	10k	U551	51-02198J28	quad op-amp LM2902D SOIC
R462	06-05621T02	thermistor 50k @ 25 degrees C	U553	51-84704M60	triple 2-channel switch 4053B
R463	06-62057A45	680	U554	51-05663U35	quad analog switch 4066B
R464	06-62057A33	220	U601	51-02198J23	dual comparator LM2903 SOIC
R465	06-62057A25	100	মাধকাক⊺়		*
R501	06-62057A37	330			voltage regulator: (see note)
R502	06-62057A97	100k	VR401	48-80140L06	zener diode 5.1 V SOT
R551	06-62057A84	30k			zener diode 3.1 V SOT
			VR402 thru 406		
R552	06-62057A75	12k	VR407	48-80140L15	zener diode 10 V SOT
R553	06-62057A75	12k	VR408, 409	48-80948V01	zener diode 27 V SOT
R554	18-04405J01	variable 2k with switch	VR410	48-80140L15	zener diode 10 V SOT
R555(N)	06-62057A01	10	VR411, 412	48-80948V01	zener diode 27 V SOT
R555(W)	06-62057A84	30k	VR451	48-80140L15	zener diode 10 V SOT
R556	06-62057A73	10k	VR551 thru 553		zener diode 10 V SOT
R557	06-62057A01	10	***00 T KING 000		many state we cannot a find the first of
R558	06-62057A73	10k			anistali (san nata)
			16.2 at 2 Million		crystal: (see note)
R559	06-62057A17	47	Y51(N)	91-80112R06	filter 45.1 MHz 12.5 kHz
R560	06-62057A97	100k			(includes Y51A and Y51B)
R561, 562	06-62057A89	47k	Y51(W)	91-80112R05	filter 45.1 MHz 25 kHz
R563(N)	06-62057A77	15k			(includes Y51A and Y51B)
R563(W)	06-62057A84	30k	Y52	48-80606B02	44.645 MHz
R564	06-62057A77	15k			
R566			Y201*	(see note)	16.8 MHz
	06-62057A71	8.2k	Y401	48-80113R01	7.9488 MHz
R567, 568	06-62057A89	47k		non-rofa	renced items
R569	06-62057A43	560			
	06-62057A56	2k		14-05160A02	crystal insulator (for Y201)
R570		22k		26-04398J01	VCO/synthesizer shield (4 used)
R570 R601	LINEN ZUPA / APRIL			-লকা লগক সি সি সি সি	
R601	06-62057A81			26-04900 101	receiver mixer hottom chield
R601 R602	06-62057A97	100k		26-04399J01	receiver mixer bottom shield
R601				26-04399J01 26-04400J01 26-04419J01	receiver mixer bottom shield receiver front end top shield PA shield frame

SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N)

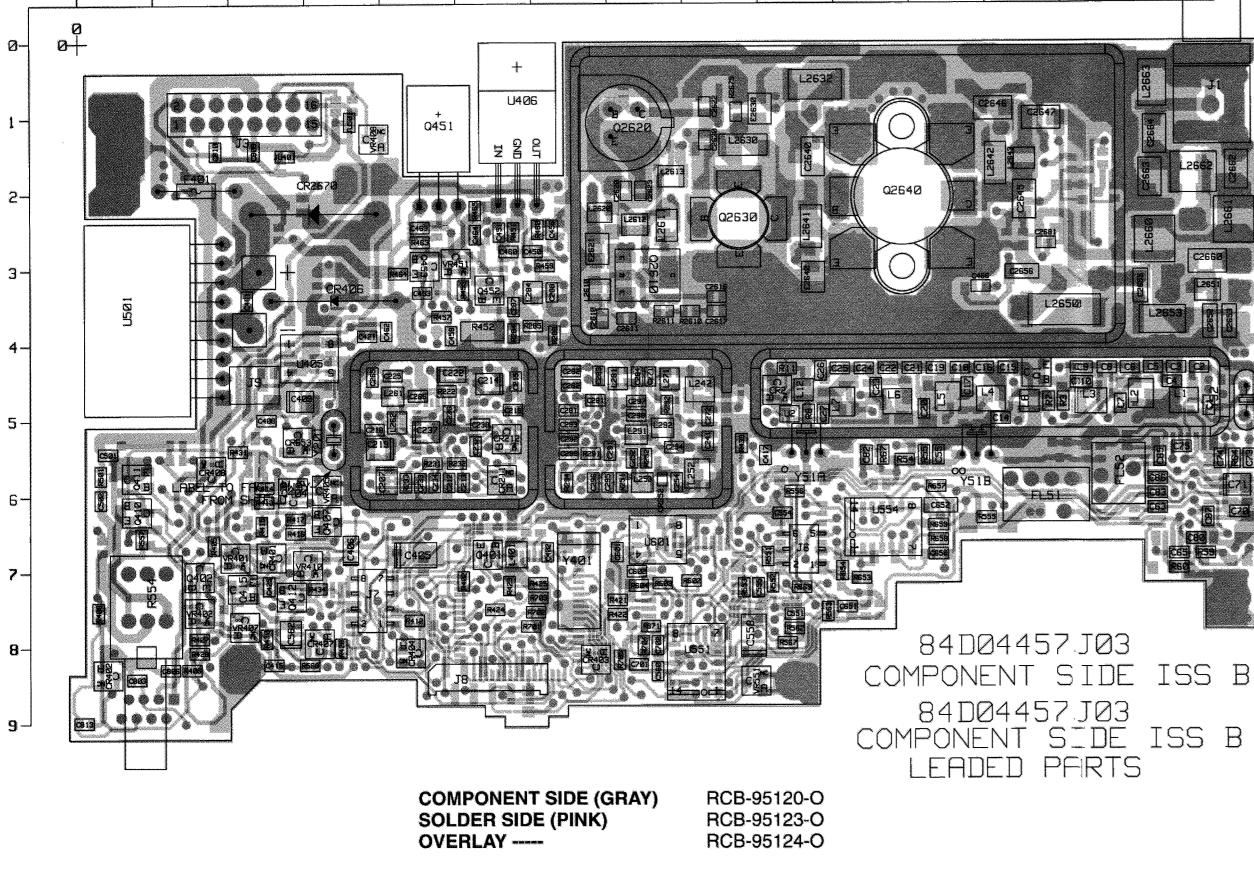
SM50/SM120 VHF Main Board, 150-170 MHz, 40 W, 12.5 kHz (N) (later version) (used in PMUD1067 & PMUD1088) SM50/SM120 VHF Main Board, 150-170 MHz 40 W, 20/25/30 kHz (W) (later version) (used in PMUD1068 & PMUD1089) PL-981003-0

REFERE	NCE	MOTOR	JLA					
SYMB	OL	PART N	10.		D	ESCRIP	TION	
		42-80281	L01	groun	d clip (2	2 used for	r Q2640)	ł

note: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part numbers

Designators marked with an (*) denote parts which are not field serviceable. Recalibration of the radio using specialized factory equipment is mandatory when these components are replaced in order to guarantee the specified frequency stability of the radio at temperature extremes.

COMPONENT SIDE VIEW





15

14

12

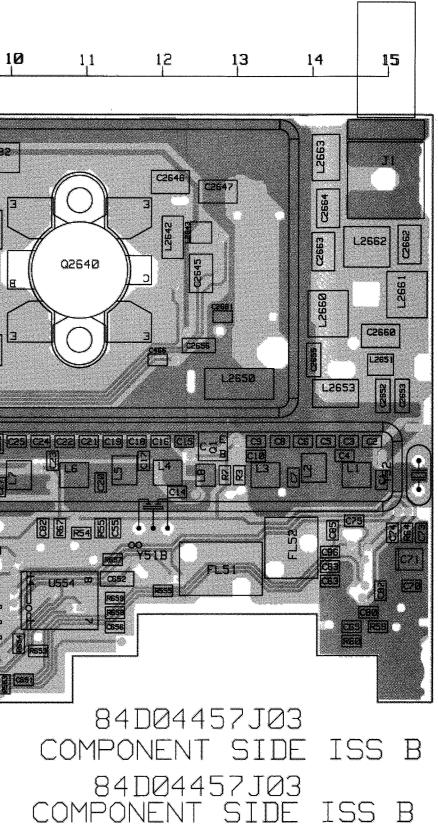
13

0-Ø 3-5 q

> COMPONENT SIDE INNER LAYER (GRAY) SOLDER SIDE INNER LAYER (PINK) OVERLAY -----

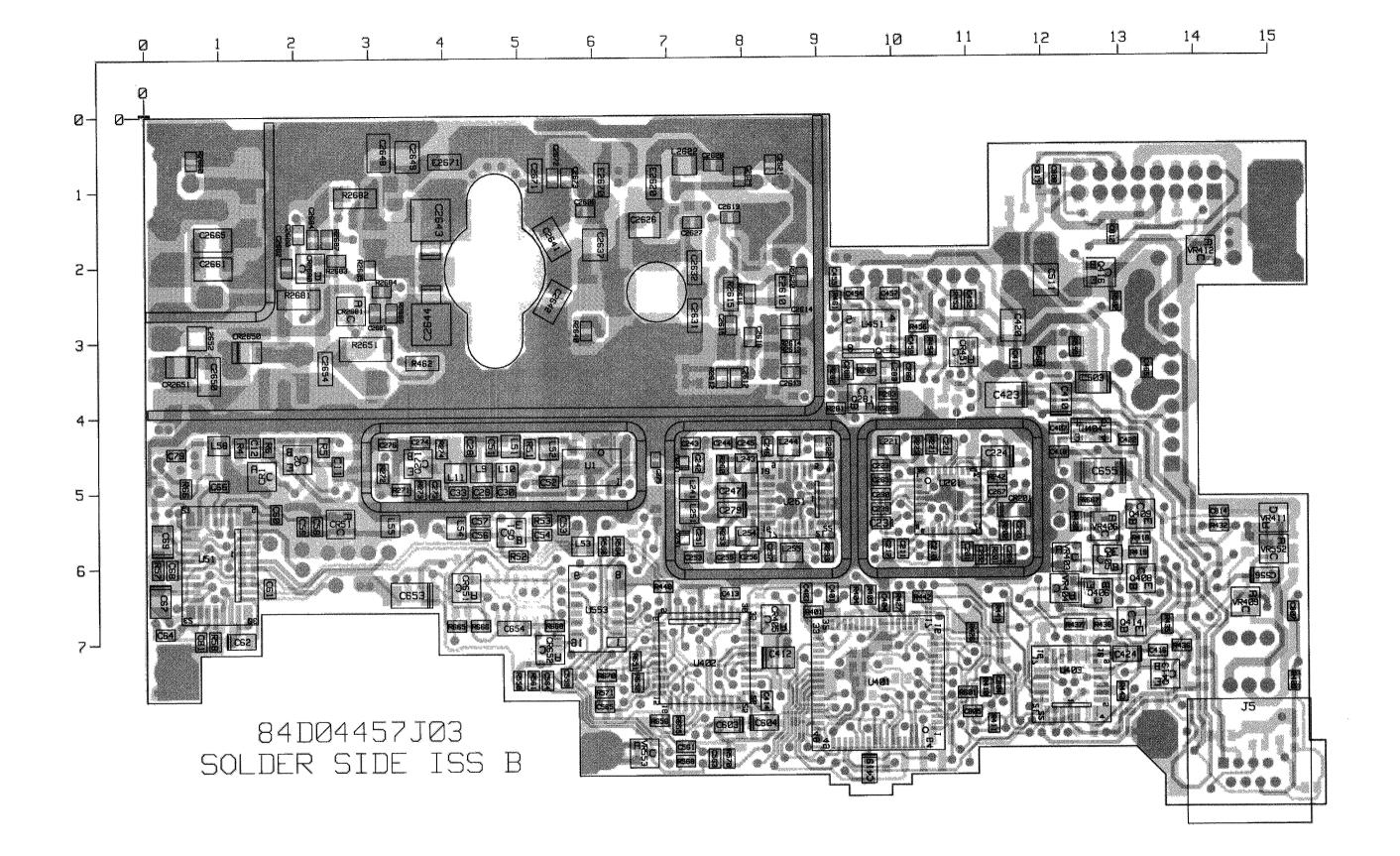
RCB-95121-O RCB-95122-O RCB-95124-0

COMPONENT SIDE VIEW



LEADED PARTS

Circuit Board Details for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 10-25 W (Part of PMUE1006A, PMUE1007A, PMUE1054A, and PMUE1055A Radios)



Circuit Board Details for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 10-25 W (Part of PMUE1006A, PMUE1007A, PMUE1054A, and PMUE1055A Radios)

SOLDER SIDE VIEW

COMPONENT SIDE (GRAY)

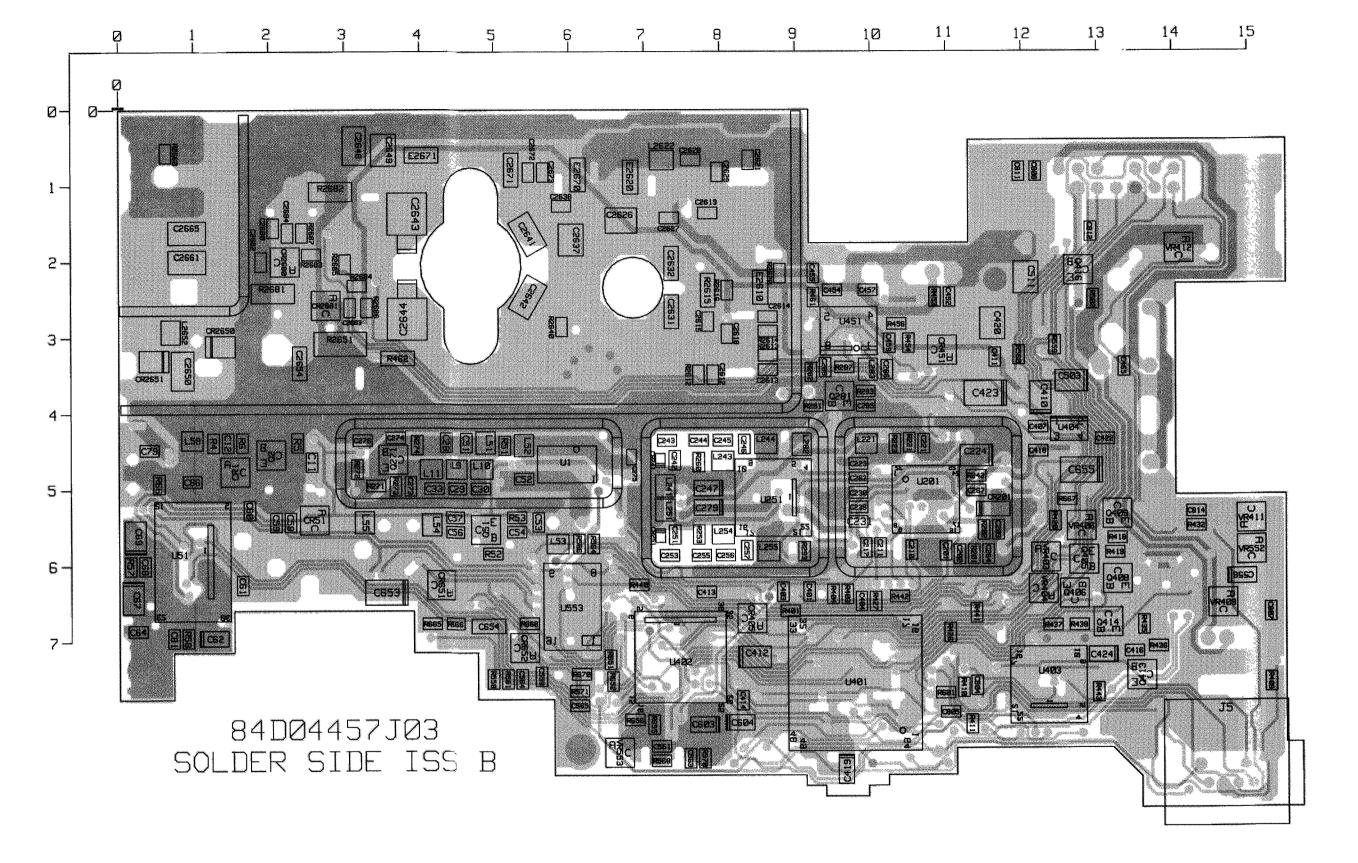
SOLDER SIDE (PINK)

OVERLAY -----

RCB-95120-0 (REV)

RCB-95123-O (REV) RCB-95125-O (REV)

26

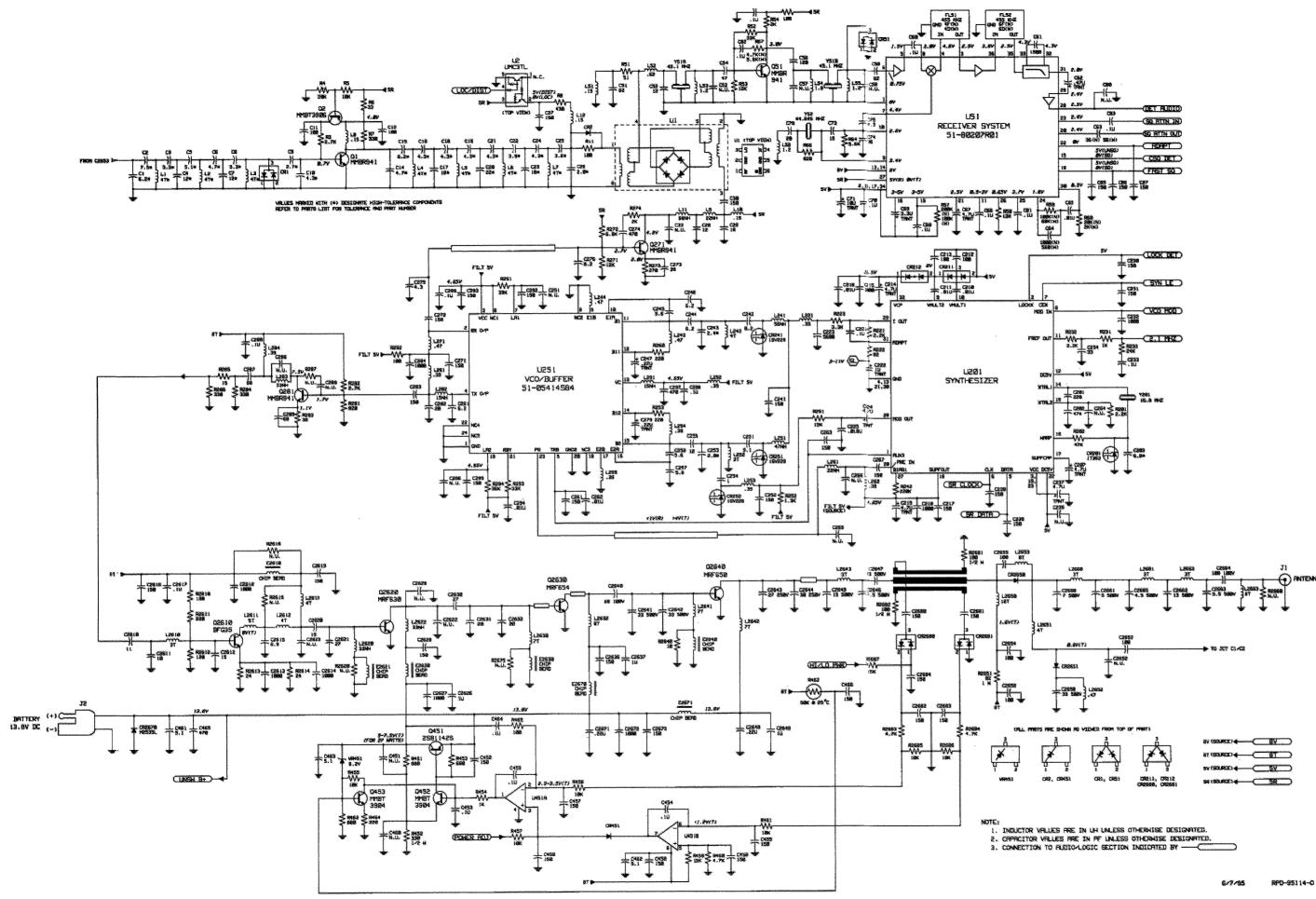


COMPONENT SIDE INNER LAYER (GRAY) SOLDER SIDE INNER LAYER (PINK) OVERLAY -----

SOLDER SIDE VIEW

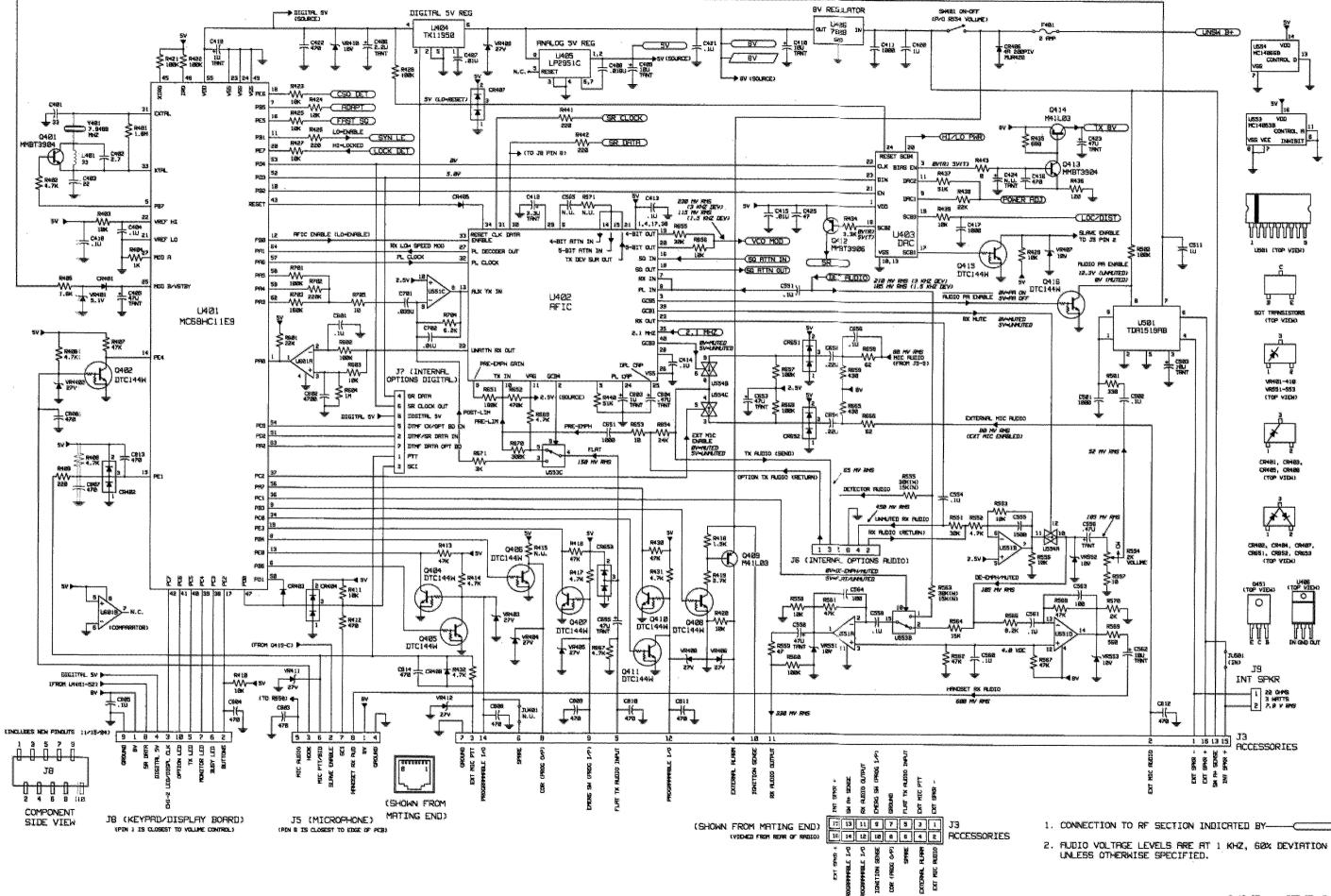
RCB-95121-O (REV) RCB-95122-O (REV) RCB-95125-O (REV)

يصبغه الله علاقي



Schematic Diagram for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 10-25 W (Part of PMUE1006A, PMUE1007A, PMUE1054A. and PMUE1055A Radios) (Sheet 1 of 2)

6880903Z45-A



Schematic Diagram for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 10-25 W (Part of PMUE1006A, PMUE1007A, PMUE1054A, and PMUE1055A Radios) (Sheet 2 of 2)

Parts List

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts 12.5 kHz (N) (used in PMUE1006 & PMUE1054) SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts PL-951011-A 20/25 kHz (W) (used in PMUE1007 & PMUE1055)

REFERENCE	MOTOROLA	DESCRIPTION
SYMBOL	PART NO.	capacitor, fixed: uF +/-5%; 50 V:
		unless otherwise stated
C1	21-13740G21	5.6 ±0.1 pF
C2	21-13740G24	6.8 ±0.1 pF 3.6 ±0.1 pF
C3 C4	21-13740G16 21-13740G30	11 pF 2%
Č5	21-13740G17	3.9 ±0.1 pF
C6	21-13740G23	6.2 ±0.1 pF
C7 C8	21-13740G28 21-13740G12	9.1 pF 2% 2.4 ±0.1 pF
C9	21-13740G13	2.7 ±0.1 pF
C10	21-13740G12	2.4 ±0.1 pF
C11, 12	21-13740A55	100 pF 3.0 ±0.1 pF
C14 C15	21-13740L05 21-13740G25	7.5 ±0.1 pF
C16	21-13740G18	4.3 ±0.1 pF
C17	21-13740G32	13 pF 2%
C18, 19	21-13740G18	4.3 ±0.1 pF 16 pF 2%
C20 C21	21-13740G34 21-13740G18	4.3±0.1 pF
C22	21-13740G17	3.9 ±0.1 pF
C23	21-13740G32	13 pF 2%
C24, 25	21-13740G18 21-13740G10	4.3 ±0.1 pF 2.0 ±0.1 pF
C26 C27	21-13740A59	150 pF
C28	21-13740A31	12 pF
C29	21-13740A35	18 pF 150 pF
C30 C33	21-13740A59	Not Used
C51	21-13740A53	82 pF
C52	21-13740A31	12 pF
C53		Not Used 47 pF
C54 C55	21-13740A46 21-13743A19	0.1 uF 10%; 16 V
C56	21-13740A57	120 pF
C57, 58		Not Used
C59	21-13740A53	82 pF 0.1 uF 10%; 16 V
C60 C61	21-13743A19 21-13741A25	1500 pF
C62	23-11049A05	tantalum 0.47 uF 10%; 25 V
C63(N)	21-13740A42	36 pF
C63(W)	21-13740A49 21-13740A79	56 pF 1000 pF
C64(N) C64(W)	21-13740A73	560 pF
C65	21-13741A45	.01 uF
C66	21-13743A19	0.1 uF 10%; 16 V tantalum 4.7 uF 10%; 16 V
C67 C68	23-11049J11 21-13743A19	0.1 uF 10%; 16 V
C69	23-11049J07	tantalum 3.3 uF 10%; 20 V
C70	21-13743A19	0.1 uF 10%; 16 V
C71	23-11049A57 21-13740A33	tantalum 10 uF 10%; 16 V 15 pF
C73 C74	21-13740A33 21-13740A42	36 pF
C75	21-13740A18	4.3 ±0.25 pF
C79	21-13740A36	20 pF
C80 C81 thru 83		Not Used 0.1 uF 10%; 16 V
C85 thru 87	21-13740A59	150 pF
C201	21-13740A63	220 pF
C202	21-13740G46	47 pF 2% 6.8 ±0.1 pF
C203 C207	21-13740G24 23-11049J11	6.8 ±0.1 pr tantalum 4.7 uF 10%; 16 V
C210, 211	21-13741A45	.01 uF
C212, 213	21-13740A55	100 pF
C214	23-11049J11	tantalum 4.7 uF 10%; 16 V 1000 pF
C215 C216	21-13740A79 21-13741A45	.01 uF
C217	21-13740A59	150 pF
C218	21-13740A79	1000 pF
C219	23-11049J11	tantalum 4.7 uF 10%; 16 V
C221 C222	21-13743A19 23-11049A07	0.1 uF 10% 16 V tantalum 1 uF 10%; 16 V
C223	21-13741A39	5600 pF
C224	23-11049J11	tantalum 4.7 uF 10%; 16 V
C225	21-13741A51	.018 uF
C230, 231 C232	21-13740A59 21-13740A79	150 pF 1000 pF
C232	21-13743A19	0.1 uF 10%; 16 V
C234	21-13740A41	33 pF
C236		Not Used

2237 23-11049J11 tantalum 4.7 uF 10%; 16 V 2238 21-13740A59 150 pF 2241 21-13740A59 150 pF 2242 21-13740A25 8.2 ±0.25 pF 2244 21-13740A23 6.2 ±0.25 pF 2245 21-13740A23 6.2 ±0.25 pF 2246 21-13740A23 6.2 ±0.25 pF 2247 23-11049A03 tantalum 0.22 uF 10%; 35 V 2251 21-13740A27 8.2 ±0.25 pF 2252 21-13740A27 8.2 ±0.25 pF 2255 21-13740A27 8.2 ±0.25 pF 2265 21-13740A59 150 pF 2265 21-13740A59 150 pF 2264 21-13740A59 150 pF 2262 21-13740A59 150 pF 2264 21-13740A59 150 pF 2264 10 uF 2273 21-13740A59 150 pF 2274 21-13740A59 150 pF 2275 21-13740A59 150 pF 2276 21-13740A59 150 pF <	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
2238, 239 21-13740A59 150 pF C241 21-13740A59 150 pF C242 21-13740A27 8.2 ±0.25 pF C243 21-13740A27 2.4 ±0.1 pF C244 21-13740A27 5.6 ±0.25 pF C245 21-13740A23 5.6 ±0.25 pF C247 23-11049A03 tantalum 0.22 uF 10%; 35 V C251 21-13740A29 5.6 ±0.25 pF C252 21-13740A39 150 pF C253 21-13740A39 150 pF C254 21-13740A59 150 pF C2661 21-13740A59 150 pF C267 21-13740A59 150 pF C267 21-13740A59 150 pF C273 21-13740A59 150 pF C274 21-13740A59 150 pF C275 21-13740A59 150 pF C276 21-13740A59 150 pF C276 21-13740A59 150 pF C281 21-13740A59 150 pF C282 21-13740A59 150 pF		23-11049J11	tantalum 4.7 uF 10%; 16 V
2241 21-13740A287 82 t0.25 pF 2242 21-13740A27 82 t0.25 pF 2243 21-13740A21 5.6 ±0.25 pF 2244 21-13740A23 6.2 ±0.25 pF 2246 21-13740A23 6.2 ±0.25 pF 2246 21-13740A23 6.2 ±0.25 pF 2252 21-13740A20 8.2 ±0.25 pF 2253 21-13740A303 1±0.25 pF 2254 21-13740A51 5.6 ±0.25 pF 2255 21-13740A53 150 pF 2264 21-13740A59 150 pF 2265 21-13740A59 150 pF 2262 21-13740A59 150 pF 2262 21-13740A59 150 pF 2263 21-13740A59 150 pF 2273 21-13740A59 150 pF 2274 21-13740A50 8.2 ±0.25 pF 2279 21-13740A59 150 pF 2276 21-13740A59 150 pF 2281 21-13740A59 150 pF 2282 21-13740A59 150 pF 2284 21-13740A59 150 pF 2284 2			
2243 21-13740G12 2.4 ±0.1 pF 2244 21-13740A23 6.2 ±0.25 pF C246 21-13740A23 6.2 ±0.25 pF C246 21-13740A23 6.2 ±0.25 pF C247 23-1049A03 tantalum 0.22 uF 10%; 35 V C251 21-13740G10 2.0 ±0.1 pF C253 21-13740A33 t±0.25 pF C254 21-13740A59 150 pF C255 21-13740A59 150 pF C264 12-13740A59 150 pF C262 21-13740A59 150 pF C263 21-13740A59 150 pF C264 thru 266		21-13740A59	
2244 21-13740A23 6.2 ±0.25 pF 6245 21-13740A21 5.6 ±0.25 pF 6246 21-13740A21 6.2 ±0.25 pF 6252 21-13740A27 8.2 ±0.25 pF 6253 21-13740A27 8.2 ±0.25 pF 6253 21-13740A27 8.2 ±0.25 pF 6254 21-13740A21 5.6 ±0.25 pF 6255 21-13740A21 5.6 ±0.25 pF 6261 22-13741A45 0.00 pF 6262 21-13740A21 5.6 ±0.25 pF 6263 21-13740A59 150 pF 6264 10.1 yF 5.0 pF 6267 21-13740A59 150 pF 6273 21-13740A59 150 pF 6274 21-13740A59 150 pF 6275 21-13740A59 150 pF 6276 21-13740A26 6.2 ±0.25 pF 6276 21-13740A51 80 pF 6282 21-13740A51 80 pF 6286	C242	21-13740A27	
2245 21-13740A21 5.6 ±0.25 pF C246 21-13740A23 6.2 ±0.25 pF C251 21-13740A23 8.2 ±0.25 pF C252 21-13740G09 1.8 ±0.1 pF C253 21-13740A03 1 ±0.25 pF C254 21-13740A03 1 ±0.25 pF C255 21-13740A59 150 pF C261 21-13740A59 150 pF C262 21-13740A59 150 pF C263 121-13740A59 150 pF C264 11.13740A59 150 pF C271 27 21-13740A59 150 pF C273 21-13740A59 150 pF C274 21-13740A59 150 pF C274 21-13740A54 250 pF C274 21-13740A53 150 pF C275 21-13740A54 20 pF C276 21-13740A53 150 pF C282 21-13740A51 68 pF C283 21-13740A51 68 pF C284 21-13740A51 68 pF C	C243		
224621-13740A23 $6.2 \pm 0.25 \text{ pF}$ C24723-11049A03tantalum 0.22 uF 10%; 35 VC25121-13740A27 $8.2 \pm 0.25 \text{ pF}$ C25221-13740G102.0 \pm 0.1 \text{ pF}C25321-13740A37 $1\pm 0.25 \text{ pF}$ C25421-13740A39150 pFC25521-13741A4501 uFC2662221-13740A59C26721-13740A59150 pFC26321-13740A59150 pFC26421-13740A59150 pFC27127221-13740A59C27321-13740A59150 pFC27421-13740A59150 pFC27521-13740A71470 pFC27621-13740A7382 ± 0.25 pFC27621-13740A7382 ± 0.25 pFC27621-13740A7362 ± 0.25 pFC28121-13740A7350 pFC28221-13740A7350 pFC28321-13740A59150 pFC28421-13740A59150 pFC28521-13740A59150 pFC286Not UsedC28721-13740A5168 pFC28821-13740A5160 pFC289Not UsedC28921-13740A59150 pFC286Not UsedC28721-13740A5150 pFC28621-13740A59150 pFC286Not UsedC28721-13740A71470 pFC286Not UsedC28721-13740A7110 uF	44	1 10 100 1	
2247 23-11049A03 tantalum 0.22 uF 10%; 35 V C251 21-13740G9 8.2±0.25 pF C253 21-13740G9 1.8±0.1 pF C254 21-13740A27 5.6±0.25 pF C255 21-13740A3 150.25 pF C255 21-13740A59 150 pF C262 21-13740A59 150 pF C263 21-13740A59 150 pF C264 thu 266			
C25121-13740A278.2 ± 0.25 pFC25221-13740G102.0 ± 0.1 pFC25321-13740G102.0 ± 0.1 pFC25421-13740A31 ± 0.25 pFC25521-13740A59150 pFC26221-13740A59150 pFC26321-13740A59150 pFC26411-13740A59150 pFC26721-13740A59150 pFC27321-13740A59150 pFC27421-13740A39 pFC27521-13740A71470 pFC27621-13740A3382 ± 0.25 pFC27721-13740A71470 pFC27621-13740A7362 ± 0.25 pFC27721-13740A7362 ± 0.25 pFC27821-13740A7362 ± 0.25 pFC28221-13740A7362 ± 0.25 pFC28321-13740A7362 ± 0.25 pFC28421-13740A7368 pFC28521-13740A5168 pFC286Not UsedC28721-13740A5150 pFC28821-13740A59150 pFC28421-13740A71470 pFC28521-13740A71470 pFC286Not UsedC28721-13740A59150 pFC28821-13740A59150 pFC28421-13740A59150 pFC28521-13740A59150 pFC28621-13740A59150 pFC28621-13740A59150 pFC28621-13740A59150 pFC28621-13740A59 <td></td> <td></td> <td></td>			
2252 21-13740G09 1.8 ±0.1 pF 2253 21-13740G10 2.0 ±0.1 pF 2254 21-13740A03 150.25 pF 2255 21-13740A21 5.6 ±0.25 pF 2261 21-13740A21 5.6 ±0.25 pF 2262 21-13740A59 150 pF 2263 21-13740A59 150 pF 2264 T1-13740A59 150 pF 2267 21-13740A59 150 pF 2267 21-13740A59 150 pF 2273 21-13740A59 150 pF 2274 21-13740A71 470 pF 2275 21-13740A73 89 pF 2276 21-13740A73 82.20.25 pF 2281 21-13740A52 62 pF 2282 21-13740A53 150 pF 2283 21-13740A53 150 pF 2284 21-13740A51 68 pF 2285 21-13740A51 68 pF 2286 21-13740A59 150 pF 2286 21-13740A59 150 pF 2287 2			······································
2253 21-13740A03 1 ±0.25 pF C254 21-13740A03 1 ±0.25 pF C255 21-13740A59 150 pF C261 21-13740A59 150 pF C262 21-13740A59 150 pF C263 21-13740A59 150 pF C264 101 uF 2000 pF C267 21-13740A59 150 pF C271 21-13740A59 150 pF C273 21-13740A59 150 pF C274 21-13740A59 150 pF C275 21-13740A27 42 b25 pF C276 21-13740A23 6.2 b0.25 pF C282 21-13740A51 68 pF C283 21-13740A51 68 pF C284 21-13740A51 68 pF C286 Not Used C287 21-13740A51 68 pF C288 21-13740A51 68 pF C286 Not Used C287 21-13740A51 50 pF C286 Not Used			
C254 21-13740A3 1:0.25 pF C255 21-13740A21 56:±0.25 pF C261 21-13740A25 150 pF C262 21-13740A59 150 pF C263 21-13740A59 150 pF C264 21-13740A59 150 pF C267 21-13740A59 150 pF C267 21-13740A59 150 pF C273 21-13740A59 150 pF C274 21-13740A73 39 pF C275 21-13740A27 8.2 30.25 pF C276 21-13740A59 150 pF C276 21-13740A59 150 pF C282 21-13740A59 150 pF C283 21-13740A59 150 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286 Not Used C297 21-13740A59 150 pF C286 Not Used C297 21-13740A71 470 pF C296 21-13740A71 <t< td=""><td></td><td>Here is the second state of the second</td><td></td></t<>		Here is the second state of the second	
C255 21-13741A79 1000 pF C256, 257 21-13740A59 150 pF C261 21-13740A59 150 pF C262 21-13740A59 150 pF C264 thru 266		21-13740A03	1 ±0.25 pF
C261 21-13740A59 150 pF C262 21-13740A59 150 pF C263 21-13740A59 150 pF C264 11, 13740A59 150 pF C271 272 21-13740A59 150 pF C271 272 21-13740A59 150 pF C273 21-13740A51 89 pF C274 21-13740A51 82 50.25 pF C276 21-13740A27 8.2 50.25 pF C283 21-13740A27 8.2 50.25 pF C284 21-13740A51 62 ±0.25 pF C283 21-13740A51 68 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286 Not Used C291 Not Used C292 293 21-13740A59 150 pF C294 21-13740A59 150 pF C295 21-13740A59 150 pF C296 Not Used C297 21-13740A59 150 pF C298 29 21-13740A59 150 pF C2		21-13741A79	
C262 21-13741A45 .01 UF C263 21-13740A59 150 pF C267 21-13740A59 150 pF C273 21-13740A59 150 pF C274 21-13740A59 150 pF C275 21-13740A71 470 pF C276 21-13740A23 52 pF C276 21-13740A23 6.2 ±0.25 pF C279 23-11049A03 tantalum 0.22 uF 10%; 35 V C281 21-13740A23 6.2 ±0.25 pF C282 21-13740A59 150 pF C283 21-13740A59 150 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286	C256, 257		·
C263 21-13740A59 150 pF C264	C261		
C264 thru 266	1		A 444 444
C267 21-13740A59 150 pF C271 272 21-13740A59 150 pF C273 21-13740A51 39 pF C274 21-13740A71 470 pF C275 21-13740A71 470 pF C276 21-13740A23 6.2 ±0.25 pF C281 21-13740A23 6.2 ±0.25 pF C282 21-13740A59 150 pF C283 21-13740A59 150 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286 21-13740A51 68 pF C286 21-13740A51 68 pF C286 21-13740A51 68 pF C286 21-13740A59 150 pF C288 21-13740A59 150 pF C294 21-13740A59 150 pF C295 21-13740A59 150 pF C296 Not Used C297 21-13740A59 150 pF C298 299 21-13740A59 C401 21-13740A			
C271, 272 21-13740A59 150 pF C273 21-13740A43 39 pF C274 21-13740A71 470 pF C275 21-13740A27 8.2 ±0.25 pF C276 21-13740A27 8.2 ±0.25 pF C281 21-13740A36 20 pF C282 21-13740A59 150 pF C283 21-13740A59 150 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286	M 1 1	5 de 101 000	
C27321-13740A4339 pFC27421-13740A71470 pFC27521-13740A714.3 ±0.25 pFC27621-13740A278.2 ±0.25 pFC27923-11049A03tantalum 0.22 uF 10%; 35 VC28121-13740A3620 pFC28221-13740A59150 pFC28321-13740A5168 pFC286Not UsedC28721-13740A5168 pFC28821-13740A5168 pFC289Not UsedC291Not UsedC29221-13740A59150 pFC289Not UsedC291Not UsedC29221-13740A59150 pFC29321-13740A59150 pFC29421-13740A59150 pFC29521-13740A59150 pFC296Not UsedC29721-13740A71470 pFC40221-13740A59150 pFC296Not UsedC40321-13740A3722 pFC40421-13740A3722 pFC40321-13740A3722 pFC40421-13740A3722 pFC40523-11049J43tantalum 47 uF 10%; 10 VC40623-11049J43tantalum 2.2 uF 10%; 10 VC40721-13740A57tantalum 10 UF 10%; 16 VC40821-13740A791000 pFC41121-13740A791000 pFC41223-11049J47tantalum 10 UF 10%; 16 VC41321-13740A7910			*
C274 21-13740A71 470 pF C275 21-13740A71 4.3 ±0.25 pF C276 21-13740A23 6.2 ±0.25 pF C281 21-13740A23 6.2 ±0.25 pF C282 21-13740A36 20 pF C283 21-13740A39 1000 pF C284 21-13740A51 68 pF C285 21-13740A51 68 pF C286			
C275 $21-13740F18$ $4.3\pm 0.25 pF$ C276 $21-13740A27$ $8.2\pm 0.25 pF$ C279 $23-11049A03$ tantalum 0.22 uF 10%; 35 VC281 $21-13740A36$ $20 pF$ C282 $21-13740A36$ $20 pF$ C283 $21-13740A36$ $20 pF$ C284 $21-13740A51$ $68 pF$ C285 $21-13740A51$ $68 pF$ C286			
C276 21-13740A27 8.2 ± 0.25 pF C281 21-13740A23 6.2 ± 0.25 pF C282 21-13740A36 20 pF C283 21-13740A59 150 pF C284 21-13740A59 150 pF C285 21-13740A51 68 pF C286			
C28121-13740A23 $6.2 \pm 0.25 \text{ pF}$ C28221-13740A3620 pFC28321-13740A59150 pFC28421-13740A5168 pFC28521-13740A5168 pFC286Not UsedC28721-13740A5168 pFC28821-13740A5168 pFC289Not UsedC291Not UsedC292, 29321-13740A59150 pFC29421-13740A59150 pFC29521-13740A59150 pFC296Not UsedC29721-13740A59150 pFC298Not UsedC29721-13740A71470 pFC29829921-13740A132.7 ±0.25 pF2403C40121-13740A132.7 ±0.25 pFC40221-13740A132.7 ±0.25 pFC40321-13740A3722 pFC40421-13740A3722 pFC40523-11049J43tantalum 47 uF 10%; 10 VC40623-11049A40tantalum 2.2 uF 10%; 10 VC40721-13740A57tantalum 3.3 uF 10%; 20 VC41121-13740A791000 pFC41223-11049J07tantalum 3.3 uF 10%; 20 VC41341-13743A190.1 uF 10%; 16 VC41621-13740A71470 pFC41721-13740A71470 pFC41821-13743A190.1 uF 10%; 16 VC41923-11049J07tantalum 3.3 uF 10%; 16 VC41223-11049J07tantalum 47 uF 10%; 16 V		21-13740A27	
C282 21-13740A36 20 pF C283 21-13740A59 150 pF C284 21-13740A59 1000 pF C285 21-13740A51 68 pF C286			
C283 $21 \cdot 13740A59$ 150 pF C284 $21 \cdot 13740A51$ 68 pF C285 $21 \cdot 13740A51$ 68 pF C286	AM 47 47 48		
C284 21-13740A79 1000 pF C285 21-13740A51 68 pF C286	44.5		* v
C285 21-13740A51 68 pF C286			
C286 Noi Used C287 21-13740A51 68 pF C288 21-13743A19 0.1 uF 10%; 16 V C289 Not Used C291 Not Used C292, 293 21-13740A59 150 pF C294 21-13740A59 150 pF C295 21-13740A71 470 pF C296 Not Used C297 21-13740A71 470 pF C298, 299 21-13740A33 2.7 ±0.25 pF C401 21-13740A37 22 pF C403 21-13740A37 22 pF C404 21-13740A37 22 pF C404 21-13740A37 22 pF C405 23-11049A40 tantalum 7.2 uF 10%; 10 V C406 23-11049A47 tantalum 2.2 uF 10%; 10 V C408 21-13740A79 1000 pF C411 21-13740A79 1000 uF C412 23-11049A57 tantalum 3.3 uF 10%; 20 V C413 414 21-13740A79		and the second	NH-F
C287 21-13740A51 68 pF C288 21-13743A19 0.1 uF 10%; 16 V C289			
C288 21-13743A19 0.1 uF 10%; 16 V C289		6	
C289			
C291 Not Used C292, 293 21-13740A59 150 pF C294 21-13741A45 .01 uF C295 21-13740A59 150 pF C296 Not Used C297 21-13740A71 470 pF C298, 299 21-13740A13 33 pF C401 21-13740A37 22 pF C402 21-13740A37 22 pF C403 21-13740A37 22 pF C404 21-13740A37 22 pF C405 23-11049J43 tantalum 7.0 F 10%; 10 V C406 23-11049J457 tantalum 2.2 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13740A79 1000 pF C411 21-13740A79 1000 pF C412 23-11049J07 tantalum 3.3 uF 10%; 20 V C411 21-13740A79 1000 pF C412 23-11049J07 tantalum 3.3 uF 10%; 20 V C418 21-13740A71 470 pF C416 21-13740A71 100 pF <td>50 5 K.</td> <td></td> <td></td>	50 5 K.		
C292, 293 21-13740A59 150 pF C294 21-13741A45 .01 uF C295 21-13740A59 150 pF C296			
C294 21-13741A45 .01 uF C295 21-13740A59 150 pF C296	11 14 15 15 141	21-13740A59	
C295 21-13740A59 150 pF C296 Not Used C297 21-13740A71 470 pF C298, 299 21-13740A41 33 pF C402 21-13740A41 33 pF C403 21-13740A41 32 pF C404 21-13740A41 22 pF C403 21-13740A37 22 pF C404 21-13743A19 0.1 uF 10%; 16 V C405 23-11049A43 tantalum 47 uF 10%; 10 V C406 23-11049A40 tantalum 2.2 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13740A79 1000 pF C410 23-11049A57 tantalum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C412 23-11049J07 tantalum 3.3 uF 10%; 20 V C413 21-13740A71 0.1 uF 10%; 16 V C415 21-13740A73 1000 pF C416 21-13740A71 0.1 uF 10%; 16 V C418 21-13740A71 1000 pF C418 21-13740A71 1000 pF C420 21-13740A71 1000 pF		21-13741A45	.01 uF
C29721-13740A71470 pFC298, 29921-13743A190.1 uF 10%; 16 VC40121-13740A3132 pFC40221-13740A3722 pFC40321-13740A3722 pFC40421-13743A190.1 uF 10%; 16 VC40523-11049J43tantalum 47 uF 10%; 10 VC40623-11049J43tantalum 2.2 uF 10%; 10 VC40721-13741A45.01 uFC40821-13741A45.01 uFC409, 41023-11049A57tantalum 10 uF 10%; 16 VC41121-13740A791000 pFC41223-11049A57tantalum 3.3 uF 10%; 20 VC41341421-13740A791000 pFC41521-13740A71470 pFC41621-13740A71470 pFC41721-13740A71470 pFC41821-13740A711000 pFC41923-11049A07tantalum 1 uF 10%; 16 VC42021-13740A71470 pFC42121-13740A71100 pFC42221-13740A711 uF 10%; 16 VC42323-11049J43tantalum 47 uF 10%; 10 VC424Not UsedC42521-13740A59150 pFC45021-13740A59150 pFC451Not UsedC45221-13740A59150 pFC45345421-13743A190.1 uF 10%; 16 VC45221-13740A59150 pFC45345421-13743A190.1 uF 10%; 16 VC45021-13740A59150 pFC4502		21-13740A59	150 pF
C298, 29921-13743A190.1 uF 10%; 16 VC40121-13740A4133 pFC40221-13740A3722 pFC40321-13740A3722 pFC40421-13743A190.1 uF 10%; 16 VC40523-11049A40tantalum 47 uF 10%; 10 VC40623-11049A40tantalum 2.2 uF 10%; 10 VC40721-13741A51.018 uFC40821-13741A51.018 uFC409, 41023-11049A57tantalum 3.3 uF 10%; 20 VC41121-13741A51.018 uFC41223-11049A57tantalum 3.3 uF 10%; 20 VC41321-13743A190.1 uF 10%; 16 VC41521-13741A45.01 uFC41621-13740A791000 pFC41721-13740A791000 pFC41821-13740A791000 pFC41923-11049A07tantalum 1.uF 10%; 16 VC42021-13740A71470 pFC42121-13740A711000 pFC42221-13740A711000 pFC42323-11049A07tantalum 1 uF 10%; 16 VC424Not UsedC42521-13740A71470 pFC42621-13740A71470 pFC42521-13740A59150 pFC45221-13740A59150 pFC451Not UsedC45221-13740A59150 pFC45345421-13743A190.1 uF 10%; 16 VC45345421-13743A190.1 uF 10%; 16 VC450Not UsedC45521-13740A59<	C296		Not Used
C401 21-13740A41 33 pF C402 21-13740A13 2.7 ±0.25 pF C403 21-13740A37 22 pF C404 21-13740A37 22 pF C405 23-11049A43 tantalum 47 uF 10%; 10 V C406 23-11049A40 tantalum 47 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13741A45 .01 uF C409, 410 23-11049A57 tantalum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C412 23-11049A57 tantalum 3.3 uF 10%; 20 V C411 21-13740A79 1000 pF C412 23-11049A07 tantalum 3.3 uF 10%; 20 V C413 21-13740A79 1000 pF C415 21-13740A79 1000 pF C416 21-13740A79 1000 pF C418 21-13743A19 0.1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 16 V C421 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424	C297		
C40221-13740A13 $2.7 \pm 0.25 \text{ pF}$ C40321-13740A3722 pFC40421-13743A190.1 uF 10%; 16 VC40523-11049A40tantalum 47 uF 10%; 10 VC40623-11049A40tantalum 2.2 uF 10%; 10 VC40721-13741A45.01 uFC40821-13741A45.01 uFC409, 41023-11049A77tantalum 10 uF 10%; 16 VC41121-13740A791000 pFC41223-11049J07tantalum 3.3 uF 10%; 20 VC413, 41421-13743A190.1 uF 10%; 16 VC41521-13740A791000 pFC41621-13740A791000 pFC41821-13740A791000 pFC41821-13740A71470 pFC42021-13743A190.1 uF 10%; 16 VC42121-13740A71470 pFC42221-13740A71470 pFC42323-11049J43tantalum 47 uF 10%; 10 VC424Not UsedC42521-13740A59150 pFC45021-13740A59150 pFC451Not UsedC45221-13740A59150 pFC45345421-13743A190.1 uF 10%; 16 VC45221-13740A59150 pFC45321-13740A59150 pFC45021-13740A59150 pFC451Not UsedC45221-13740A59150 pFC45345421-13740A59150 pFC45921-13740A59150 pFC45021-13740A59150 pF </td <td>C298, 299</td> <td></td> <td>10 M</td>	C298, 299		10 M
C403 21-13740A37 22 pF C404 21-13743A19 0.1 uF 10%; 16 V C405 23-11049J43 tantalum 47 uF 10%; 10 V C406 23-11049A40 tantalum 2.2 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13741A45 .01 uF C409 23-11049A57 tantalum 2.2 uF 10%; 10 V C408 21-13741A45 .01 uF C409 410 23-11049A57 tantalum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C C412 23-11049A57 tantalum 3.3 uF 10%; 20 V C C413 414 21-13740A79 1000 pF C C415 21-13740A71 470 pF C C C418 21-13740A71 1 uF 10%; 16 V C C C420 21-13740A71 1 uF 10%; 16 V C			
C404 21-13743A19 0.1 uF 10%; 16 V C405 23-11049J43 tantalum 47 uF 10%; 10 V C406 23-11049A40 tantalum 2.2 uF 10%; 10 V C407 21-13741A5 .01 uF C408 21-13741A5 .01 uF C409, 410 23-11049A57 tantalum 2.2 uF 10%; 16 V C411 21-13741A51 .018 uF C412 23-11049A57 tantalum 3.3 uF 10%; 20 V C413, 414 21-13743A19 0.1 uF 10%; 16 V C416 21-13740A79 1000 pF C417 21-13740A79 1000 pF C418 21-13743A19 0.1 uF 10%; 16 V C420 21-13740A79 1000 pF C418 21-13740A71 470 pF C420 21-13740A71 10%; 16 V C421 21-13740A71 10%; 16 V C422 21-13740A71 470 pF C423 23-11049A07 tantalum 1 uF 10%; 16 V C424			
C405 23-11049J43 tantalum 47 uF 10%; 10 V C406 23-11049A40 tantalum 2.2 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13741A45 .01 uF C409 21-13741A45 .01 uF C409 21-13741A45 .01 uF C409 21-13741A45 .01 uF C409 21-13741A45 .01 uF C411 21-13740A79 1000 pF C412 23-11049J07 tantalum 3.3 uF 10%; 20 V C413 21-13741A45 .01 uF C415 21-13740A71 470 pF C416 21-13740A71 470 pF C417 21-13740A71 1000 pF C418 21-13743A19 0.1 uF 10%; 16 V C420 21-13740A71 470 pF C420 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J07 tantalum 1 uF 10%; 16 V C424	M 1 1		
C406 23-11049A40 tantalum 2.2 uF 10%; 10 V C407 21-13741A45 .01 uF C408 21-13741A45 .01 uF C409, 410 23-11049A57 tantalum 10 uF 10%; 16 V C411 21-13741A57 tantalum 10 uF 10%; 16 V C412 23-11049A57 tantalum 3.3 uF 10%; 20 V C413, 414 21-13740A79 1000 pF C415 21-13740A79 1000 pF C416 21-13740A79 1000 pF C418 21-13740A71 470 pF C418 21-13740A79 1000 pF C418 21-13740A71 1000 pF C420 21-13740A71 1000 pF C421 21-13740A71 1000 pF C422 21-13740A71 1000 pF C420 21-13740A71 1000; 16 V C422 21-13740A71 1 uF 10%; 16 V C422 21-13740A71 1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424	*		
C407 21-13741A45 .01 uF C408 21-13741A45 .01 uF C409 410 23-11049A57 tantatum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C412 23-11049A57 tantatum 10 uF 10%; 16 V C412 23-11049A57 tantatum 3.3 uF 10%; 20 V C413 414 21-13740A79 1000 pF C415 21-13740A79 1000 pF C416 21-13740A79 1000 pF C418 21-13740A79 1000 pF C418 21-13740A71 470 pF C419 23-11049A07 tantatum 1 uF 10%; 16 V C420 21-13740A71 1 uF 10%; 16 V C422 21-13740A71 1 uF 10%; 16 V C422 21-13740A71 1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantatum 47 uF 10%; 10 V C424		1 1 N A H 1 N A AM	
C408 21-13741A51 .018 uF C409, 410 23-11049A57 tantatum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C412 23-11049A57 tantatum 10 uF 10%; 16 V C413, 414 21-13740A79 1000 pF C415 21-13741A45 .01 uF 10%; 16 V C416 21-13740A79 1000 pF C418 21-13740A79 1000 pF C418 21-13740A79 1000 pF C419 23-11049A07 tantatum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 16 V C421 21-13740A71 470 pF C422 21-13740A71 470 pF C423 23-11049J43 tantatum 47 uF 10%; 10 V C424 Not Used C425 21-13740A59 150 pF C426 21-13740A59 150 pF C452 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C451 Not	~		
C409, 410 23-11049A57 tantatum 10 uF 10%; 16 V C411 21-13740A79 1000 pF C412 23-11049J07 tantatum 3.3 uF 10%; 20 V C413 21-13743A19 0.1 uF 10%; 16 V C415 21-13743A45 0.1 uF 10%; 16 V C416 21-13740A71 470 pF C418 21-13740A79 1000 pF C418 21-13740A79 1000 pF C418 21-13740A79 1000 pF C419 23-11049A07 tantatum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 16 V C421 21-13740A71 470 pF C420 21-13740A71 470 pF C422 21-13740A71 470 pF C423 23-11049J43 tantatum 47 uF 10%; 16 V C424 Not Used C425 21-13740A59 150 pF C426 21-13740A59 150 pF C452 21-13740A59 150 pF C451 Not Used C452 21-13740A59		and the second s	.018 uF
C412 23-11049J07 tantalum 3.3 uF 10%; 20 V C413, 414 21-13743A19 0.1 uF 10%; 16 V C415 21-13741A45 .01 uF C416 21-13740A71 470 pF C417 21-13740A79 1000 pF C418 21-13740A79 1000 pF C418 21-13743A19 0.1 uF 10%; 16 V C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424		A 1 IN IN ALL M. AND MAL	tantalum 10 uF 10%; 16 V
C413, 414 21-13743A19 0.1 uF 10%; 16 V C415 21-13741A45 .01 uF C416 21-13740A71 470 pF C417 21-13740A79 1000 pF C418 21-13740A79 1000 pF C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049A07 tantalum 1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424 Not Used C425 21-13740A59 150 pF C450 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C453 454 21-13743A19 0.1 uF 10%; 16 V C452 21-13740A59 150 pF C453 454 21-13743A19 0.1 uF 10%; 16 V C453 454 21-13743A19 0.1 uF 10%; 16 V C453 454 21-13743A19 0.1 uF 10%; 16 V		21-13740A79	
C415 21-13741A45 .01 uF C416 21-13740A71 470 pF C417 21-13740A79 1000 pF C418 21-13740A79 1000 pF C418 21-13740A79 1000 pF C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13741W01 1 uF 10%; 25 V C421 21-13740A71 470 pF C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424	C412	23-11049J07	tantalum 3.3 uF 10%; 20 V
C416 21-13740A71 470 pF C417 21-13740A79 1000 pF C418 21-13743A19 0.1 uF 10%; 16 V C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 25 V C421 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424			
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C418 21-13743A19 0.1 uF 10%; 16 V C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13743A19 0.1 uF 10%; 25 V C421 21-13743A19 0.1 uF 10%; 16 V C422 21-13743A19 0.1 uF 10%; 16 V C422 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424 Not Used C425 21-13740A59 150 pF C450 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C453 454 21-13740A59 150 pF C452 21-13740A59 150 pF C453 454 21-13740A59 150 pF C453 454 21-13740A59 150 pF C453 21-13740A59 150 pF 1 C453 21-13740A59 150 pF 1 C453 21-13740A59 150 pF <td></td> <td></td> <td></td>			
C419 23-11049A07 tantalum 1 uF 10%; 16 V C420 21-13741W01 1 uF 10%; 25 V C421 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424		A A 44 M 44 M	
C420 21-13741W01 1 uF 10%; 25 V C421 21-13743A19 0.1 uF 10%; 16 V C422 21.13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424			
C421 21-13743A19 0.1 uF 10%; 16 V C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424			
C422 21-13740A71 470 pF C423 23-11049J43 tantalum 47 uF 10%; 10 V C424 Not Used C425 21-13740A46 47 pF C426 Not Used C451 Not Used C452 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C452 21-13740A59 150 pF C453 454 21-13740A59 150 pF C455 thru 458 21-13740A59 150 pF C453 454 21-13740A59 150 pF C455 thru 458 21-13740A59 150 pF C459 21-13740A59 150 pF C450 C450 1-13740A59 150 pF C450 C450 1-13740A59 150 pF C450 C460 Not Used C460 C461 thru 463 21-13740A20 5.1 ±.025 pF			
C423 23-11049J43 tantalum 47 uF 10%; 10 V C424 Not Used C425 21-13740A46 47 pF C450 21-13740A59 150 pF C451 Not Used 150 pF C452 21-13740A59 150 pF C452 21-13740A59 150 pF C453, 454 21-13740A59 150 pF C455 thru 458 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13743A19 0.1 uF 10%; 16 V C459 21-13743A19 0.1 uF 10%; 16 V C460 Not Used 1uF 10%; 16 V C461 1tru 463 21-13740A20 5.1 ±.025 pF			
C424 Not Used C425 21-13740A46 47 pF C450 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C453 454 21-13740A59 150 pF C453 454 21-13743A19 0.1 uF 10%; 16 V C455 thru 458 21-13743A19 0.1 uF 10%; 16 V C459 21-13743A19 0.1 uF 10%; 16 V 0.1 uF 10%; 16 V C460 Not Used 0.1 uF 10%; 16 V C461 thru 463 21-13740A20 5.1 ±.025 pF	444 A 14 A4		
C425 21-13740A46 47 pF C450 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C453, 454 21-13740A59 150 pF C455 thru 458 21-13740A59 150 pF C455 thru 458 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13740A59 0.1 uF 10%; 16 V C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF			
C450 21-13740A59 150 pF C451 Not Used C452 21-13740A59 150 pF C453, 454 21-13743A19 0.1 uF 10%; 16 V C455 thru 458 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13740A59 150 pF C459 21-13740A59 150 pF C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF		21-13740A46	47 pF
C452 21-13740A59 150 pF C453, 454 21-13743A19 0.1 uF 10%; 16 V C455 thru 458 21-13740A59 150 pF C459 21-13743A19 0.1 uF 10%; 16 V C459 21-13743A19 0.1 uF 10%; 16 V C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF		21-13740A59	
C453, 454 21-13743A19 0.1 uF 10%; 16 V C455 thru 458 21-13740A59 150 pF C459 21-13743A19 0.1 uF 10%; 16 V C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF	C451		
C455 thru 458 21-13740A59 150 pF C459 21-13743A19 0.1 uF 10%; 16 V C460	(m) (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1		
C459 21-13743A19 0.1 uF 10%; 16 V C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF		NO. 1 11	
C460 Not Used C461 thru 463 21-13740A20 5.1 ±.025 pF			
C461 thru 463 21-13740A20 5.1 ±.025 pF	141 6 80 60	21-13743A19	
		01.107/0400	
	MC C M A	21-13740A20 21-13743A19	0.1 uF 10%; 16 V
C464 21-13743A19 0.1 uF 10%; 16 V C465 21-13740A71 470 pF			
C466 21-13740A59 150 pF			· · · · · · · · · · · · · · · · · · ·
C501 21-13740A79 1000 pF	44 · · · A		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
C502 21-13743A19 0.1 uF 10%; 16 V			
C503 23-11049A57 tantalum 10 uF 10%; 16 V	And 100 100 100		· · · · · · · · · · · · · · · · · · ·
C511 21-13741W01 1 uF 10%; 25 V			and the second
	भूतम्बर २.३. 		

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts

PL-951011-A

12.5 kHz (N) (used in PMUE1006 & PMUE1054)

REFERENCE MOTOROLA

20/25 kHz (W) (used in PMUE1007 & PMUE1055)

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts 12.5 kHz (N) (used in PMUE1006 & PMUE1054) SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts PL-951011-A 20/25 kHz (W) (used in PMUE1007 & PMUE1055)

21-13741A25 1500 pF

21-13740A55 100 pF

21-13741A37 4700 DF

21-13740A79 1000 pF 21-11032B15 0.22 uF +80/-20%

21-13741A59 .039 uF 21-13741A45 .01 uF

21-13740A71 470 pF 21-13743A19 0.1 uF 10%; 16 V

21-13740A71

21-13740A30

21-13740A29

21-13740A33

21-13740A79

1-13743A19 0.1 uF 10% 16V

21-13743A19 0.1 uF 10% 16 V

21-13743A19 0.1 uF 10% 16 V

21-13743A19 0.1 uF 10%; 16 V

23-11049A05 Iantalum 0.47 uF 10%; 25 V

23-11049A57 tantalum 10 uF 10%; 16 V

Not Use

23-11049A07 tantalum 1 uF 10%; 16 V

23-11049A05 tantalum 0.47 uF 10%; 25 V

23-11049J43 tantalum 47 uF 10%; 10 V

23-11049J43 tantalum 47 uF 10%; 10 V

470 pF 11 pF

10 pF

21-13740A24 6.8 ±0.25 pF

21-13740A79 1000 pF

21-13743A19 0.1 uF 10%; 16 V

21-13741W01 1 uF 10%; 25 V

21-13741W01 1 uF 10%; 25 V

21-80464E42 clamped mica 27 pF 250 V

21-80464E40 clamped mica 30 pF 250 V 21-80060M22 13 pF 500 V

21-80060M14 7.5 ±0.5 pF 500 V

21-11032B15 0.22 uF +80/-20%

21-13741W01 1 uF 10%; 25 V

21-80060M13 7 ±0.5 pF 500 V

21-80060M09 5 ±0.5 pF 500 V

21-80060M10 5.5 ±0.5 pF 500 V

21-80060M08 4.5 ±0.5 pF 500 V

21-11032B15 0.22 uF +80/-20%

48-80154K03 dual Schottky SOT

48-80154K03 dual Schottky SOT

48-05129M76 silicon SOT

48-80939T01 Schottky SOT

48-83553T02 4A 200 PIV MUR420

48-05129M76 silicon SOT

diode: (see note

48-80142L01 silicon PIN SOT MMBV3401

48-02245J22 silicon varactor SOT 1T363

48-13833C07 dual silicon SOT MMBD7000

48-62824C01 silicon varactor SOT 1SV229

48-62824C01 silicon varactor SOT 1SV229

48-13833C07 dual silicon SOT MMBD7000

48-13833C07 dual silicon SOT MMBD7000

21-80060M22 13 pF 500 V

21-80060M43 100 pF 100 V

21-13740A79 1000 pF

21-13740A59 150 pF

21-13740A59 150 pF

21-80060M33 39 pF 500 V

21-80060M34 43 pF 500 V

21-11078B38 68 pF 100 V

21-80060M31 33 pF 500 V

15 pF

1000 pF

21-11032B15 0.22 uF +80/-20%

21-13743A19 0.1 uF 10%; 16 V

tantalum 47 uF 10%; 10 V

DESCRIPTION

REFERENCE MOTOROLA

PART NO.

23-11049,43

SYMBOL

C559 thru 5

C562 C563, 56

C565

C601 C602 C603 C604 C651 C652 C653 C654 C655

C656

C701

C803, 804

C2610 C2611

C805 C806 thru 81/

C2612 C2613, 2614

C2673

C2680 thru 2684

CR1 CR2 CR51 CR201 CR201 CR211, 212 CR241 CR251, 252 CR401 CR402 CR403 CR404 CR405 CR406

C551

SIM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts 112.5 kHz (N) (used in PMUE1006 & PMUE1054) 3M50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts 01.051011.

M50/SM120 UHF 0/25 kHz (W) (use	d in PMUE1007 &	PMUE1055) PL	-951011-A
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	
CR407	48-13833C07	dual silicon SOT MMBD7000)
CR408	48-05129M76	silicon SOT	
CR451	48-05129M76	silicon SOT	
CR651 thru 653	48-13833C07	dual silicon SOT MMBD7000)
CR2650, 2651	48-02482,02	silicon PIN MA4P1250	
CR2670	48-80236E07	transient suppressor dual Schottky SOT HSMS-2	802
CR2680, 2681	48-82290T02	dual Scholiky Soft Hourd 2	
		ferrite beads:	
E2610	24-84657R01	ferrite bead	
E2620, 2621	24-84657R01	ferrite bead	
E2630	24-84657R01	ferrite bead	
E2640	24-84657R01	ferrite bead	
E2670, 2671	24-84657R01	ferrite bead	
		fuse:	
F401	65-05214E04	2 amp axial lead	
		filter:	
EI 64/MI	91-80098D04	455 kHz 4F	
FL51(N) FL51(W)	91-80098D06	455 kHz 4D	
FL52(N)	91-80097D04	455 kHz 6F	
FL52(W)	91-80097D06	455 kHz 6D	
·	4		
		connector, receptacle:	
J1	09-09006C01	mini UHF coax	values 18%
J2	30-04510J01	power cable assembly (inclu	Nes J2)
J 3	28-04503J01	16-pin, accessories	niaranhana
J5	09-04426J01	telephone type, 8 contact, n	
JG	09-04424J05	 6 pin, internal options audio 8 pin, internal options digita 	
J7	09-04424J06 09-04422J02	10 pin, display board	
J8 J9	28-04423J01	2 pin, internal speaker	
39	£0.01120001	- bench travers out when an	
		jumper:	
JU401		Not Used	
JU501	06-62057C01	jumper	
i at Maaaa "W	24-84562T11	coil, rf: 4 turns airwound 2%	
L1 thru 7	24-62587X55	chip 0.15 uH 5%	
L8	24-62587X45	chip 22 nH 5%	
L9 L10	24-83411T63	0.15 uH 5% shielded	
LIT	24-62587X51	chip 68 nH 5%	
L12	24-62587X55	chip 0.15 uH 5%	
L51	24-62587X55	chip 0.15 uH 5%	
L52	24-62587X63	chip 0.62 uH 5%	
L53	24-62587X69	chip 1.2 uH 5%	
L54	24-62587N71	chip 1.8 uH 5%	
L55	24-62587X69	chip 1.2 uH 5%	
L58	24-62587X69 24-62587N60	chip 1.2 uH 5% chip 0.39 uH 5%	
L221	24-62587N60 24-62587X50	chip 56 nH 5%	
L241 L242	24-82567750 24-84562T11	4 turns airwound 2%	
L242 L243, 244	24-62587X61	chip 0.47 uH 5%	
L251	24-62587X49	chip 47 nH 5%	
1.252	24-84562T13	3 turns airwound 2%	
L253 thru 255	24-62587X60	chip 0.39 uH 5%	
L261	24-62587X45	chip 22 nH 5%	
L262	24-62587X60	chip 0.39 uH 5%	
L271	24-62587X61	chip 0.47 uH 5%	
L281	24-62587X60 24-62587X43	chip 0.39 uH 5% chip 15 nH 5%	
L282 L283	24-62587X43	chip 33 nH 5%	
L284	24-62587X60	chip 0.39 uH 5%	
L291	24-62587X43	chip 15 nH 5%	
L292	24-62587X60	chip .39 uH 5%	
L401	24-60578C43	chip 33 uH	
L2610	24-60591A01	3 turns	
L2611	24-60591C73	5 turns	
L2612	24-60591B17	4 turns	
L2613	24-60591B73	4 turns abin 22 pH 5%	
L2620	24-62587T40 24-62587T40	chip 33 nH 5% chip 33 nH 5%	
L2622 L2630	24-6258/140 24-60591E73	7 turns	
L2630	24-60591273	9 turns	
L2632	24-60591E73	1454 V.	
L2642	24-60591E69		
L2643	24-60591A33		
L2650, 2651	24-60591V77		
L2652	24-11087B22	chip 0.47 uH	

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts 12.5 kHz (N) (used in PMUE1006 & PMUE1054) SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts PL-951011-A DINIETONT & DINIETOSS 20/25 kHz (W) (

R291 R292 R293 R294 R401 R402

06-62057D54 1.8 meg.

06-62057C91 4.7k

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
L2653	24-60591R53	8 turns
L2660 thru 2662	24-60591X01	3 turns
_2663	24-60591R53	8 turns
		transistor: (see note)
21	48-13827A07	NPN; type MMBR941
12	48-13824A17	PNP; type MMBT3906
251	48-13827A07 48-13827A07	NPN; type MMBR941 NPN; type MMBR941
2271 2281	48-13827A07	NPN; type MMBR941
2401	48-80214G02	NPN; type MMBT3904
0402	48-80947V01	digital NPN; type DTC144W
Q404 thru 408	48-80947V01	digital NPN; type DTC144W
Q409	48-80141L03 48-80947V01	PNP, type M41L03 digital NPN; type DTC144W
Q410, 411 Q412	48-13824A17	PNP; type MMBT3906
Q413	48-80214G02	NPN; type MMBT3904
Q414	48-80141L03	PNP, type M41L03
Q415, 416	48-80947V01	digital NPN; type DTC144W
Q451	48-02245J25	PNP; type 2SB1142S NPN; type MMBT3904
Q452, 453	48-80214G02 48-02245J24	NPN; type BFG35
Q2610 Q2620	48-80225009	NPN; type MRF630
22630	48-80225C19	NPN; type MRF654
Q2640	48-80225C24	NPN; type MRF650
		and the stand of 50% A NO W.
		resistor, fixed: +/-5%; 1/10 W: unless otherwise stated
R3	06-62057C85	2.7k
R4	06-62057D07	20k
R5	06-62057C99	10k
R6	06-62057C39	33
R7	06-62057C63	330
R8	06-62057C66	430 100
R11	06-62057C51 06-62057C44	51
R51 R52	06-62057D12	33k
R53	06-62057D02	12k
R54	06-62057C82	2k
R55	06-62057C51	100
R57(N)	06-62057D31 06-62057D24	200k 100k
R57(W) R58	06-62057D24	13k
R59(N)	06-62057D24	100k
R59(W)	06-62057D20	68k
R60(N)	06-62057D07	20k
R60(W)	06-62057C82	2k 5.6k
R64 R66	06-62057C93 06-62057C73	820
R67(N)	06-62057C91	4.7k
R67(W)	06-62057C93	5.6k
R201	06-62057C83	2.2k
R202	06-62057D16	47k
R221	06-62057C83 06-62057C49	2.2k 82
R222 R223	06-62057C87	82 3.3k
R231	06-62057C75	1k
R232	06-62057C83	2.2k
R233	06-62057D09	24k
R241, 242	06-62057A65 06-62057D04	4.6k, 1/16 W 15k
R251	06-62057004	1.3k
R252 R253	06-62057C59	220
R260	06-62057C59	220
R271	06-62057D02	12k
R272	06-62057C95	6.8k
R273	06-62057C61	270 2k
R274	06-62057C82 06-62057C73	2k 820
R281 R282	06-62057085	2.7k
R283	06-62057C40	36
R284	06-62057C63	330
R285	06-62057C31	15
R286	06-62057C63	
R287	 06-62057D14	Not Used 39k
R291 R292	06-62057014	
R292 R293	06-62057D12	
R294	06-62057D13	36k
B401	06-62057D54	1.8 meg.

SM50/SM120 U-IF Main Board, 450-470 MHz, 10-25 Watts 12.5 kHz (N) (used in PMUE1006 & PMUE1054) SM50/SM120 U-IF Main Board, 450-470 MHz, 10-25 Watts PL-951011-A 20/25 kHz (W) (used in PMUE1007 & PMUE1055) REFERENCE MOTOROLA DESCRIPTION SYMBOL PART NO. B403 06-62057C99 10 R404 06-62057C75 R405 06-62057C81 1.8k R406 R407 06-62057C91 4.7k 06-62057D16 47 R408 06-62057C91 4.7k R409 06-62057C59 220 R410, 411 06-62057C99 R412 06-62057C67 R413 06-62057D16 47k R414 06-62057C91 4.7k R415 Not Us 06-62057D16 R416 47k R417 06-62057C91 4.7k R418 06-62057C79 R419 06-62057C85 R420 R421, 422 06-62057C99 06-62057D24 100k R423 R424, 425 R426 R427 06-62057C99 10 06-62057C99 10 06-62057C27 06-62057C99 10 R428 R429 06-62057D24 100 06-62057C99 10 R430 R431, 432 06-62057D16 47 06-62057C91 4.7k R434 R435 R436 R437 R438 R439 R439 R440 06-62057C87 3.3k 06-62057C71 680 06-62057C53 120 06-62057D17 51k 06-62057D08 22k 06-62057099 1 06-62057D17 51k R441, 442 06-62057C27 R443 06-62057C01 0 R451 R452 R453 R454 06-62057C71 680 06-80195M37 330 1/2 watt 06-62057C71 06-62057C75 1k R454 R455 thru 4 R455 thru 4 R460 R461 R462 R463 R463 R463 R464 R465 R501 R502 R502 06-62057C99 10k 06-62057D04 15k 06-62057C91 4.7k 06-62057C99 10k 06-05621T02 thermistor 50k @ 25°C 06-62057C71 680 06-62057C59 220 06-62057C51 100 06-62057C63 330 06-62057D24 100k R551 R552, 553 R554 06-62057D11 30k 06-62057D02 12k 18-04405J02 variable 2k with switch R554 R555(N) R555(W) R556 R557 R558 R559 R560 R560 R561,563 06-62057C27 06-62057D11 06-62057C99 06-62057C27 06-62057C99 10k 06-62057C43 06-62057D24 100k 06-62057D16 47k R563(N) R563(W) 06-62057D04 15k 06-62057D11 30k R563(W) R564 R566 R567, 561 R569 R570 R571 06-62057D04 15k 06-62057C97 8.2k 06-62057D16 47k 06-62057C69 560 06-62057C82 2k Not Use R601 R602 R603 R604 06-62057D08 22k 06-62057D24 100k 06-62057C99 10k 06-62057D48 1 meg R651 R652 R653 R654 R655 06-62057D30 180k 06-62057D40 470k 06-62057C27 10 06-62057D09 24k 06-62057D11 30k R656 R657 R658 06-62057C99 10k 06-62057D24 100k 06-62057C46 62 R659 06-62057C66 430

12.5 kHz (N) (used in PMUE1006 & PMUE1054) 20/25 kHz (W) (used in PMU REFERENCE MC SYMBOL P

B665

R666

R667

R668

R669

B670

R670 R671 R701 R702 R703 R704 R705 R2610 R2611 R2613, 2614 R2615, 2616 R2640 R2651 R2660 R2651 R2660 R2675 R2683, 2684 R2683, 2684 R2685, 2686 R2687	
U1 U2 U51 U201* U251 U401 U402 U403 U404 U405 U405 U406 U451 U501 U551 U553 U554 U601	848)853838344444
VR401 VR402 thru 406 VR407 VR408, 409 VR410 VR411, 412 VR451 VR551 thru 553	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y51(N) Y51(W) Y52 Y201* Y401	

42-80281L01 ground clip (2 used for Q2640) note: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part numbers.

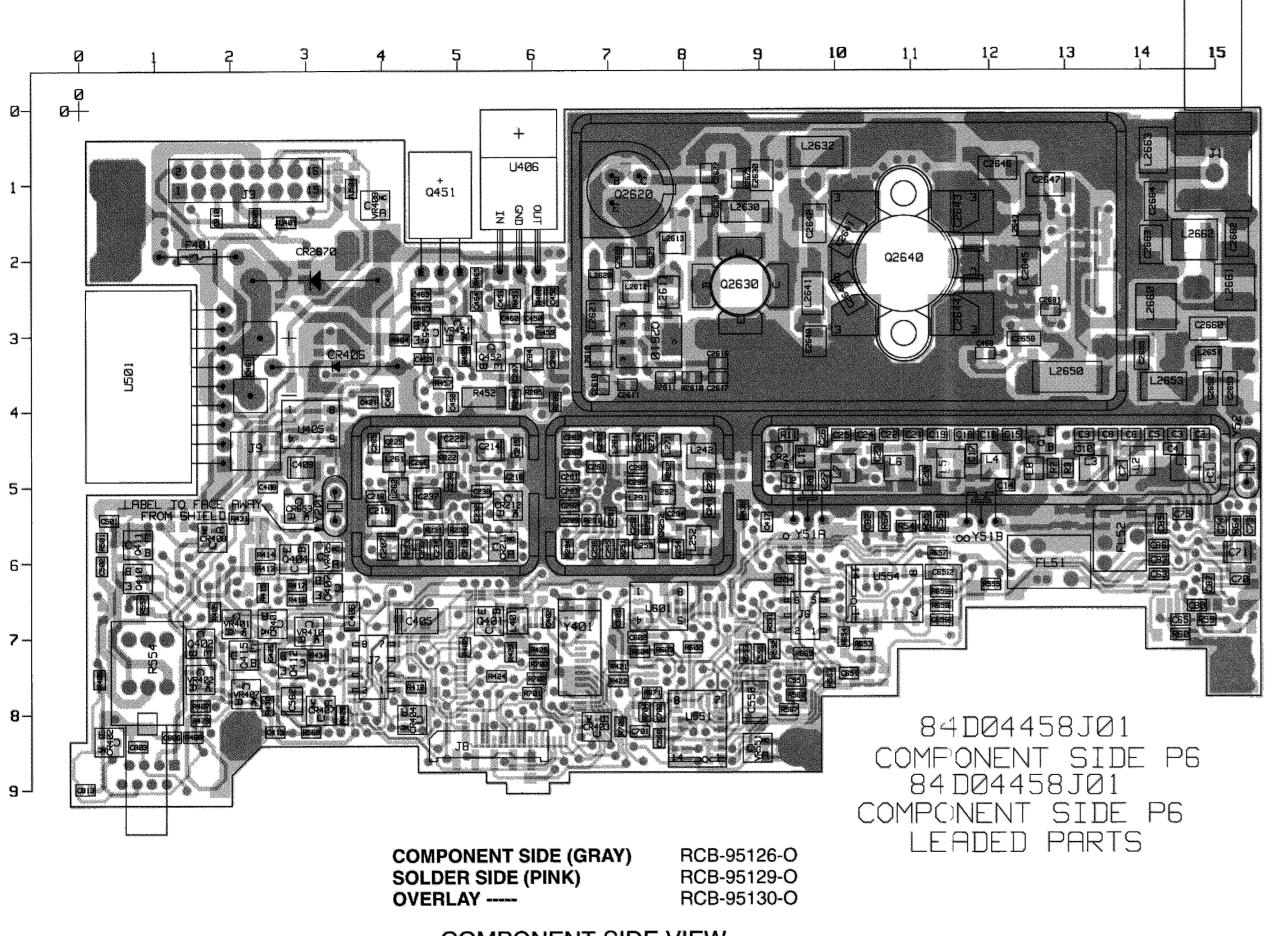
SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts

SM50/SM120 UHF Main Board, 450-470 MHz, 10-25 Watts DI 604044 A

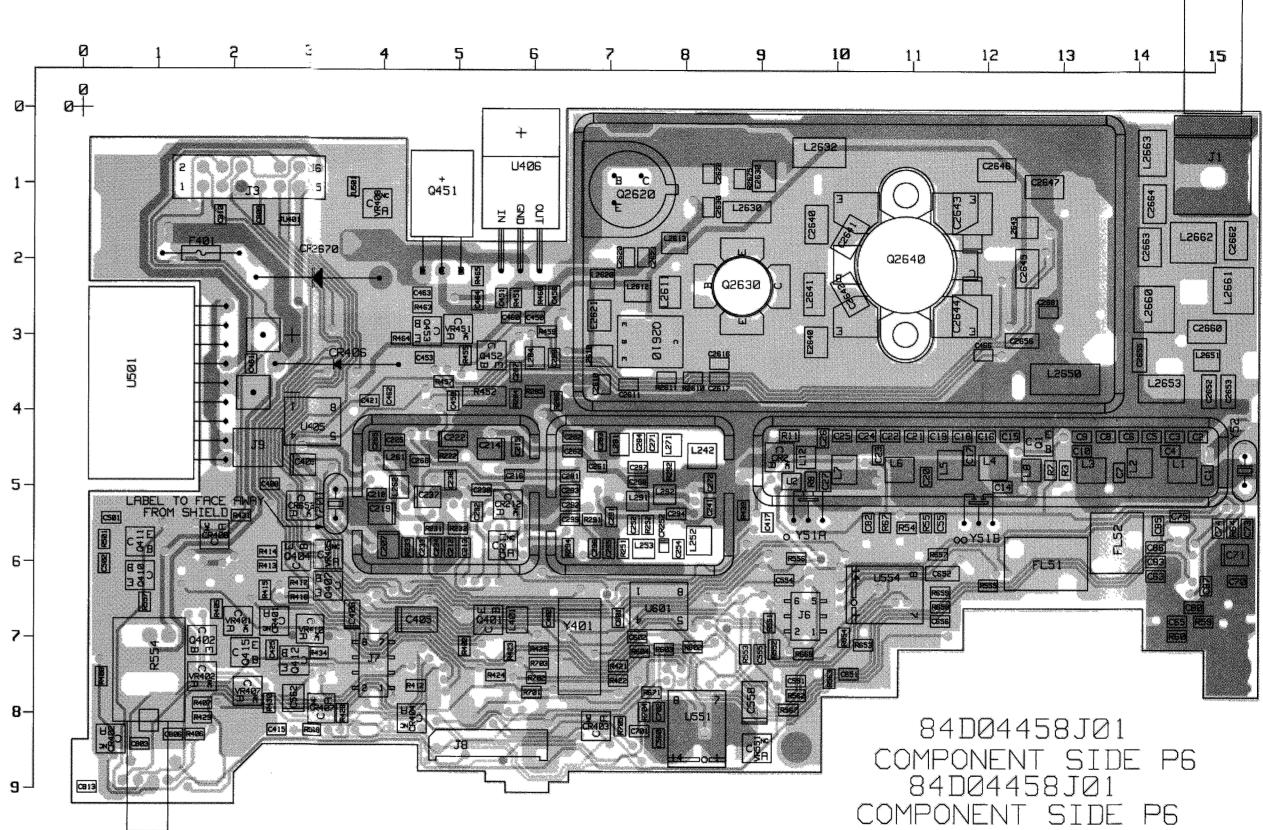
PMUE1007 &	PMUE1055) PL-95101	1-A
TOROLA ART NO.	DESCRIPTION	
-62057C66	430	
-62057C46	62	
-62057C91	4.7k	
-62057D24	100k	
62057C91	4.7k	
-62057D35	300k 3k	
62057C86	100k	
-62057D32	220k	
-62057D29	160k	
62057C94	6.2k	
62057C27	10	
S-62057C57	180	
3-62057C59	220	
3-62057C53	120	
5-62057C36	24	
•	Not Used	
3-62057C27	Not Used 10	
5-82057027 5-80194M23	82 1 watt	
	Not Used	
•	Not Used	
6-80195M25	100 1/2 watt	
5-62057C91	4.7k	
6-62057C99	10k	
6-62057D04	15k	
	a are and a	
	integrated circuit: (see note)	
1-80505D01	double-balanced mixer	
8-09939C04	dual transistor switch UMC3TL	
1-80207R01	receiver system synthesizer	
ee note) 1-02227S66	VCO/buffer	
1-99010D01	microcomputer MC68HC711E9	
1-02227J35	audio filter	
1-05226P38	DAC	
1-80633C01	5 V regulator TK11950	
1-05469E65	5 V regulator LP2951C	
1-13816D03	8 V regulator MC7808BT	
1-80932W01	dual op-amp LM2904 SOIC	
1-80147R01	audio power amp TDA1519AB	
1-02198J28	quad op-amp LM2902D SOIC triple 2-channel switch 4053B	
1-84704M60	quad bilateral switch 4066B	
1-84704M52 1-02198J23	dual comparator LM2903 SOIC	
1-02130023	ODBI COMPARATOR EMILLOUG CORO	
	voltage regulator: (see note)	
8-80140L06	zener diode 5.1V SOT	
8-80948V01	zener diode 27V SOT	
8-80140L15	zener diode 10V SOT	
8-80948V01	zener diode 27V SOT	
8-80140L15	zener diode 10V SOT	
8-80948V01	zener diode 27V SOT	
8-80140L12	zener diode 8.2V SOT	
8-80140L15	zener diode 10V SOT	
	crystal: (see note)	
1-80112R06	filter 45.1 MHz 12.5 kHz	
*** \$252 1 1361 1865	(includes Y51A and Y51B)	
1-80112R05	filter 45.1 MHz 25 kHz	
	(includes Y51A and Y51B)	
18-80008K02	44.645 MHz	
see note)	16.8 MHz	
18-80113R01	7.9488 MHz	
non-refe	renced items	
14-80168S01	crystal insulator (2 used for Y52, Y	201
26-04398J01	VCO/synthesizer shield (4 used)	
26-04399J01	receiver mixer bottom shield	
26-04400J01	receiver front end top shield	
26-04419J01	PA shield frame	
26-04420J01	PA shield cover	
42-80281L01	ground clip (2 used for Q2640)	

Designators marked with an (*) denote parts which are not field serviceable. Recalibration of the radio using specialized factory equipment is mandatory when these components are replaced in order to guarantee the specified frequency stability of the radio at temperature extremes.

Parts List for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 10-25 W (Part of PMUE1006A, PMUE1007A, PMUE1054A, and PMUE1055A Radios)



COMPONENT SIDE VIEW

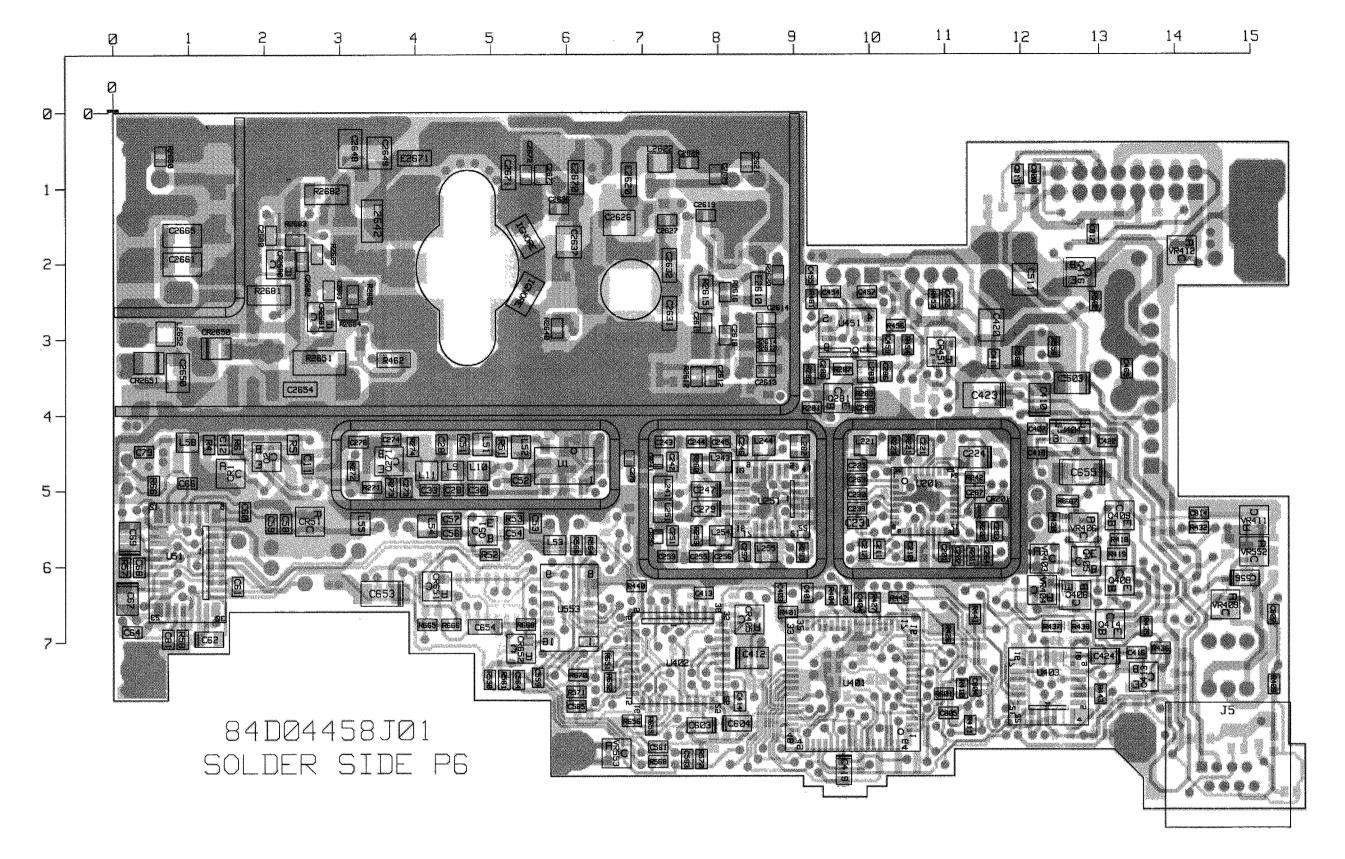


COMPONENT SIDE INNER LAYER (GRAY) SOLDER SIDE INNER LAYER (PINK) RCB-95127-0 RCB-95128-0 RCB-95130-0 OVERLAY -----

COMPONENT SIDE VIEW

LEADED PARTS

Circuit Board Details for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 40 W (Part of PMUE1039A, PMUE1040A, PMUE1056A, and PMUE1057A Radios)

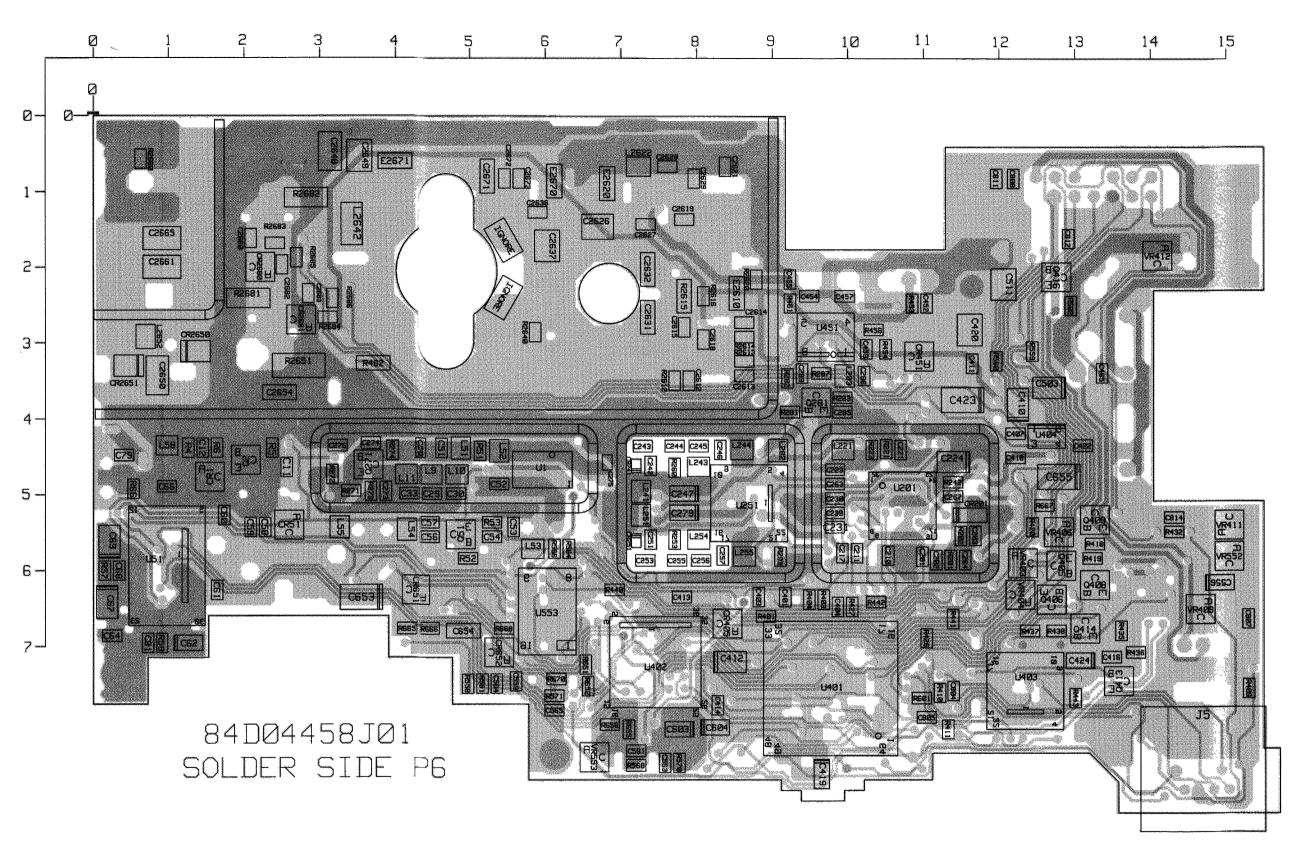


COMPONENT SIDE (GRAY)RCB-99SOLDER SIDE (PINK)RCB-99OVERLAY -----RCB-99

RCB-95126-O (REV) RCB-95129-O (REV) RCB-95131-O (REV)

SOLDER SIDE VIEW

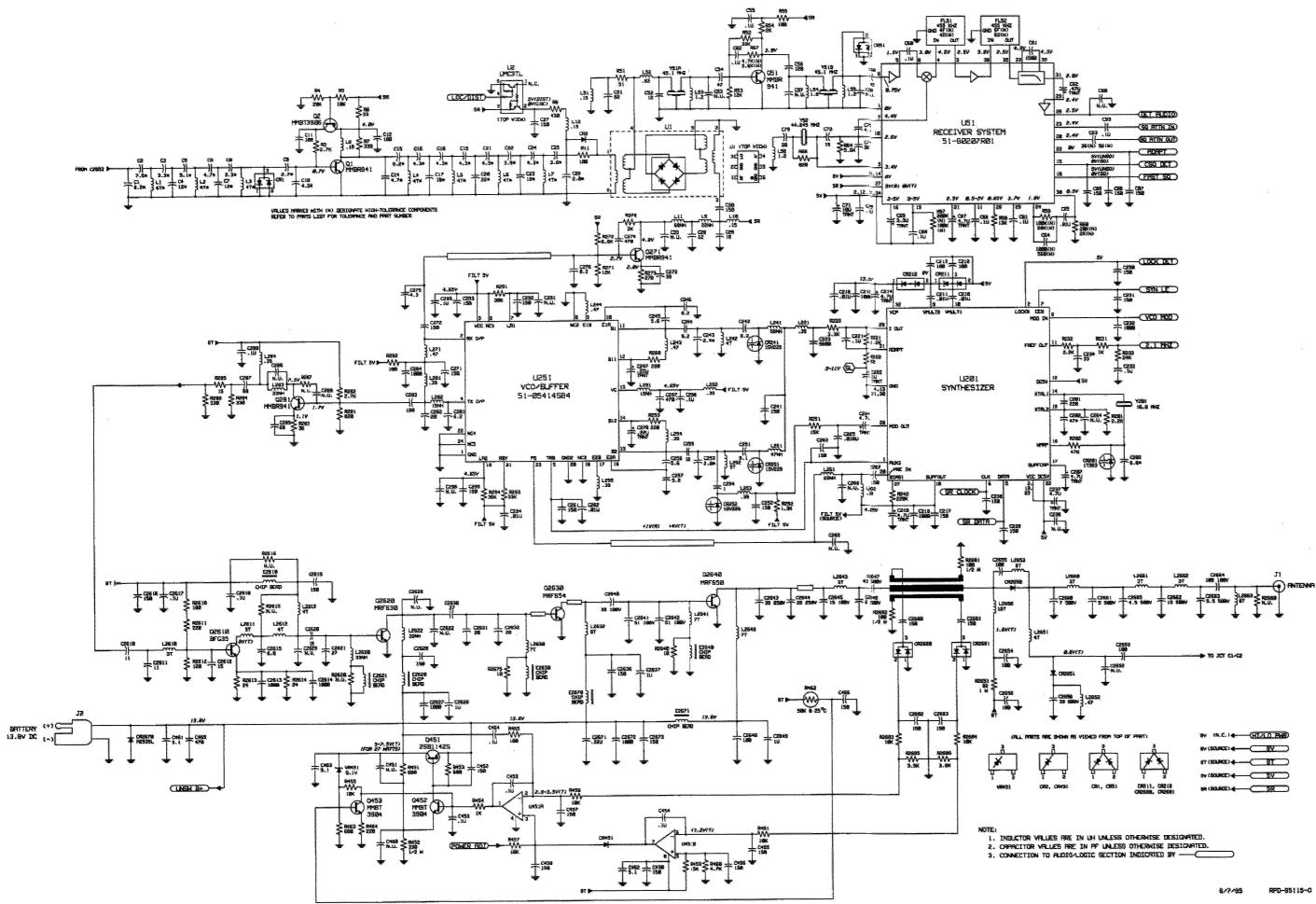
Circuit Board Details for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 40 W (Part of PMUE1039A, PMUE1040A, PMUE1056A, and PMUE1057A Radios)



COMPONENT SIDE INNER LAYER (GRAY) SOLDER SIDE INNER LAYER (PINK) OVERLAY -----

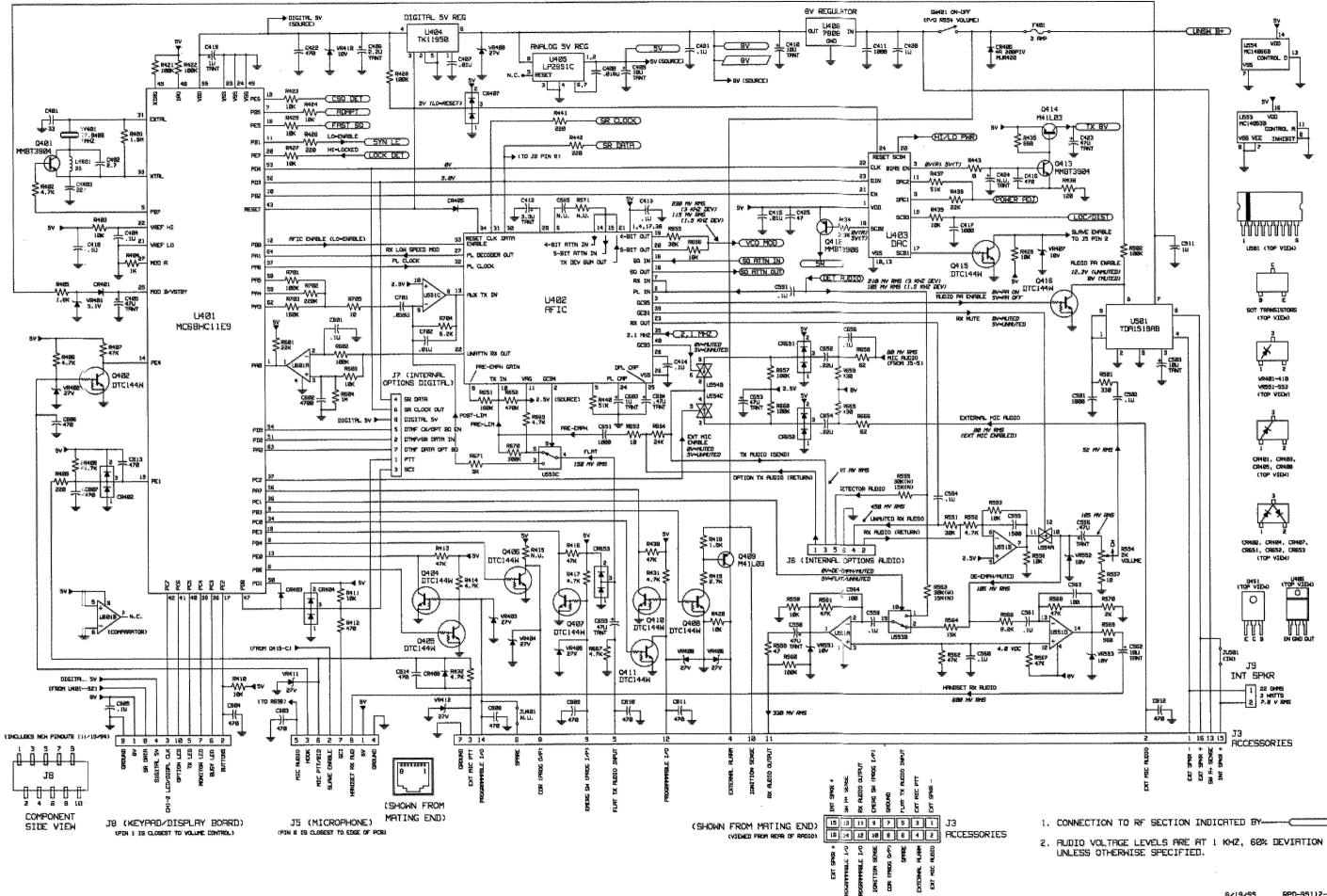
SOLDER SIDE VIEW

RCB-95127-O (REV) RCB-95128-O (REV) RCB-95131-O (REV)



Schematic Diagram for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 40 W (Part of PMUE1039A, PMUE1040A, PMUE1056A, and PMUE1057A Radios) (Sheet 1 of 2)

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Schematic Diagram for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 40 W (Part of PMUE1039A, PMUE1040A, PMUE1056A, and PMUE1057A Radios) (Sheet 2 of 2)

Parts List

SM50/SM120 UHF Main Board, 450-470 MHz, 40 Watts, 12.5 kHz (N) (Used in PMUE1039 & PMUE1056) SM50/SM120 UHF Main Board, 450-470 MHz, 40 Watts, 20/25 KHz (W) (used in PMUE1040 & PMUE1057) PL-951012-A

REFERENCE	MOTOROLA	DECOMPTION
SYMBOL	PART NO.	DESCRIPTION
		capacitor, fixed: uF +/-5%; 50 V: unless otherwise stated
C1	21-13740G21	5.6 ±0.1 pF
C2	21-13740G24	6.8 ±0.1 pF
C3	21-13740G16	3.6 ±0.1 pF
C4 C5	21-13740G30 21-13740G27	11 pF 2% 3.9 ±0.1 pF
Č6	21-13740G23	6.2 ±0.1 pF
C7	21-13740G28	9.1 pF 2%
C8	21-13740G12	2.4 ±0.1 pF
C9 C10	21-13740G13 21-13740G12	2.7±0.1 pF
C11	21-13740G12 21-13740A55	2.4 ±0.1 pF 100 pF
C12	21-13740A55	100 pF
C14	21-13740L05	3.0 ±0.1 pF
C15	21-13740G25	7.5±0.1 pF
C16 C17	21-13740G18 21-13740G32	4.3 ±0.1 pF 13 pF 2%
Č18	21-13740G18	4.3 ±0.1 pF
C19	21-13740G18	4.3 ±0.1 pF
C20	21-13740G34	16 pF 2%
C21	21-13740G18 21-13740G17	4.3 ±0.1 pF
C22 C23	21-13740G32	3.9 ±0.1 pF 13 pF 2%
C24, 25	21-13740G18	4.3 ±0.1 pF
C26	21-13740G10	2.0 ±0.1 pF
C27	21-13740A59	150 pF
C28 C29	21-13740A31 21-13740A35	12 pF 18 pF
C30	21-13740A59	150 pF
Č33	***	Not Used
C51	21-13740A53	82 pF
C52	21-1 3740A 31	12 pF
C53 C54	21-13740A46	Not Used 47 pF
C55	21-13743A19	0.1 uF 10%; 16 V
C56	21-13740A57	120 pF
C57, 58	***	Not Used
C59	21-13740A53	82 pF
C60 C61	21-13743A19 21-13741A25	0.1 uF 10%; 16 V 1500 pF
C62	23-11049A05	tantalum 0.47 uF 10%; 25 V
C63(N)	21-13740A42	36 pF
C63(W)	21-13740A49	56 pF
C64(N)	21-13740A79	1000 pF
C64(W) C65	21-13740A73 21-13741A45	560 pF .01 uF
C66	21-13743A19	0.1 uF 10%; 16 V
C67	23-11049J11	tantalum 4.7 uF 10%; 16 V
C68	21-13743A19	0.1 uF 10%; 16 V
C69 C70	23-11049J07 21-13743A19	tantalum 3.3 uF 10%; 20 V 00.1 uF 10%; 16 V
C71	23-11049A57	tantalum 10 uF 10%; 16 V
C73	21-13740A33	15 pF
C74	21-13740A42	36 pF
C75	21-13740A18	4.3 ±0.25 pF
C79 C80	21-13740A36	20 pF Not Used
C81 thru 83	21-13743A19	0.1 uF 10%; 16 V
C85 thru 87	21-13740A59	150 pF
C201	21-13740A63	220 pF
C202	21-13740G46	47 pF 2%
C203 C207	21-13740G24 23-11049J11	6.8 ±.01 pF tantalum 4.7 uF 10%; 16 V
C210, 211	21-13741A45	.01 uF
C212, 213	21-13740A55	100 pF
C214	23-11049J11	tantalum 4.7 uF 10%; 16 V
C215	21-13740A79	1000 pF
C216 C217	21-13741A45 21-13740A59	.01 uF 150 pF
C218	21-13740A79	1000 pF
C219	23-11049J11	tantalum 4.7 uF 10%; 16 V
C221	21-13743A19	0.1 uF 10%; 16 V
C222	23-11049A07	tantalum 1 uF 10%; 16 V
C223 C224	21-13741A39 23-11049J11	5600 pF tantalum 4.7 uF 10%; 16 V
C225	21-13741A51	.018 uF
C230, 231	21-13740A59	150 pF
C232	21-13740A79	1000 pF
C233	21-13743A19	0.1 uF 10%; 16 V
C234	21-13740A41	33 pF

REFERENCE	MOTOROLA	& PMUE1057) PL-951012-
SYMBOL	PART NO.	DESCRIPTION
C236		Not Used
C237	23-11049J11	tantalum 4.7 uF 10%; 16 V
C238, 239 C241	21-13740A59 21-13740A59	150 pF 150 pF
C242	21-13740A27	8.2 ±0.25 pF
C243	21-13740G12	2.4 ±0.1 pF
C244	21-13740A23	6.2 ±0.25 pF
C245	21-13740A21	5.6 ±0.25 pF
C246	21-13740A23	6.2 ±0.25 pF
C247 C251	23-11049A03 21-13740A27	tantalum 0.22 uF 10%; 35 V 8.2 ±0.25 pF
C252	21-13740A59	150 pF
C253	21-13740G09	1.8±0.1 pF
C254	21-13740A03	1 ±0.25 pF
C255	21-13740A31	12 pF
C256, 257	21-13740A21	5.6±0.25 pF
C261 C262	21-13740A59 21-13741A45	150 pF
C262	21-13740A59	.01 uF 150 pF
C264 thru 266	***	Not Used
C267	21-13740A59	150 pF
C271, 272	21-13740A59	150 pF
C273	21-13740A43	39 pF
C274 C275	21-13740A71 21-13740F18	470 pF
C275	21-13740F18	4.3 ±0.25 pF 8.2 ±0.25 pF
C279	23-11049A03	tantalum 0.22 uF 10%; 35 V
C281	21-13740A23	6.2 ±0.25 pF
C282	21-13740A36	20 pF
C283	21-13740A59	150 pF
C284	21-13740A79	1000 pF
C285 C286	21-13740A51	68 pF Not Used
C287	21-13740A51	68 pF
C288	21-13743A19	0.1 uF 10%; 16 V
C289	***	Not Used
C291		Not Used
C292, 293	21-13740A59	150 pF
C294 C295	21-13741A45 21-13740A59	.01 uF 150 pF
C296	21-101-40/100	Not Used
C297	21-13740A71	470 pF
C298, 299	21-13743A19	0.1 uF 10%; 16 V
C401	21-13740A41	33 pF
C402	21-13740A13	2.7 ±0.25 pF
C403 C404	21-13740A37 21-13743A19	22 pF 0.1 uF 10% 16 V
C404 C405	23-11049J43	tantalum 47 uF 10%; 10 V
C406	23-11049A40	tantalum 2.2 uF 10%; 10 V
C407	21-13741A45	.01 uF
C408	21-13741A51	.018 uF
C409, 410	23-11049A57	tantalum 10 uF 10%; 16 V
C411	21-13740A79	1000 pF
C412 C413, 414	23-11049J07 21-13743A19	tantalum 3.3 uF 10%; 20 V 0.1 uF 10%; 16 V
C415	21-13741A45	.01 uF
C416	21-13740A71	470 pF
C417	21-13740A79	1000 pF
C418	21-13743A19	0.1 uF 10%; 16 V
C419	23-11049A07	tantalum 1 uF 10%; 16 V
C420 C421	21-13741W01 21-13743A19	1 uF 10%; 25 V 0.1 uF 10%; 16 V
C422	21-13740A71	470 pF
C423	23-11049J43	tantalum 47 uF 10%; 10 V
C424	-24-2	Not Used
C425	21-13740A46	47 pF
C450	21-13740A28	9.1 ±0.25 pF
C451		Not Used
C452 C453, 454	21-13740A59 21-13743A19	150 pF 0.1 uF 10%; 16 V
C455 thru 458	21-13740A59	150 pF
C459	21-13743A19	0.1 uF 10%; 16 V
C460	***	Not Used
C461	21-13740A20	5.1 ±0.25 pF
C462	21-13740A59	150 pF
C463	21-13740A20	5.1 ±0.25 pF
C464	21-13743A19	0.1 uF 10%; 16 V
C465 C466	21-13740A71 21-13740A59	470 pF 150 pF
C501	21-13740A59 21-13740A79	150 pF 1000 pF
C502	21-13743A19	0.1 uF 10%; 16 V

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SM50/SM120 UHF Main Board, 450-470 MHz, 40 Watts, 20/25 kHz (W) (used in PMUE1040 & PMUE1057) PL-951012-/			
REFERENCE	MOTOROLA PART NO.	DESCRIPTION	
C503	23-11049A57	tantalum 10 uF 10%; 16 V	
C511	21-13741W01	1 uF 10%; 25 V	
C551	21-13743A19	0.1 uF 10%; 16 V	
C554 C555	21-13743A19 21-13741A79	0.1 uF 10%; 16 V 1000 pF	
C556	23-11049A05	tantalum .47 uF 10%; 25 V	
C558	23-11049J43	tantalum 47 uF 10%; 10 V	
C559 thru 561	21-13743A19	0.1 uF 10% 16 V	
C562	23-11049A57	tantalum 10 uF 10%; 16 V	
C563, 564 C565	21-13740A55	100 pF Not Used	
C601	21-13743A19	0.1 uF 10%; 16V	
C602	21-13741A37	4700 pF	
C603	23-11049A07	tantalum 1 uF 10%; 16 V	
C604	23-11049A05	tantalum 0.47 uF 10%; 25 V	
C651 C652	21-13740A79 21-11032B15	1000 pF 0.22 uF +80/-20%	
C653	23-11049J43	tantalum 47 uF 10%; 10 V	
C654	21-11032B15	0.22 uF +80/-20%	
C655	23-11049J43	tantalum 47 uF 10%; 10 V	
C656	21-13743A19	0.1 uF 10%; 16 V	
C701 C702	21-13741A59 21-13741A45	.039 uF .01 uF	
C803, 804	21-13740A71	470 pF	
C805	21-13743A19	0.1 uF 10%; 16 V	
C806 thru 814	21-13740A71	470 pF	
C2610	21-13740A30	11 pF	
C2611 C2612	21-13740A29 21-13740A33	10 pF 15 pF	
C2612 C2613, 2614	21-13740A33	1000 pF	
C2615	21-13740A24	6.8 ±0.25 pF	
C2616	21-13740A59	150 pF	
C2617, 2618	21-13743A19	0.1 uF 10%; 16 V	
C2619	21-13740A59	150 pF	
C2620 C2621	21-13740A33 21-13740A39	15 pF 27 pF	
C2622, 2623	***	Not Used	
C2626	21-13741W01	1 uF 10%; 25 V	
C2627	21-13740A79	1000 pF	
C2628	21-13740A59	150 pF	
C2629 C2630	21-13740A39	Not Used 27 pF	
C2631, 2632	21-13740B32	20 pF	
C2636	21-13740A59	150 pF	
C2637	21-13741W01	1 uF 10%; 25 V	
C2639	21-11078B18	15 pF; 100 V	
C2640 C2641	21-11078B34 21-11078B35	47 pF 100 V 51 pF 100 V	
C2642	21-11078B36	56 pF; 100 V	
C2643, 2644	21-80964X35	clamped mica 39 pF 250 V	
C2645	21-11078B18	15 pF 100 V	
C2646	21-80060M15	8 ±0.5pF 500 V	
C2647 C2648	21-80060M34 21-13740B49	43 pF 500 V 100 pF	
C2649	21-13740649 21-13741W01	1 uF 10%; 25 V	
C2650	21-80060M33	39 pF 500 V	
C2652	21-13740A10	2.0 pF	
C2653	21-13740A36	20 pF	
C2654 thru 2656 C2660	21-13740B49 21-80060M13	100 pF 7 ±0.5 pF 500 V	
C2661	21-11078B05	4.7 ±0.2 pF 100 V	
C2662	21-80060M22	13 pF 500 V	
C2663	21-80060M11	6 ±0.5 pF 500 V	
C2664	21-80060M43	100 pF 100 V	
C2665 C2671	21-11078B05 21-11032B15	4.7 ±0.25 pF 100 V	
C2671	21-11032B15 21-13740A79	0.22 uF +80/-20% 1000 pF	
C2673	21-13740A59	150 pF	
C2680 thru 2683	21-13740A59	150 pF	
		aller alla in the second	
CD1	10.00154400	diode: (see note)	
CR1 CR2	48-80154K03 48-80142L01	dual Schottky SOT silicon PIN SOT MMBV3401	
CR51	48-80154K03	dual Schottky SOT	
CR201	48-02245,122	silicon varactor SOT 1T363	
CR211, 212	48-13833C07	dual silicon SOT MMBD7000	
CR241	48-62824C01	silicon varactor SOT 1SV229	
CR251, 252	48-62824C01	silicon varactor SOT 1SV229	
CR401 CR402	48-05129M76 48-13833C07	silicon SOT dual silicon SOT MMBD7000	
CR402 CR403	48-80939T01	Schottky SOT	

SM50/SM120 UHF Main Board, 450-470 MHz, 40 Watts, 12.5 kHz (N) (Used in PMUE1039 & PMUE1056)

REFERENCE	MOTOROLA		
SYMBOL	PART NO.	DESCRIPTION	
CR404	48-13833C07	dual silicon SOT MMBD7000	
CR405	48-05129M76	silicon SOT	
CR406	48-83553T02	4A 200 PIV MUR420	
CR407 CR408	48-13833C07 48-05129M76	dual silicon SOT MMBD7000	
CR451	48-05129M76	silicon SOT silicon SOT	
CR651 thru 653	48-13833C07	dual silicon SOT MMBD7000	
CR2650, 2651	48-02482J02	silicon PIN MA4P1250	
CR2670	48-80236E07	transient suppressor	
CR2680, 2681	48-82290T02	dual Schottky SOT HSMS-2802	
		ferrite beads:	
E2610	24-84657R01	ferrite bead	
E2620, 2621 E2630	24-84657R01	ferrite bead ferrite bead	
E2640	24-84657R01 24-84657R01	ferrite bead	
E2670, 2671	24-84657R01	ferrite bead	
		fuse:	
F401	65-05214E04	2 amp axial lead	
** 1 #37811		filler:	
FL51(N)	91-80098D04	455 kHz 4F	
FL51(W) FL52(N)	91-80098D06 91-80097D04	455 kHz 4D 455 kHz 6F	
FL52(W)	91-80097D06	455 kHz 6D	
		connector, receptacle:	
JI	09-09006C01	mini UHF coax	
J2	30-04510J01	power cable assembly (includes J2)	
73	28-04503J01	16-pin, accessories	
J5	09-04426J01	telephone type, 8 contact, microphone	
J6 J7	09-04424J05	6-pin, internal options audio	
J8	09-04424J06 09-04422J02	8-pin, internal options digital 10-pin, display board	
<u>J9</u>	28-04423J01	2-pin, internal speaker	
		jumper:	
JU401		Not Used	
JU501	06-62057C01	jumper	
		coil, rf:	
L1 thru 7	24-84562T11	4 turns airwound 2%	
L8	24-62587X55	chip 0.15 uH 5%	
L9 L10	24-62587X45 24-83411T63	chip 22 nH 5%	
L11	24-62587X51	0.15 uH 5% shielded chip 68 nH 5%	
L12	24-62587X55	chip 0.15 uH 5%	
L51	24-62587X55	chip 0.15 uH 5%	
L52	24-62587X63	chip 0.62 uH 5%	
L53	24-62587X69	chip 1.2 uH 5%	
L54	24-62587N71	chip 1.8 uH 5%	
L55	24-62587X69	chip 1.2 uH 5%	
L58	24-62587X69	chip 1.2 uH 5%	
L221 L241	24-62587X60 24-62587X50	chip 0.39 uH 5%	
L241 L242	24-62587X50 24-84562T11	chip 56 nH 5% 4 turns airwound 2%	
L243, 244	24-62587X61	chip 0.47 uH 5%	
L251	24-62587X49	chip 47 nH 5%	
L252	24-84562T13	3 turns airwound 2%	
L253 thru 255	24-62587X60	chip 0.39 uH 5%	
L261	24-62587X45	chip 22 nH 5%	
L262	24-62587X60	chip 0.39 uH 5%	
L271	24-62587X61	chip 0.47 uH 5%	
L281	24-62587X60	chip 0.39 uH 5%	
L282	24-62587X43	chip 15 nH 5%	
L283 L284	24-62587X47	chip 33 nH 5%	
L204 L291	24-62587X60 24-62587X43	chip 0.39 uH 5% chip 15 nH 5%	
L292	24-62587X60	chip 0.39 uH 5%	
L401	24-60578C43	chip 33 uH	
L2610	24-60591A01	3 turns	
L2611	24-60591C73	5 turns	
	24-60591B17	4 turns	
L2612			
L2612 L2613	24-60591B73	4 turns	
L2613 L2620	24-62587T40	chip 33 nH 5%	
L2613 L2620 L2622	24-62587T40 24-62587T40	chip 33 nH 5% chip 33 nH 5%	
L2613 L2620	24-62587T40	chip 33 nH 5%	

	ad in PMUE1040	& PMUE1057) PL-951012-
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
L2642	24-60591E69	7 turns
L2643	24-60591A13	3 turns
L2650	24-60591V77	12 turns
L2651	24-60591B77	4 turns
L2652	24-11087B22	chip 0.47 uH
L2653	24-60591R53	8 turns
L2660	24-60591X01	3 turns
L2661, 2662	24-60591X01	3 turns
L2663	24-60591R53	8 turns
~.	*******	transistor: (see note)
Q1	48-13827A07	NPN; type MMBR941
Q2	48-13824A17	PNP; type MMBT3906
Q51 Q271	48-13827A07	NPN; type MMBR941
ALC: NOT THE REPORT OF THE REP	48-13827A07	NPN; type MMBR941
Q281	48-13827A07	NPN; type MMBR941
Q401	48-80214G02	NPN; type MMBT3904
Q402	48-80947V01	digital NPN; type DTC144W
Q404 thru 408	48-80947V01	digital NPN; type DTC144W
Q409	48-80141L03	PNP, type M41L03
Q410, 411	48-80947V01	digital NPN; type DTC144W
Q412	48-13824A17	PNP; type MMBT3906
Q413	48-80214G02	NPN; type MMBT3904
Q414	48-80141L03	PNP, type M41L03
Q415, 416	48-80947V01	digital NPN; type DTC144W
Q451	48-02245J25	PNP; type 2SB1142S
Q452, 453	48-80214G02	NPN; type MMBT3904
Q2610	48-02245J24	NPN; type BFG35
Q2620	48-80225C09	NPN; type MRF630
Q2630	48-80225C19	NPN; type MRF654
Q2640	48-80225024	NPN; type MRF650
		resistor, fixed: +/-5%; 1/10 W:
		unless otherwise stated
R3	06-62057C85	2.7k
R4	06-62057D07	20k
R5	06-62057C99	10k
R6	06-62057C39	33
R7	06-62057C63	330
R8	06-62057C66	430
R11	06-62057C51	100
R51	06-62057C44	51
R52	06-62057D12	33k
R53	06-62057D02	12k
R54	06-62057C82	2k
R55	06-62057C51	100
R57(N)	06-62057D31	200k
R57(W)	06-62057D24	100k
R58	06-62057D03	13k
R59(N)	06-62057D24	100k
R59(W)	06-62057D20	68k
R60(N)	06-62057D07	20k
R60(W)	06-62057C82	2k
R64	06-62057C93	5.6k
R66	06-62057C73	820
R67(N)	06-62057C91	4.7k
R67(W)	06-62057C93	5.6k
R201	06-62057C83	2.2k
R202	06-62057D16	47k
R221	06-62057C83	2.2k
R222	06-62057C49	82
R223	06-62057C87	3.3k
R231	06-62057C75	1k
R232	06-62057C83	2.2k
R233	06-62057D09	24k
R242	06-62057D32	220k
n242 R251	06-62057D32	
		15k
R252	06-62057C78	1.3k
R253	06-62057C59	220
R260	06-62057C59	220
R271	06-62057D02	12k
R272	06-62057C95	6.8k
R273	06-62057C61	270
R274	06-62057C82	2k
R281	06-62057C73	820
R282	06-62057C85	2.7k
R283	06-62057C47	68
R284	06-62057C63	330
R285	06-62057C31	15
R286	06-62057C63	330
R287	***	Not Used

SM50/SM120 U+# 20/25 kHz (W) (Ls	d in PMUE1039 & ⁻ Main Board, 450 ed in PMUE1040 i	-470 MHz, 40 Watts	12.5 kHz (N) (Use SM50/SM120 UHI 20/25 kHz (W) (us	⁼ Main I
REFERENCE	MOTOROLA PART NO.	DESCRIPTION	REFERENCE	MOT
R291	06-62057D14	39k	R655	06-6
R292	06-62057C51	100	R656	06-6
R293	06-62057D12	33K	R657	06-6
R294 R401	06-62057D13	36k	R658	06-6
R402	06-62057D54 06-62057C91	1.8 meg.	R659	06-6
R403	06-62057C99	4.7k 10k	R665	06-6
R404	06-62057C75	1k	R666 R667	06-6
R405	06-62057C81	1.8k	R668	06-6
R406	06-62057C91	4.7k	R669	06-6
R407	06-62057D16	47k	R670	06-6
R408 R409	06-62057C91	4.7k	R671	06-6
R410, 411	06-62057C59 06-62057C99	220 10k	R701	06-6
R412	06-62057C67	470	R702	06-6
R413	06-62057D16	47k	R703 R704	06-6
R414	06-62057C91	4.7k	R705	06-6 06-6
R415		Not Used	R2610	06-6
R416	06-62057D16	47k	R2611	06-6
R417	06-62057C91	4.7k	R2612	06-6
R418 R419	06-62057C79	1.5k	R2613, 2614	06-6
R420	06-62057C85	2.7k	R2615, 2616	
R421, 422	06-62057C99	10k	R2620, 2621	****
R423 thru 425	06-62057D24 06-62057C99	100k 10k	R2640	06-6
R426	06-62057C27	10	R2651	06-8
R427	06-62057C99	10k	R2660	***
R428	06-62057D24	100k	R2675	06-6
R429	06-62057C99	10k	R2681, 2682	06-8
R430	06-62057D16	47k	R2683, 2684 R2685, 2686	06-6
R431, 432	06-62057C91	4.7k	112000, 2000	00-0.
R434 R435	06-62057C87	3.3k		
R436	06-62057C71	680	UI	51-8
R437	06-62057C53 06-62057D17	120 51k	U2	48-0
R438	06-62057D08	22k	U51	51-8
R439	06-62057C99	10k	U201*	(see
R440	06-62057D17	51k	U251	51-0
R441, 442	06-62057C27	10	U401	51-9
R443	06-62057C01	0	U402 U403	51-0
R451	06-62057C71	680	U404	51-0 51-8
R452	06-80195M37	330 1/2 watt	U405	51-0
R453 R454	06-62057C71	680	U406	51-1
R455 thru 457	06-62057C75 06-62057C99	1k 10k	U451	51-8
R459	06-62057D04	15k	U501	51-80
R460	06-62057C91	4.7k	U551	51-02
R461	06-62057C99	10k	U553	51-84
R462	06-05621T02	thermistor 50k @ 25°C	U554	51-84
R463	06-62057C71	680	U601	51-02
R464	06-62057C59	220		
R465 R501	06-62057C51	100	VR401	48-80
R502	06-62057C63 06-62057D24	330	VR402 thru 406	48-80
R551	06-62057D24	100k 30k	VR407	48-80
R552, 553	06-62057D02	12k	VR408, 409	48-80
R554	18-04405J02	variable 2k with switch	VR410	48-80
R555(N)	06-62057C27	10	VR411, 412	48-80
R555(W)	06-62057D11	30k	VR451 VR551 thru 553	48-80
R556	06-62057C99	10k	CCC URB LEGRIV	48-80
R557 R558	06-62057C27	10		
R559	06-62057C99 06-62057C43	10k	Y51(N)	91-80
R560	06-62057C43	47 100k		
R561, 562	06-62057D16	47k	Y51(W)	91-80
R563(N)	06-62057D04	15k		
R563(W)	06-62057D11	30k	Y52	48-80
R564	06-62057D04	15k	Y201*	(see
R566	06-62057C97	8.2k	Y401	48-80
R567, 568	06-62057D16	47k		
R569	06-62057C69	560		14-80
R570	06-62057C82	2k		26-04
R571 R601		Not Used		26-04
R602	06-62057D08 06-62057D24	22k 100k		26-04
R603	06-62057C99	100k 10k		26-04
R604	06-62057D48	1 meg		26-04
R651	06-62057D30	180k	100000 V. C	42-80
R652	06-62057D40	470k	note: For optimum	perform
and the second of			must be ordered by	Motorc
R653 R654	06-62057C27	10	must be broched by	111111111111111

Designators marked with an (*) denote parts which are not field serviceable. Recalibration of the radio using specialized factory equipment is mandatory when these components are replaced in order to guarantee the specified frequency stability of the radio at temperature extremes.

0 UHF Main Board, 450-470 MHz, 40 Watts, (Used in PMUE1039 & PMUE1056) DUHF Main Board, 450-470 MHz, 40 Watts,

USE	in PMUE1040	-470 MHz, 40 Watts, & PMUE1057) PL-951012-A
	MOTOROLA	
	PART NO.	DESCRIPTION
	06-62057D11	30k
	06-62057C99	10k
	06-62057D24 06-62057C46	100k
	06-62057C66	62 430
	06-62057C66	430
	06-62057C46	62
	06-62057C91	4.7k
	06-62057D24	100k
	06-62057C91 06-62057D35	4.7k 300k
	06-62057C86	3k
	06-62057D24	100k
	06-62057D32	220k
	06-62057D29	160k
	06-62057C94 06-62057C27	6.2k 10
	06-62057C57	180
	06-62057C59	220
	06-62057C53	120
	06-62057C36	24
	***	Not Used
	06-62057C27	Not Used
	06-80194M23	82 1 watt
	***	Not Used
	06-62057C27	10
	06-80195M25	100 1/2 watt
	06-62057C99 06-62057C89	10k 3.9k
	00-02007-065	3.8K
		integrated circuit: (see note)
	51-80505D01	double-balanced mixer
	48-09939C04	dual transistor switch UMC3TL
	51-80207R01	receiver system
	(see note) 51-02227S66	synthesizer VCO/buffer
	51-99010D01	microcomputer MC68HC711E9
	51-02227J35	audio filter
	51-05226P38	DAC
	51-80633C01	5 V regulator TK11950
	51-05469E65 51-13816D03	5 V regulator LP2951C 8 V regulator MC7808BT
	51-80932W01	dual op-amp LM2904 SOIC
	51-80147R01	audio power amp TDA1519AB
	51-02198J28	quad op-amp LM2902D SOIC
	51-84704M60	triple 2-channel switch 4053B
	51-84704M52 51-02198J23	quad bilateral switch 4066B dual comparator LM2903 SOIC
	er a mene i vervõõõõõõd	
		voltage regulator: (see note)
	48-80140L06	zener diode 5.1 V SOT
5	48-80948V01 48-80140L15	zener diode 27 V SOT
	48-80948V01	zener diode 10 V SOT zener diode 27 V SOT
	48-80140L15	zener diode 10 V SOT
	48-80948V01	zener diode 27 V SOT
3	48-80140L14	zener diode 9.1 V SOT
3	48-80140L15	zener diode 10 V SOT
		crystal: (see note)
	91-80112R06	filter 45.1 MHz 12.5 kHz
		(includes Y51A and Y51B)
	91-80112R05	filter 45.1 MHz 25 kHz
	48-80008K02	(includes Y51A and Y51B) 44,645 MHz
	(see note)	44.045 MHz
	48-80113R01	7.9488 MHz
	non-refer	enced items
	14-80168501	crystal insulator (2 used for Y52, Y201)
	26-04398J01	VCO/synthesizer shield (4 used)
	26-04399J01	receiver mixer bottom shield
	26-04400J01	receiver front end top shield
	26-04419J01	PA shield frame
	26-04420J01 42-80281L01	PA shield cover around clip (2 used for O2640)
		AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY A

42-80281L01 ground clip (2 used for Q2640) m performance, diodes, transistors, and integrated circuits by Motorola part numbers.

Parts List for UHF Main Boards, 450-470 MHz, 12.5 & 20-25 kHz, 40 W (Part of PMUE1039A, PMUE1040A, PMUE1056A, and PMUE1057A Radios)

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