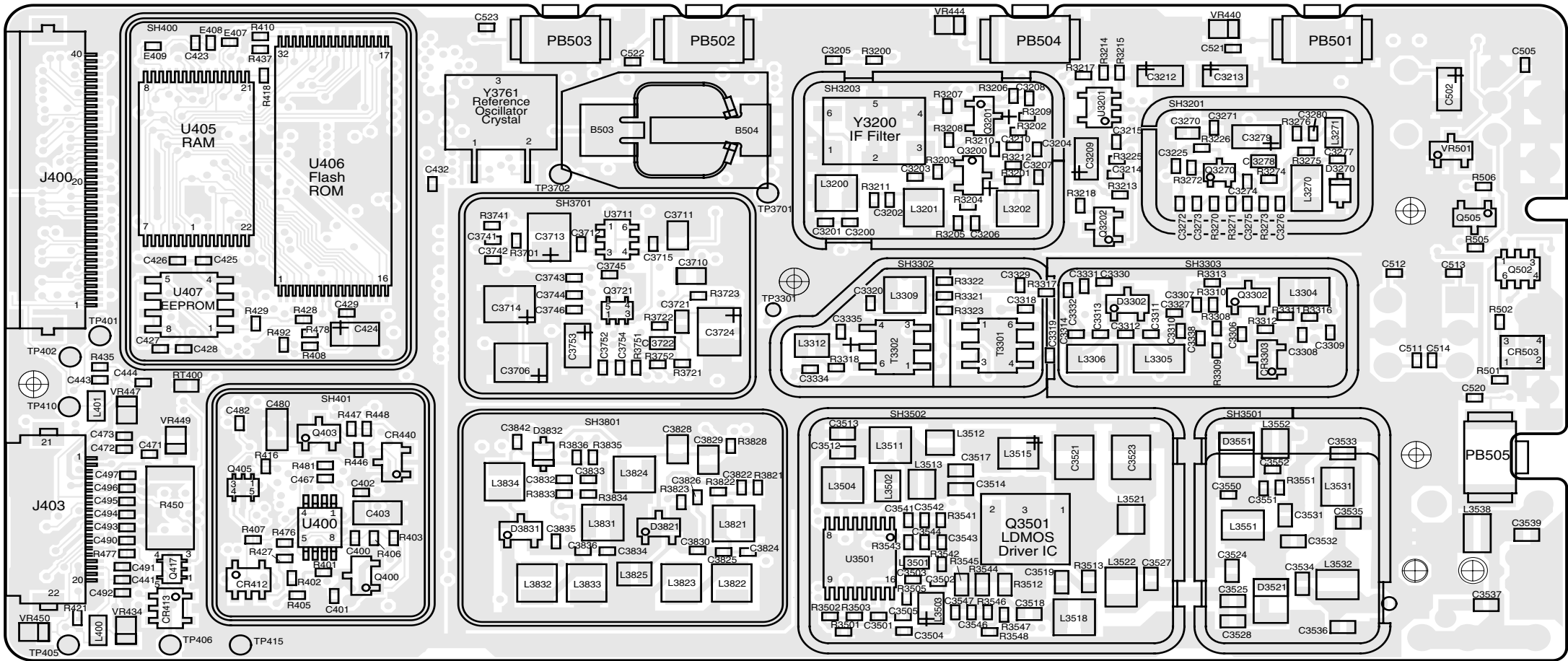
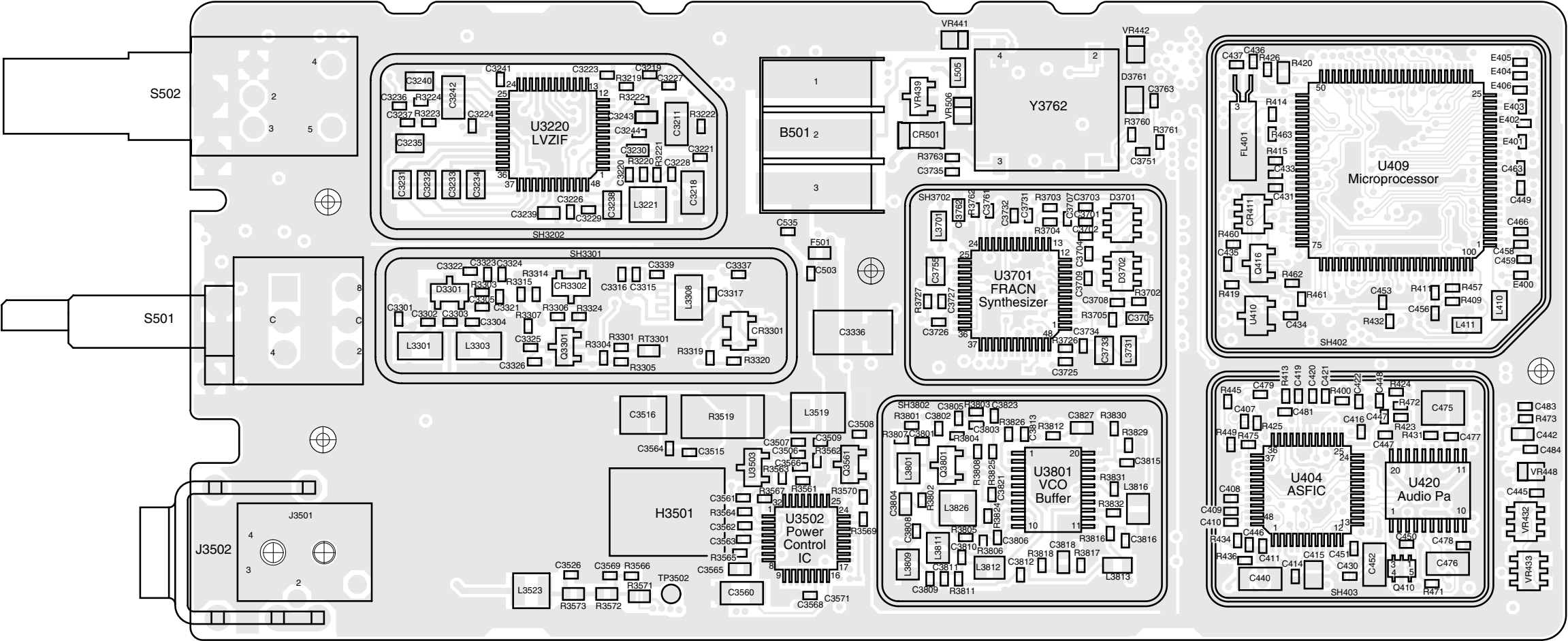


2.0 VHF PCB 8486062B12 / Schematics



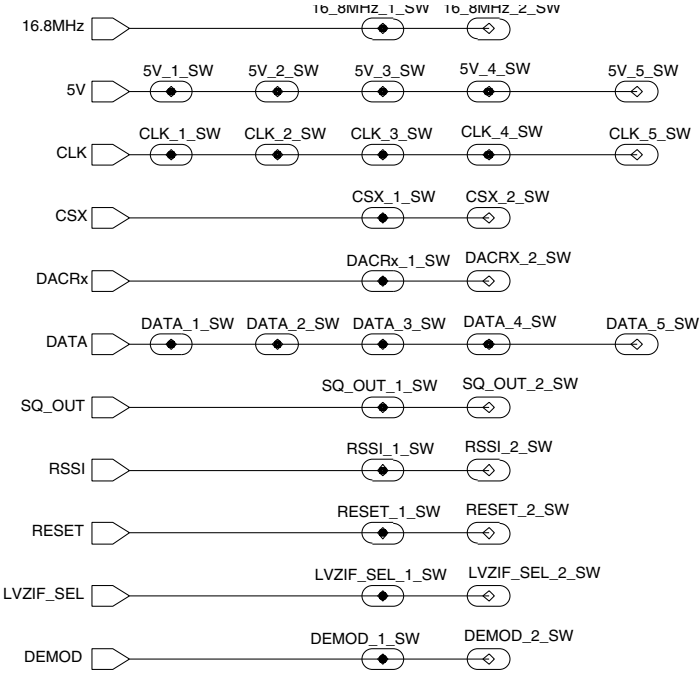
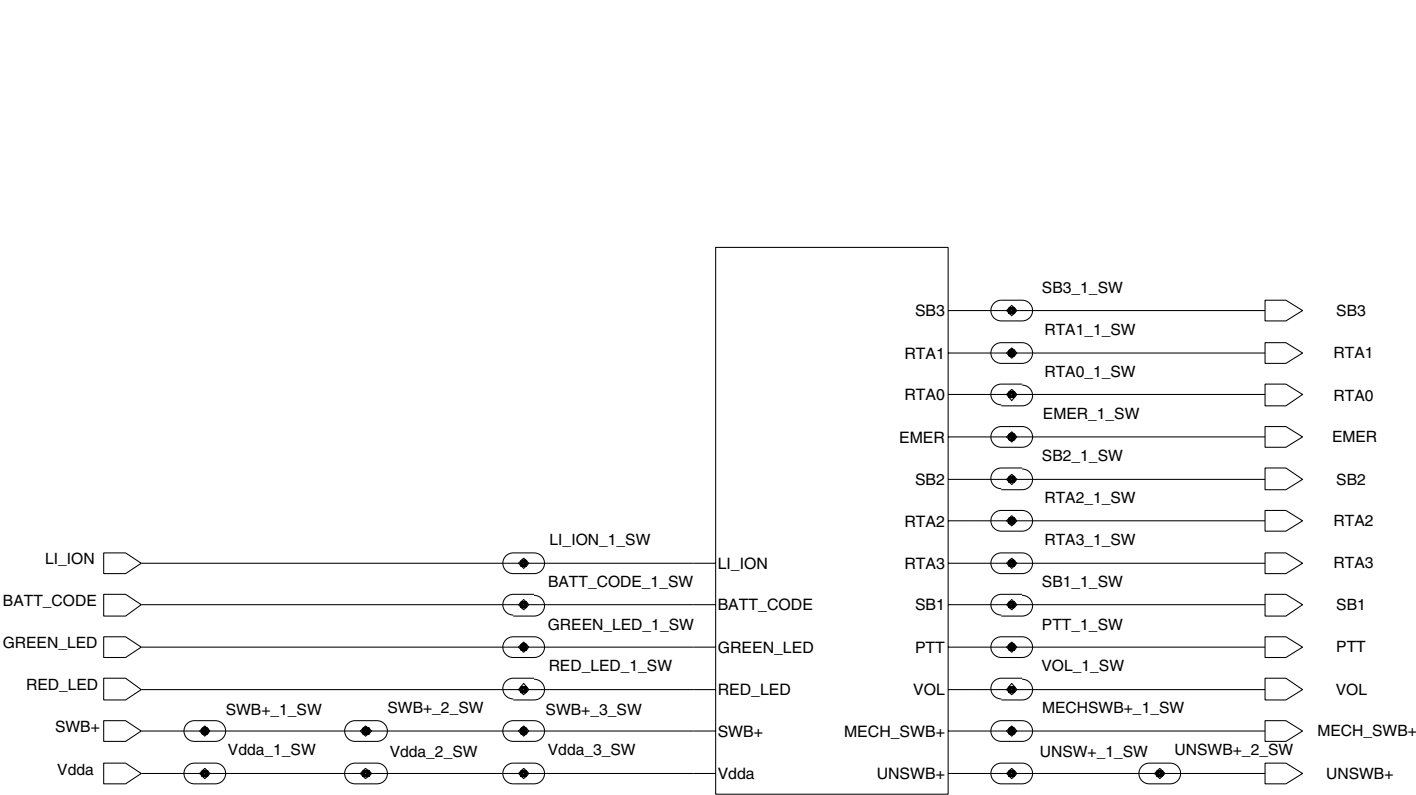
ZWG0130072-D

VHF (136-174 MHz) Main Board Top Side

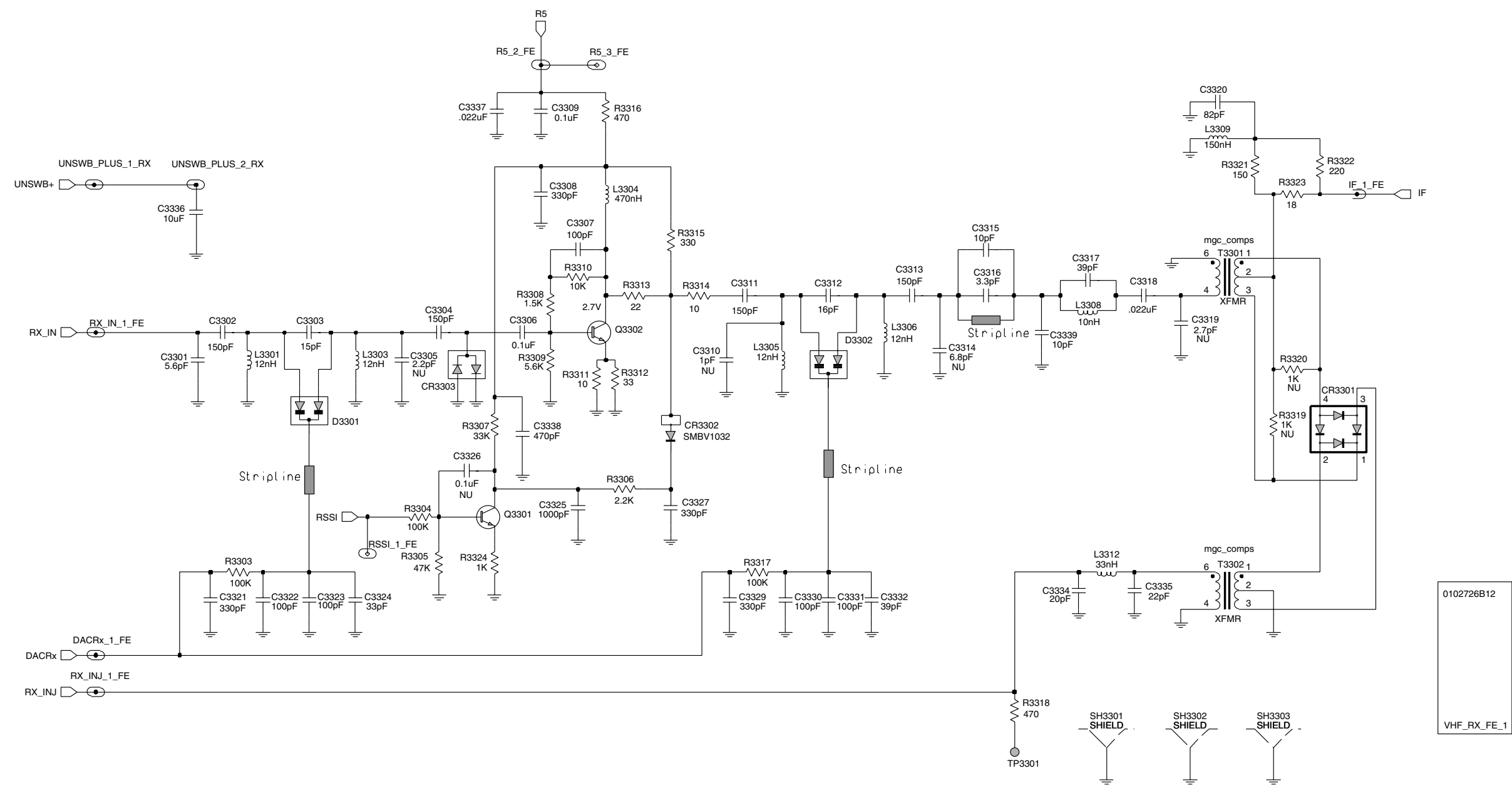


ZWG01300073-C

VHF (136-174 MHz) Main Board Bottom Side

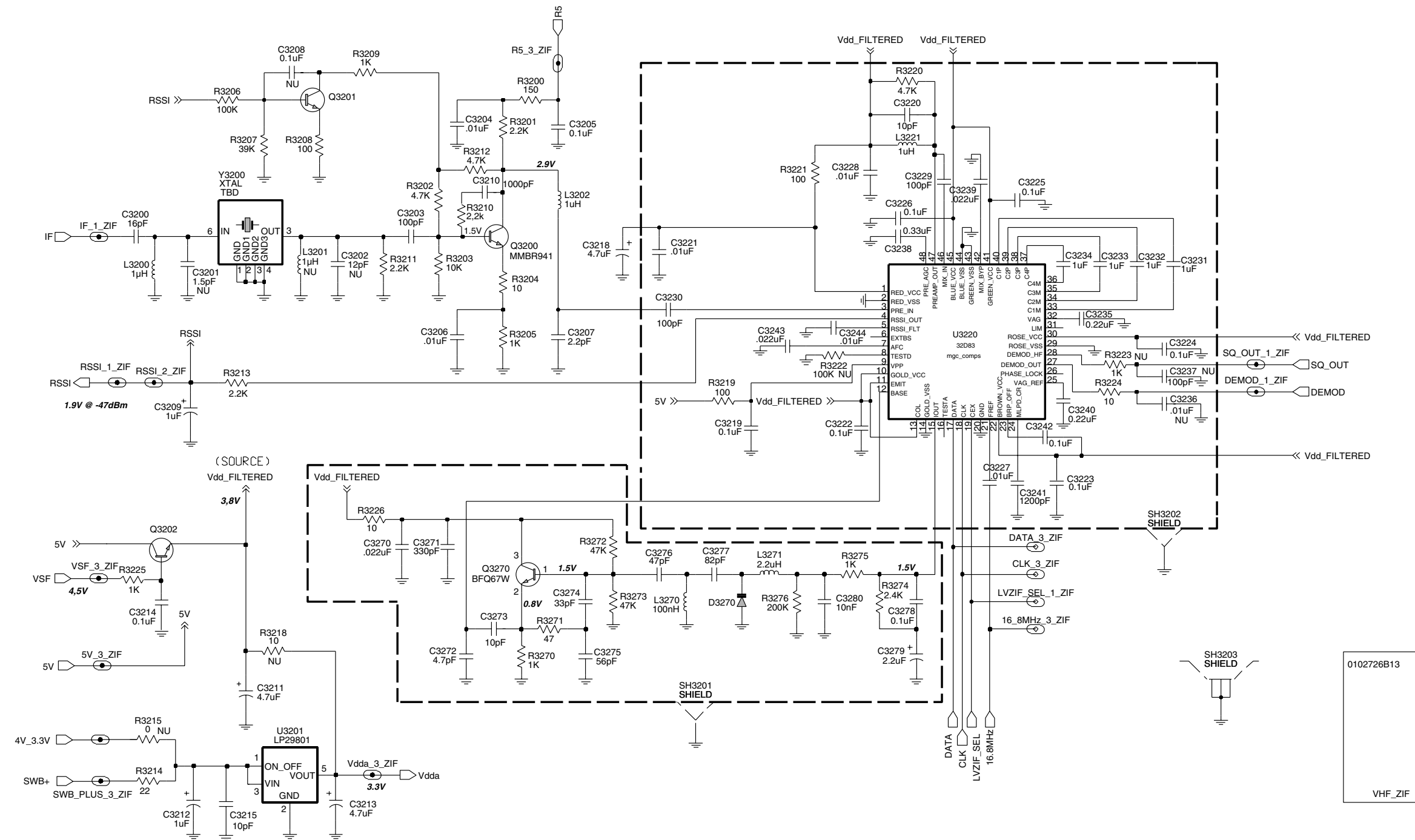


ZWG0130024-A



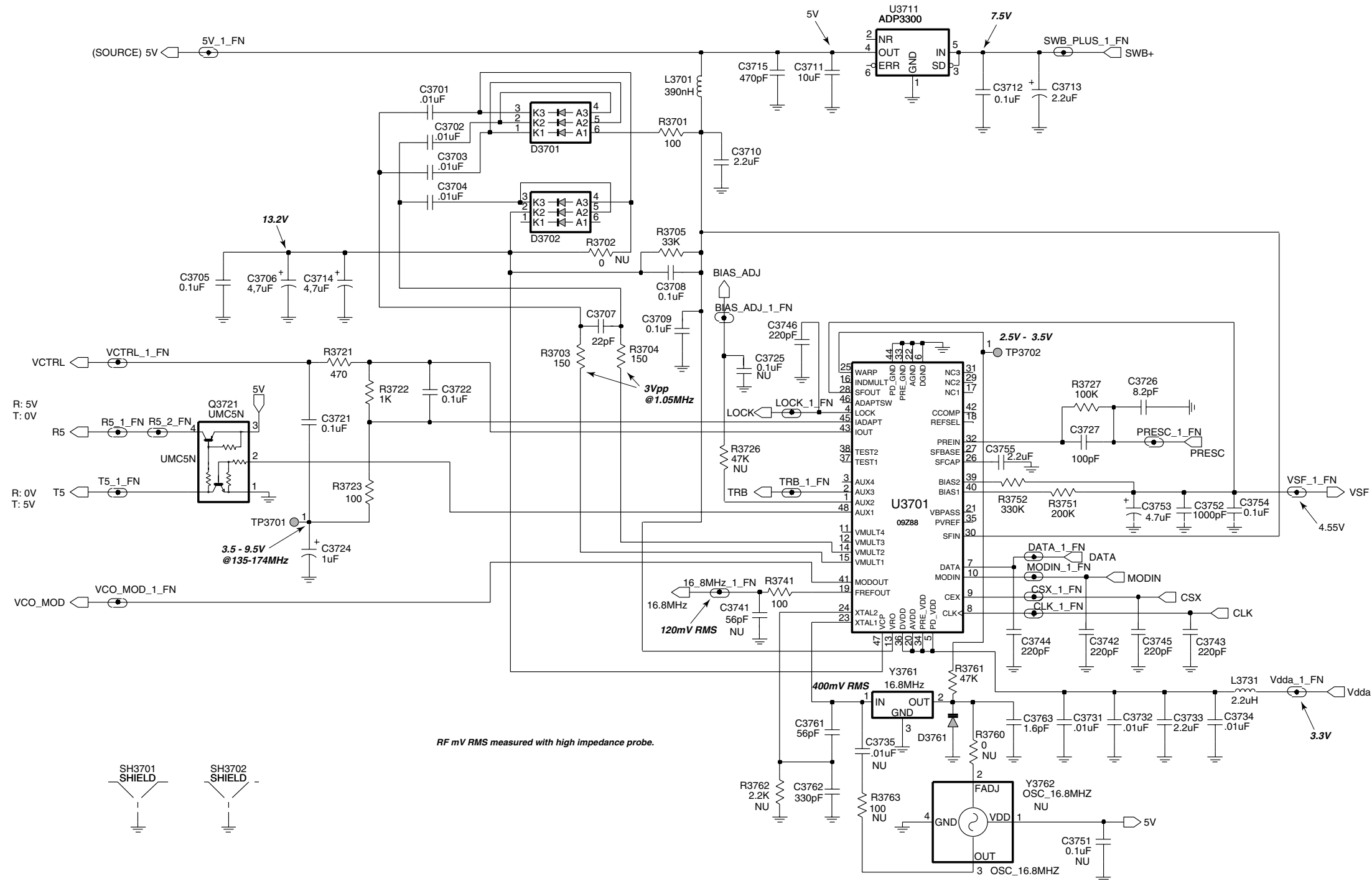
ZWG0130023-A

VHF (136-174 MHz) Receiver Front End



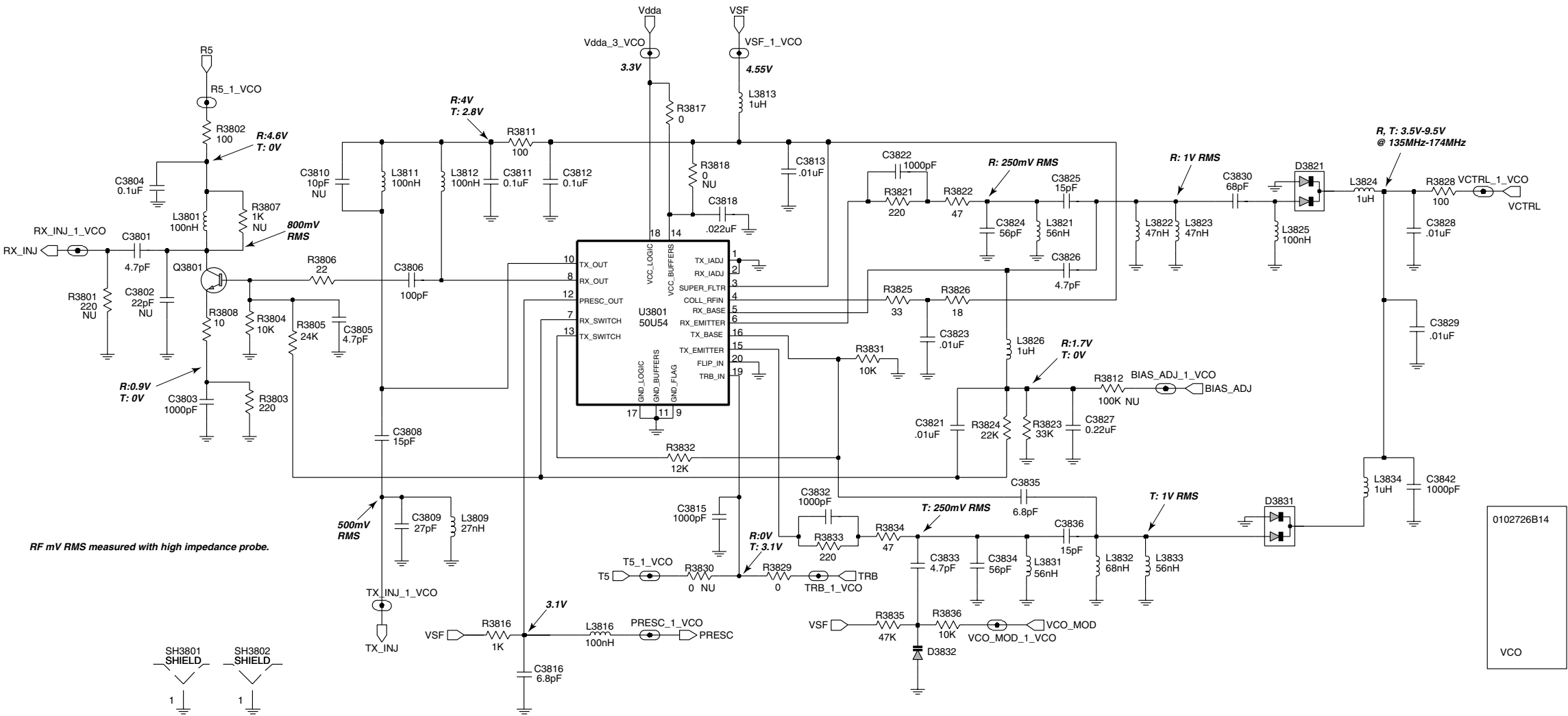
ZWG0130025-B

VHF (136-174 MHz) Receiver Back End



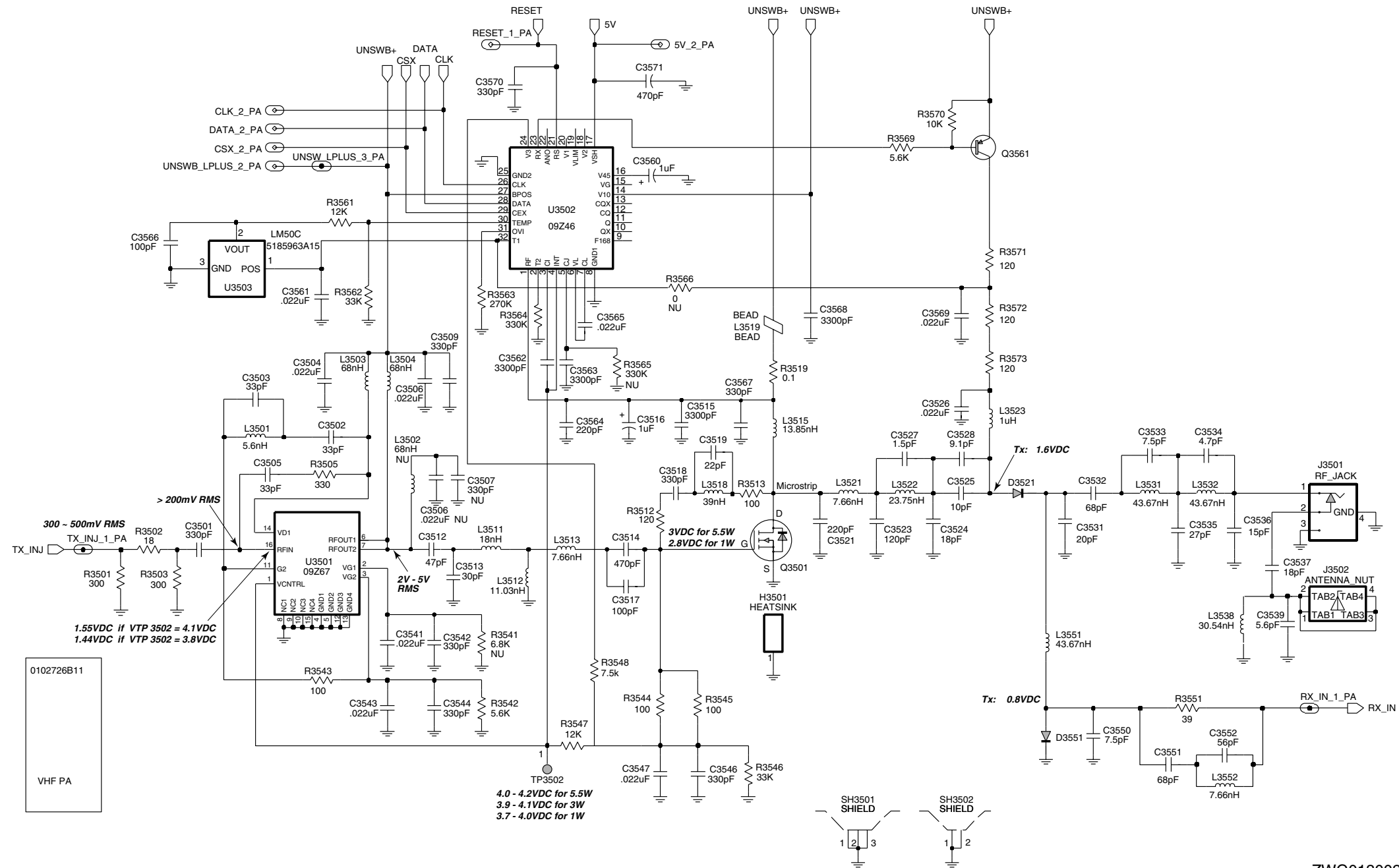
0102726B15

VHF_FRACN



ZWG0130020-B

VHF (136-174 MHz) Voltage Controlled Oscillator



ZWG0130021-D

VHF (136-174 MHz) Transmitter

3.0 VHF PCB 8486062B12 Parts List

Circuit Ref	Motorola Part No	Description
B501	0986237A02	CONN, CONTACT BATT
B503	3980502Z01	CONTACT, BACKUP B+ only GP360, GP380, GP680
B504	3980501Z01	CONTACT, BACKUP B- only GP360, GP380, GP680
C3200	2113743N31	16.0 PF 5% COG
C3203	2113743N50	100 PF 5% COG
C3204	2113743L41	10000 PF 10%
C3205	2113928N01	CER CHIP 0.1UF 10% 6.3
C3206	2113743L41	10000 PF 10%
C3207	2113743N10	2.2 PF +/- .25PF COG
C3209	2311049A07	TANT 10% 1.0UF
C3210	2113743L17	1000 PF 10%
C3211	2311049A56	TAN CHIP A/P 4.7 20 10
C3212	2311049A07	TANT 10% 1.0UF
C3213	2311049A56	TAN CHIP A/P 4.7 20 10
C3214	2113928N01	CER CHIP 0.1UF 10% 6.3
C3215	2113743N26	10.0 PF 5% COG
C3218	2311049A56	TAN CHIP A/P 4.7 20 10
C3219	2113928N01	CER CHIP 0.1UF 10% 6.3
C3220	2113743N26	10.0 PF 5% COG
C3221	2113743L41	10000 PF 10%
C3222	2113928N01	CER CHIP 0.1UF 10% 6.3
C3223	2113928N01	CER CHIP 0.1UF 10% 6.3
C3224	2113928N01	CER CHIP 0.1UF 10% 6.3
C3225	2113928N01	CER CHIP 0.1UF 10% 6.3
C3226	2113928N01	CER CHIP 0.1UF 10% 6.3
C3227	2113743L41	10000 PF 10%
C3228	2113743L41	10000 PF 10%
C3229	2113743N50	100 PF 5% COG
C3230	2113740F51	REEL CL1 +/-30 100
C3231	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3232	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3233	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3234	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3235	2113743A23	.220UF 10%
C3238	2113743A24	.330 UF 10% 16V
C3239	2113743E07	CER CHIP .022UF
C3240	2113743A23	.220UF 10%
C3241	2113743L19	1200 PF 10%
C3242	2109720D14	CER CHIP LOW DIST 0.1UF
C3243	2113743E07	CER CHIP .022UF
C3244	2113743L41	10000 PF 10%
C3270	2113743E07	CER CHIP .022UF
C3271	2113743L05	330 PF 10%
C3272	2113743N18	4.7 PF +/- .25PF COG
C3273	2113743N26	10.0 PF 5% COG
C3274	2113743N38	33.0 PF 5% COG
C3275	2113743N44	56.0 PF 5% COG
C3276	2113743N42	47.0 PF 5% COG
C3277	2113743N48	82.0 PF 5% COG
C3278	2113743E07	CER CHIP .022UF
C3279	2311049A40	GLOBAL TANT 10% 2.2 UF

Circuit Ref	Motorola Part No	Description
C3280	2113743L41	10000 PF 10%
C3301	2113743N20	5.6 PF +/- .5PF COG
C3302	2113743N54	150 PF 5% COG
C3303	2113743N30	15.0PF 5% COG
C3304	2113743N54	150 PF 5% COG
C3306	2113928N01	CER CHIP 0.1UF 10% 6.3
C3307	2113743N50	100 PF 5% COG
C3308	2113743L05	330 PF 10%
C3309	2113928N01	CER CHIP 0.1UF 10% 6.3
C3311	2113743N54	150 PF 5% COG
C3312	2113743N31	16.0 PF 5% COG
C3313	2113743N54	150 PF 5% COG
C3315	2113743N26	10.0 PF 5% COG
C3316	2113743N14	3.3 PF +/- .25PF COG
C3317	2113743N40	39.0 PF 5% COG
C3318	2113743M08	22000PF +80-20% Y5V
C3320	2113743N48	82.0 PF 5% COG
C3321	2113743L05	330 PF 10%
C3322	2113743N50	100 PF 5% COG
C3323	2113743N50	100 PF 5% COG
C3324	2113743N38	33.0 PF 5% COG
C3325	2113743L17	1000 PF 10%
C3327	2113743L05	330 PF 10%
C3329	2113743L05	330 PF 10%
C3330	2113743N50	100 PF 5% COG
C3331	2113743N50	100 PF 5% COG
C3332	2113743N40	39.0 PF 5% COG
C3334	2113743N33	20.0 PF 5% COG
C3335	2113743N34	22.0 PF 5% COG
C3336	2311049A18	TANT 10% 10UF
C3337	2113743M08	22000PF +80-20% Y5V
C3338	2113743L09	470 PF 10%
C3339	2113743N26	10.0 PF 5% COG
C3501	2113743L05	330 PF 10%
C3502	2113743N38	33.0 PF 5% COG
C3503	2113743N38	33.0 PF 5% COG
C3504	2113743M08	22000PF +80-20% Y5V
C3505	2113743N38	33.0 PF 5% COG
C3508	2113743M08	22000PF +80-20% Y5V
C3509	2113743L05	330 PF 10%
C3512	2113740F43	REEL CL1 +/-30 47
C3513	2113740F38	REEL CL1 +/-30 30
C3514	2113740F67	CL1 +/-30 470 5%
C3515	2113743L29	3300PF 10%
C3516	2311049A08	KEMET CAPS
C3517	2113740F51	REEL CL1 +/-30 100
C3518	2113740F63	CL1 +/-30 330 5%
C3519	2113740F35	REEL CL1 +/-30 22
C3521	2111078B51	RF 220 5 NPO 100V
C3523	2111078B44	RF 120 5 NPO 100V
C3524	2113740F33	REEL CL1 +/-30 18
C3525	2113740F27	REEL CL1 +/-30 10
C3526	2113743M08	22000PF +80-20% Y5V
C3528	2113740F26	REEL CL1 +/-30 9.1
C3531	2113740F34	REEL CL1 +/-30 20
C3532	2113740F47	REEL CL1 +/-30 68

Circuit Ref	Motorola Part No	Description
C3533	2113740F24	REEL CL1 +/-30 7.5
C3534	2113740F19	CHIP CAP, CER 4.7PF
C3535	2113740F37	REEL CL1 +/-30 27
C3536	2113740F31	REEL CL1 +/-30 15
C3537	2113740F33	REEL CL1 +/-30 18
C3539	2113740F21	REEL CL1 +/-30 5.6
C3541	2113743M08	22000PF +80-20% Y5V
C3542	2113743L05	330 PF 10%
C3543	2113743M08	22000PF +80-20% Y5V
C3544	2113743L05	330 PF 10%
C3546	2113743L05	330 PF 10%
C3547	2113743M08	22000PF +80-20% Y5V
C3550	2113743N23	7.5 PF +/- .5PF COG
C3551	2113743N46	68.0 PF 5% COG
C3552	2113743N44	56.0 PF 5% COG
C3560	2311049A07	TANT 10% 1.0UF
C3561	2113743M08	22000PF +80-20% Y5V
C3562	2113743L29	3300PF 10%
C3563	2113743L29	3300PF 10%
C3564	2113743L01	220 PF 10%
C3565	2113743E07	CER CHIP .022UF
C3566	2113743N50	100 PF 5% COG
C3567	2113743L05	330 PF 10%
C3568	2113743L29	3300PF 10%
C3569	2113743M08	22000PF +80-20% Y5V
C3570	2113743L05	330 PF 10%
C3571	2113743L09	470 PF 10%
C3701	2113743L41	10000 PF 10%
C3702	2113743L41	10000 PF 10%
C3703	2113743L41	10000 PF 10%
C3704	2113743L41	10000 PF 10%
C3705	2113743E20	CHIP. 10 UF 10%
C3706	2311049J11	CAPACITOR TANT 10% 4.7UF
C3707	2113743N34	22.0 PF 5% COG
C3708	2113743M24	100000 PF +80-20% Y5V
C3709	2113743M24	100000 PF +80-20% Y5V
C3710	2104993J02	MONOLITHIC CERAMIC (2.2UF)
C3711	2311049A69	TAN CHIP 10.0 UF 20% 6.3V
C3712	2113743M24	100000 PF +80-20% Y5V
C3713	2311049A09	TANT 2.2 UF 10%
C3714	2311049J11	CAPACITOR TANT 10% 4.7UF
C3715	2113743L09	470 PF 10%
C3721	2113743E20	CHIP. 10 UF 10%
C3722	2113743E20	CHIP. 10 UF 10%
C3724	2311049A08	KEMET CAPS
C3726	2113743N24	8.2 PF + -.5PF COG
C3727	2113743N50	100 PF 5% COG
C3731	2113743L41	10000 PF 10%
C3732	2113743L41	10000 PF 10%
C3733	2104993J02	MONOLITHIC CERAMIC (2.2UF)
C3734	2113743L41	10000 PF 10%
C3742	2113743L01	220 PF 10%
C3743	2113743L01	220 PF 10%
C3744	2113743L01	220 PF 10%
C3745	2113743L01	220 PF 10%
C3746	2113743L01	220 PF 10%

Circuit Ref	Motorola Part No	Description
C3752	2113743L17	1000 PF 10%
C3753	2311049A56	TAN CHIP A/P 4.7 20 10
C3754	2113743M24	100000 PF +80-20% Y5V
C3755	2104993J02	MONOLITHIC CERAMIC (2.2UF)
* C3761	2113743N44	56.0 PF 5% COG
* C3762	2113740F63	CL1 +/-30 330 5%
* C3763	2113743N08	1.6 PF +/- .25PF COG
C3801	2113743N18	4.7 PF +/- .25PF COG
C3803	2113743L17	1000 PF 10%
C3804	2113743E20	CHIP. 10 UF 10%
C3805	2113743N18	4.7 PF +/- .25PF COG
C3806	2113743N50	100 PF 5% COG
C3808	2113743N30	15.0PF 5% COG
C3809	2113743N36	27.0 PF 5% COG
C3811	2113743M24	100000 PF +80-20% Y5V
C3812	2113743M24	100000 PF +80-20% Y5V
C3813	2113743L41	10000 PF 10%
C3815	2113743L17	1000 PF 10%
C3816	2113743N22	6.8 PF +/- .5PF COG
C3818	2113743E07	CER CHIP .022UF
C3821	2113743L41	10000 PF 10%
C3822	2113743L17	1000 PF 10%
C3823	2113743L41	10000 PF 10%
C3824	2113743N44	56.0 PF 5% COG
C3825	2113743N30	15.0PF 5% COG
C3826	2113743N18	4.7 PF +/- .25PF COG
C3827	2113743E07	CER CHIP .022UF
C3828	2109720D01	CER CHIP LOW DIS T .01UF
C3829	2109720D01	CER CHIP LOW DIS T .01UF
C3830	2113743N46	68.0 PF 5% COG
C3832	2113743L17	1000 PF 10%
C3833	2113743N18	4.7 PF +/- .25PF COG
C3834	2113743N44	56.0 PF 5% COG
C3835	2113743N22	6.8 PF +/- .5PF COG
C3836	2113743N30	15.0PF 5% COG
C3842	2113743L17	1000 PF 10%
C400	2113743L41	10000 PF 10%
C401	2113743M24	100000 PF +80-20% Y5V
C402	2113743M24	100000 PF +80-20% Y5V
C403	2113928D08	CERAMIC CHIP 10.0UF
C407	2113928N01	CER CHIP 0.1UF 10% 6.3
C408	2113743N50	100 PF 5% COG
C409	2113743M24	100000 PF +80-20% Y5V
C410	2113928N01	CER CHIP 0.1UF 10% 6.3
C411	2113743M24	100000 PF +80-20% Y5V
C414	2113743M24	100000 PF +80-20% Y5V
C415	2109720D01	CER CHIP LOW DIS T .01UF
C416	2113928N01	CER CHIP 0.1UF 10% 6.3
C419	2113743L41	10000 PF 10%
C420	2113743L41	10000 PF 10%
C421	2113928N01	CER CHIP 0.1UF 10% 6.3
C422	2113743M24	100000 PF +80-20% Y5V
C423	2113743N50	100 PF 5% COG
C424	2311049A59	TANT CHIP A/P 10UF 10% 6V
C425	2113743M24	100000 PF +80-20% Y5V
C426	2113743N50	100 PF 5% COG

Circuit Ref	Motorola Part No	Description
C427	2113743N50	100 PF 5% COG
C428	2113743M24	100000 PF +80-20% Y5V
C429	2113743M24	100000 PF +80-20% Y5V
C430	2113928N01	CER CHIP 0.1UF 10% 6.3
C431	2113743N50	100 PF 5% COG
C433	2113743L41	10000 PF 10%
C434	2113743M24	100000 PF +80-20% Y5V only GP360, GP380, GP680
C435	2113743M24	100000 PF +80-20% Y5V
C436	2113743N34	22.0 PF 5% COG only GP360, GP380, GP680
C437	2113743N34	22.0 PF 5% COG only GP360, GP380, GP680
C440	2113743G26	4.7UF 16V + 80-20%
C441	2113743L09	470 PF 10%
C442	2113743E20	CHIP. 10 UF 10%
C443	2113928N01	CER CHIP 0.1UF 10% 6.3
C444	2113743N50	100 PF 5% COG
C445	2113743L09	470 PF 10%
C446	2113743L09	470 PF 10%
C447	2113928N01	CER CHIP 0.1UF 10% 6.3
C448	2113928N01	CER CHIP 0.1UF 10% 6.3
C449	2113743N50	100 PF 5% COG
C451	2113743M08	22000PF +80-20% Y5V
C452	2113743G26	4.7UF 16V + 80-20%
C453	2113743N50	100 PF 5% COG
C456	2113743N50	100 PF 5% COG
C458	2113743N50	100 PF 5% COG
C459	2113743N50	100 PF 5% COG
C463	2113743N50	100 PF 5% COG
C466	2113743N50	100 PF 5% COG
C467	2113928N01	CER CHIP 0.1UF 10% 6.3
C471	2113743L09	470 PF 10%
C472	2113743L09	470 PF 10%
C473	2113743L09	470 PF 10%
C474	2113743L41	10000 PF 10%
C475	2113743H14	10.0 UF 16V +80-20%
C476	2113928D08	CERAMIC CHIP 10.0UF
C477	2113743L17	1000 PF 10%
C478	2113743L17	1000 PF 10%
C479	2113928N01	CER CHIP 0.1UF 10% 6.3
C480	2113928D08	CERAMIC CHIP 10.0UF
C481	2113928N01	CER CHIP 0.1UF 10% 6.3
C482	2113928N01	CER CHIP 0.1UF 10% 6.3
C483	2113743L09	470 PF 10%
C484	2113743L09	470 PF 10%
C490	2113743L09	470 PF 10%
C491	2113743L09	470 PF 10%
C492	2113743L09	470 PF 10%
C493	2113743N50	100 PF 5% COG
C494	2113743N50	100 PF 5% COG
C495	2113743L09	470 PF 10%
C496	2113743L09	470 PF 10%
C497	2113743L09	470 PF 10%
C502	2311049A05	TANT 10% 0.47UF
C503	2113743N50	100 PF 5% COG

Circuit Ref	Motorola Part No	Description
C505	2113743N50	100 PF 5% COG
C511	2113743N50	100 PF 5% COG
C512	2113743N50	100 PF 5% COG
C513	2113743N50	100 PF 5% COG
C514	2113743N50	100 PF 5% COG
C520	2113743L41	10000 PF 10%
C521	2113743L41	10000 PF 10%
C522	2113743L41	10000 PF 10%
C523	2113743L41	10000 PF 10%
C535	2113743L17	1000 PF 10%
CR3301	4802245J42	RING QUAD SOT-143 PKG
CR3302	4805129M96	DIODE SMBV1032
CR3303	4880154K03	SOT MMBD353 DUAL SCHKY
CR411	4802245J47	SCHOTTKY BARRIER(RB471E)
CR412	4802245J62	SCHOTTKY BARRIER(RB471E)
CR413	4802245J62	SCHOTTKY BARRIER(RB471E)
CR440	4813833C02	DUAL 70V '5B' COMM CATH
CR501	4880107R01	RECTIFIER
CR503	4805729G49	LED RED/YEL
D3270	4862824C01	VARACTOR
D3301	4802081B58	DUAL SILCON (VARICAP)
D3302	4802081B58	DUAL SILCON (VARICAP)
D3521	4880973Z02	PIN DIODE
D3551	4880973Z02	PIN DIODE
D3701	4802233J09	TRIPLE SOT25-RH
D3702	4802233J09	TRIPLE SOT25-RH
* D3761	4862824C03	VARACTOR
D3821	4805649Q13	VCTR ISV 228
D3831	4805649Q13	VCTR ISV 228
D3832	4862824C01	VARACTOR
E400	2480640Z01	C/IND BK1005HM471 BEAD
E401	2480640Z01	C/IND BK1005HM471 BEAD
E402	2480640Z01	C/IND BK1005HM471 BEAD
E403	2480640Z01	C/IND BK1005HM471 BEAD
E404	2480640Z01	C/IND BK1005HM471 BEAD
E405	2480640Z01	C/IND BK1005HM471 BEAD
E406	2480640Z01	C/IND BK1005HM471 BEAD
E407	2480640Z01	C/IND BK1005HM471 BEAD
E408	2480640Z01	C/IND BK1005HM471 BEAD
E409	2480640Z01	C/IND BK1005HM471 BEAD
F501	6580542Z01	FUSE CHIP SMT TR/1608FF 3A
FL401	4870368G02	CLOCK OSC XTAL only GP360, GP380, GP680
H3501	2680499Z01	HEAT SPREADER
J3501	0180117S05	RF JACK ASSEMBLY
J3502	0280519Z02	NUT, ANTENNA
J400	0905505Y04	CONN ZIF 40Pin not in GP320
J403	0905505Y02	CONN ZIF MALE 20 PIN
L3200	2462587N68	CHIP IND 1000 NH 5%
L3202	2462587N68	CHIP IND 1000 NH 5%
L3221	2462587N68	CHIP IND 1000 NH 5%
L3270	2462587T15	IND CHIP 100NH 5% LOW PRO
L3271	2462587Q20	IND CHIP 2,200NH 20%
L3301	2462587T35	IND CHIP 12NH 5% LOW PRO
L3303	2462587T35	IND CHIP 12NH 5% LOW PRO

Circuit Ref	Motorola Part No	Description
L3304	2462587T23	IND CHIP 470NH 5% LOW PRO
L3305	2462587T35	IND CHIP 12NH 5% LOW PRO
L3306	2462587T35	IND CHIP 12NH 5% LOW PRO
L3308	2462587T34	IND CHIP 10NH 5% LOW PRO
L3309	2462587N55	CHIP IND 150 NH 5%
L3312	2462587V28	CHIP IND 33 NH 5% 0805
L3501	2413926H09	IND CHIP 5.6 NH +/- 0.3NH
L3503	2462587V32	CHIP IND 68NH 5% 0805
L3504	2462587N51	CHIP IND 68 NH 5%
L3511	2462587N44	CHIP IND 18 NH 5%
L3512	2479990B01	AIR WOUND GREEN 11.03NH
L3513	2479990A02	AIR WOUND GREEN 7.66NH
L3515	2479990C03	AIR WOUND GREEN 13.85NH
L3518	2462587N48	CHIP IND 39 NH 5%
L3519	2484657R01	INDUCTOR BEAD CHIP
L3521	2479990A02	AIR WOUND GREEN 7.66NH
L3522	2479990E01	COIL AIR WOUND GREEN 23.75
L3523	2462587N68	CHIP IND 1000 NH 5%
L3531	2479990N01	AIR WOUND GREEN 43.67NH
L3532	2479990N01	AIR WOUND GREEN 43.67NH
L3538	2479990M01	AIR WOUND GREEN 30.54NH
L3551	2479990N01	AIR WOUND GREEN 43.67NH
L3552	2479990A02	AIR WOUND GREEN 7.66NH
L3701	2462587Q42	IND CHIP 390NH 10%
L3731	2462587Q20	IND CHIP 2,200NH 20%
L3801	2462587V34	CHIP IND 100NH 5% 0805
L3809	2462587V27	CHIP IND 27 NH 5% 0805
L3811	2462587V34	CHIP IND 100NH 5% 0805
L3812	2462587V34	CHIP IND 100NH 5% 0805
L3813	2462587Q47	IND CHIP 1000 NH 10%
L3816	2462587V34	CHIP IND 100NH 5% 0805
L3821	2462587N50	CHIP IND 56 NH 5%
L3822	2462587N49	CHIP IND 47 NH 5%
L3823	2462587N49	CHIP IND 47 NH 5%
L3824	2462587N68	CHIP IND 1000 NH 5%
L3825	2462587V34	CHIP IND 100NH 5%
L3826	2462587N68	CHIP IND 1000 NH 5%
L3831	2462587N50	CHIP IND 56 NH 5%
L3832	2462587N51	CHIP IND 68 NH 5%
L3833	2462587N50	CHIP IND 56 NH 5%
L3834	2462587N68	CHIP IND 1000 NH 5%
L400	2462587Q42	IND CHIP 390NH 10%
L401	2462587Q42	IND CHIP 390NH 10%
L410	2462587Q42	IND CHIP 390NH 10%
L411	2462587Q42	IND CHIP 390NH 10%
L505	2462587Q42	IND CHIP 390NH 10%
PB501	4080523Z01	SWITCH, TACT
PB502	4080523Z01	SWITCH, TACT
PB503	4080523Z01	SWITCH, TACT not in GP320
PB504	4080523Z01	SWITCH, TACT
PB505	4080523Z01	SWITCH, TACT not in GP320
Q3200	4813827A07	TSTR NPN SML SIG MMBR941LT1
Q3201	4880214G02	TSTR MMBT3904

Circuit Ref	Motorola Part No	Description
Q3202	4880214G02	TSTR MMBT3904
Q3270	4805218N63	RF TRANS SOT 323 Bfq67W
Q3301	4880214G02	TSTR MMBT3904
Q3302	4813827A07	TSTR NPN MMBR941LT1
Q3501	4802245J55	TSTR POWER FIELD EFFECT
Q3561	4813824A17	XSTR PNP40V .2A B=100-300
Q3721	4802245J50	TSTR DUAL NPN/PNP UMC5N
Q3801	4813827A07	TSTR NPN MMBR941LT1
Q400	4809579E18	MOSFET P-CHAN TP010IT
Q403	4880214G02	TSTR MMBT3904
Q405	4802245J54	UMG5N DIGITAL TRANSISTOR
Q410	4802245J54	UMG5N DIGITAL TRANSISTOR
Q416	4809579E18	MOSFET P-CHAN TP010IT only GP360, GP380, GP680
Q417	4802245J50	TSTR DUAL NPN/PNP UMC5N
Q502	5180159R01	DUAL TRANS NPNS
Q505	4880214G02	TSTR MMBT3904
R3200	0662057M54	150 5% 20X40
R3201	0662057M82	2200 5% 20X40
R3202	0662057M90	4700 5% 20X40
R3203	0662057M98	10K 5% 20X40
R3204	0662057M26	10 5% 20X40
R3205	0662057M74	1000 5% 20X40
R3206	0662057N23	100K 5% 20X40
R3207	0662057N13	39K 5% 20X40
R3208	0662057M50	100 5% 20X40
R3209	0662057M74	1000 5% 20X40
R3210	0662057M82	2200 5% 20X40
R3211	0662057M82	2200 5% 20X40
R3212	0662057M90	4700 5% 20X40
R3213	0662057M82	2200 5% 20X40
R3214	0662057M34	22 5% 20X 40
R3219	0662057M50	100 5% 20X40
R3220	0662057M90	4700 5% 20X40
R3221	0662057M50	100 5% 20X40
R3224	0662057M26	10 5% 20X40
R3225	0662057M74	1000 5% 20X40
R3226	0662057M26	10 5% 20X40
R3270	0662057M74	1000 5% 20X40
R3271	0662057M42	47 5% 20X40
R3272	0662057N15	47K 5% 20X40
R3273	0662057N15	47K 5% 20X40
R3274	0662057M83	2400 5% 20X40
R3275	0662057M74	1000 5% 20X40
R3276	0662057N30	200K 5% 20X40
R3303	0662057N23	100K 5% 20X40
R3304	0662057N23	100K 5% 20X40
R3305	0662057N19	68K 5% 20X40
R3306	0662057M82	2200 5% 20X40
R3307	0662057N11	33K 5% 20X40
R3308	0662057M78	1500 5% 20X40
R3309	0662057M92	5600 5% 20X40
R3310	0662057M98	10K 5% 20X40
R3311	0662057M26	10 5% 20X40
R3312	0662057M38	33 5% 20X40
R3313	0662057M34	22 5% 20X 40

Circuit Ref	Motorola Part No	Description
R3314	0662057M26	10 5% 20X40
R3315	0662057M62	330 5% 20X40
R3316	0662057M66	470 5% 20X40
R3317	0662057N23	100K 5% 20X40
R3318	0662057M66	470 5% 20X40
R3321	0662057M54	150 5% 20X40
R3322	0662057M58	220 5% 20X40
R3323	0662057M32	18 5% 20X40
R3324	0662057M58	220 5% 20X40
R3501	0662057M61	300 5% 20X40
R3502	0662057M32	18 5% 20X40
R3503	0662057M61	300 5% 20X40
R3505	0662057M62	330 5% 20X40
R3512	0662057A27	120 OHMS 5%
R3513	0662057A25	100 OHMS 5%
R3519	0680539Z01	POWER METAL STRIP
R3542	0662057M92	5600 5% 20X40
R3543	0662057M50	100 5% 20X40
R3544	0662057A25	100 OHMS 5%
R3545	0662057A25	100 OHMS 5%
R3546	0662057N11	33K 5% 20X40
R3547	0662057N01	12K 5% 20X40
R3548	0662057M95	7500 55 20X40
R3551	0662057M40	39 5% 20X40
R3561	0662057N01	12K 5% 20X40
R3562	0662057N11	33K 5% 20X40
R3563	0662057N33	270K 5% 20X40
R3564	0662057N35	330K 5% 20X40
R3569	0662057M92	5600 5% 20X40
R3570	0662057M98	10K 5% 20X40
R3571	0662057A27	120 OHMS 5%
R3572	0662057A27	120 OHMS 5%
R3573	0662057A27	120 OHMS 5%
R3701	0662057M50	100 5% 20X40
R3703	0662057M54	150 5% 20X40
R3704	0662057M54	150 5% 20X40
R3705	0662057N11	33K 5% 20X40
R3721	0662057M66	470 5% 20X40
R3722	0662057M74	1000 5% 20X40
R3723	0662057M50	100 5% 20X40
R3727	0662057N23	100K 5% 20X40
R3741	0662057M50	100 5% 20X40
R3751	0662057N30	200K 5% 20X40
R3752	0662057N35	330K 5% 20X40
R3761	0662057N15	47K 5% 20X40
R3802	0662057M50	100 5% 20X40
R3803	0662057M58	220 5% 20X40
R3804	0662057M98	10K 5% 20X40
R3805	0662057N08	24K 5% 20X40
R3806	0662057M34	22 5% 20X 40
R3808	0662057M26	10 5% 20X40
R3811	0662057M50	100 5% 20X40
R3816	0662057M74	1000 5% 20X40
R3817	0662057M01	0 5% 20X40
R3821	0662057M58	220 5% 20X40
R3822	0662057M42	47 5% 20X40

Circuit Ref	Motorola Part No	Description
R3823	0662057N11	33K 5% 20X40
R3824	0662057N07	22K 5% 20X40
R3825	0662057M38	33 5% 20X40
R3826	0662057M32	18 5% 20X40
R3828	0662057M50	100 5% 20X40
R3829	0662057M01	0 5% 20X40
R3831	0662057M98	10K 5% 20X40
R3832	0662057N01	12K 5% 20X40
R3833	0662057M58	220 5% 20X40
R3834	0662057M42	47 5% 20X40
R3835	0662057N15	47K 5% 20X40
R3836	0662057M98	10K 5% 20X40
R400	0662057N15	47K 5% 20X40
R401	0662057M01	0 5% 20X40
R405	0662057M01	0 5% 20X40
R406	0662057N20	75K 5% 20X40
R407	0662057N19	68K 5% 20X40
R409	0662057M98	10K 5% 20X40
R410	0662057N23	100K 5% 20X40
R411	0662057M98	10K 5% 20X40
R413	0662057M01	0 5% 20X40
R414	0662057V34	180K 1% 1/16W
R415	0662057V26	91K 1% 1/16W
R416	0662057N13	39K 5% 20X40
R418	0662057M01	0 5% 20X40
R419	0662057M67	0 5% 20X40
		only GP360, GP380, GP680
R420	0662057B46	10.0 MEG OHMS 5%
		only GP360, GP380, GP680
R421	0662057M81	2000 5% 20X40
R423	0662057N21	82K 5% 20X40
R424	0662057N12	36K 5% 20X40
R425	0662057N10	30K 5% 20X40
R426	0662057N35	330K 5% 20X40
		only GP360, GP380, GP680
R427	0662057M84	2700 5% 20X40
R428	0662057M10	2.2 5% 20X40
R429	0662057M98	10K 5% 20X40
R431	0662057N39	470K 5% 20X40
R432	0662057N16	51K 5% 20X40
R434	0662057M62	330 5% 20X40
R435	0662057M81	2000 5% 20X40
R436	0662057M01	0 5% 20X40
R445	0662057N08	24K 5% 20X40
R446	0662057N31	RES, CHIP 220K 5% 20X40
R447	0662057N51	RES, CHIP 1.5 MEG 5% 20X40
R448	0662057N33	270K 5% 20X40
R449	0662057N08	24K 5% 20X40
R450	0683962T45	68 5-1
R457	0662057M98	10K 5% 20X40
R460	0662057M90	4700 5% 20X40
R461	0662057M56	180 5% 20X40
		only GP360, GP380, GP680
R462	0662057M98	10K 5% 20X40
		only GP360, GP380, GP680
R463	0662057M61	300 5% 20X40

Circuit Ref	Motorola Part No	Description
R471	0662057M92	5600 5% 20X40
R472	0662057M93	6200 5% 20X40
R473	0662057M26	10 5% 20X40
R475	0662057M01	0 5% 20X40
R476	0662057N08	24K 5% 20X40
R477	0662057M74	1000 5% 20X40
R478	0662057M98	10K 5% 20X40
R481	0662057N08	24K 5% 20X40
R492	0662057M01	0 5% 20X40
R501	0662057M70	680 5% 20X40
R502	0662057M56	180 5% 20X40
R505	0662057M98	10K 5% 20X40
R506	0662057N15	47K 5% 20X40
RT400	0680590Z01	THERMISTOR_33K
S501	4080710Z01	SWITCH (FREQUENCY)
		only GP340, GP640
S501	4080710Z02	SWITCH (FREQUENCY)
		only GP360, GP380, GP680
S502	1880619Z01	POTENTIOMETER, VOLUME
SH3201	2602023X08	SHIELD
SH3202	2686081B02	SHIELD
SH3203	2686081B03	SHIELD
SH3301	2686081B01	SHIELD
SH3302	2686081B05	SHIELD
SH3303	2686081B06	SHIELD
SH3501	2686081B03	SHIELD
SH3502	2686081B04	SHIELD
SH3701	2680511Z01	SHIELD SYNTHESIZER
SH3702	2680511Z01	SHIELD SYNTHESIZER
SH3801	2680513Z01	SHIELD VCO TOP
SH3802	2680514Z01	SHIELD VCO BOTTOM/LVZIF
SH400	2680505Z01	CONTROLLER TOP LEFT
SH401	2680506Z01	CONTROLLER TOP RIGHT
SH402	2680515Z01	CONTROLLER BOTTOM LEFT
SH403	2680516Z01	CONTROLLER BTM RIGHT
T3301	2580541Z01	BALUN TRANSFORMER
T3302	2580541Z01	BALUN TRANSFORMER
U3201	5102463J58	3.3V REG IN SOT23-5 PKG
U3220	5109632D83	IC LVZIF 2.2 H60G 48TQFP
U3501	5105109Z67	IC LDMOS DRIVER VHF/UHF
U3502	5185765B01	IC POWER CONTROL PASS 2.3
U3503	5185963A15	IC TEMP SENSOR 1M50C
U3701	5185963A27	IC FRACN AT25016 48 PIN GFP
U3711	5105739X05	IC 5V REGULATOR
U3801	5105750U54	IC VCO BUFFER
U400	5102463J40	REG 3.3V, LP2951CMM-3.3
U404	5185963A53	IC ASFIC CMP TQFP 48PIN PKG
U405	5102463J36	STATIC_RAM_32KX8
* U406	5102463J60	IC 512KX8 FLASH ROM
* U407	5102463J64	16KX8 SPI SERIAL EEPROM
U409	5102226J56	68HC11FLO_PASS5 TQFP
U410	5102463J57	REG 3.3V, ILC7062CM-33
		only GP360, GP380, GP680
U420	5102463J44	AUDIO AMPLIFIER TDA8547TS
VR432	4805656W08	ZENER QUAD
VR433	4805656W08	ZENER QUAD

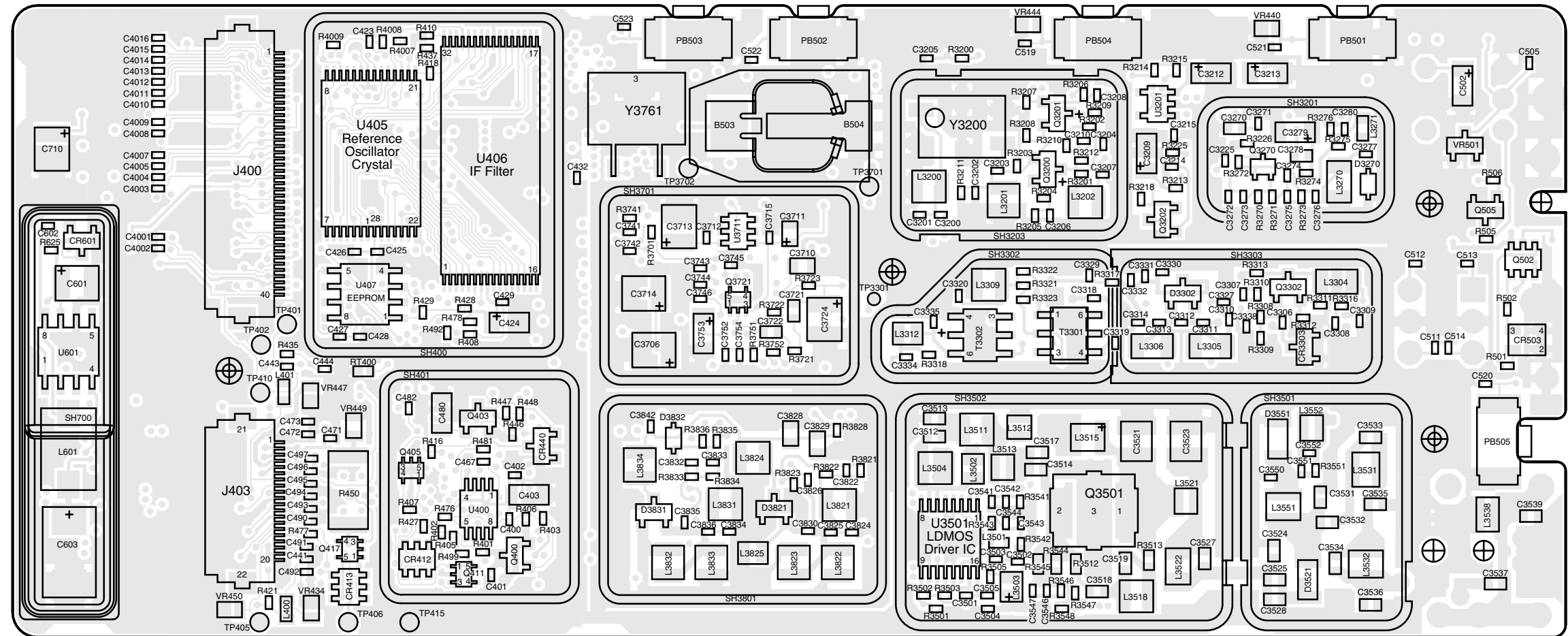
Circuit Ref	Motorola Part No	Description
VR434	4802245J51	ZENER DIODE; BZX284-C6V8"
VR439	4880140L15	10V ZENER
VR447	4802245J53	ZENER_DIODE; BZX284-C10
VR448	4802245J53	ZENER_DIODE; BZX284-C10
VR449	4802245J53	ZENER_DIODE; BZX284-C10
VR450	4802245J53	ZENER_DIODE; BZX284-C10
VR501	4813830A18	6.8V 5% 225MWMMBZ5235B_
VR506	4802245J51	ZENER DIODE; BZX284-C6V8
Y3200	9186153B01	XTAL FILTER, SMD 45.1MHz
Y3761	4802245J49	CRYSTL 16.8MHZ WITH CLIP

* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

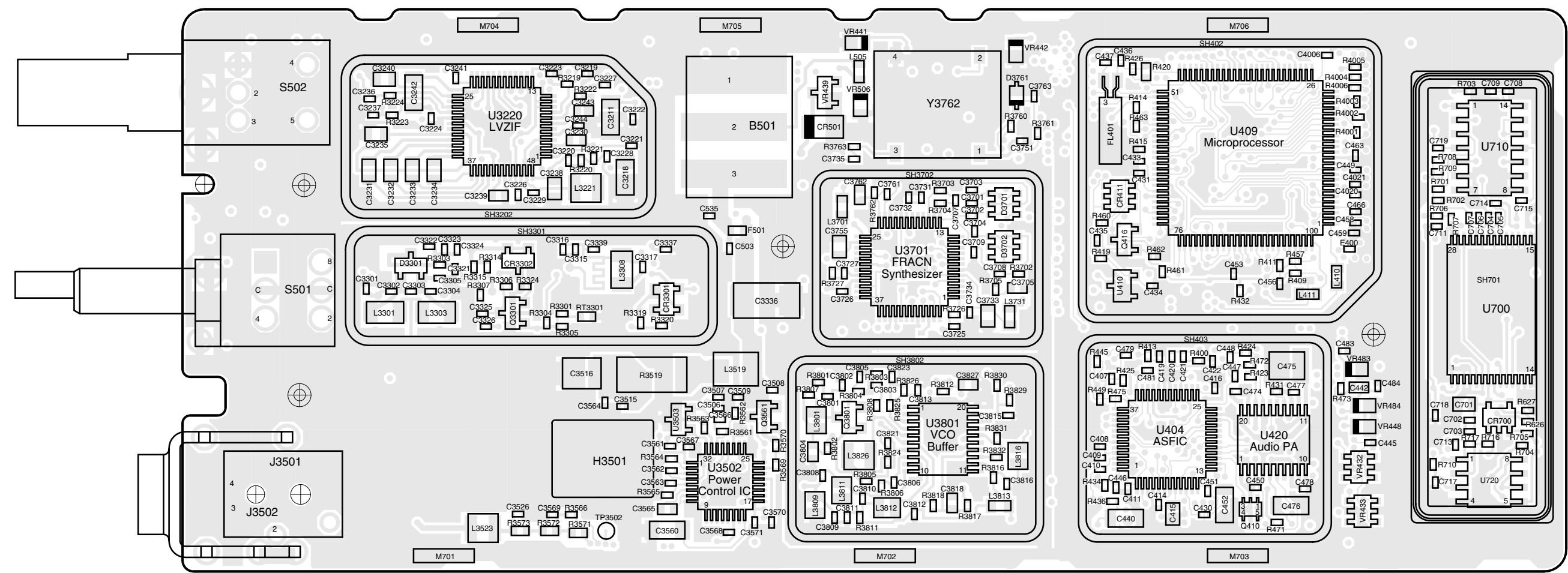
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4.0 VHF PCB 8486101B09 / Schematics (GP1280)



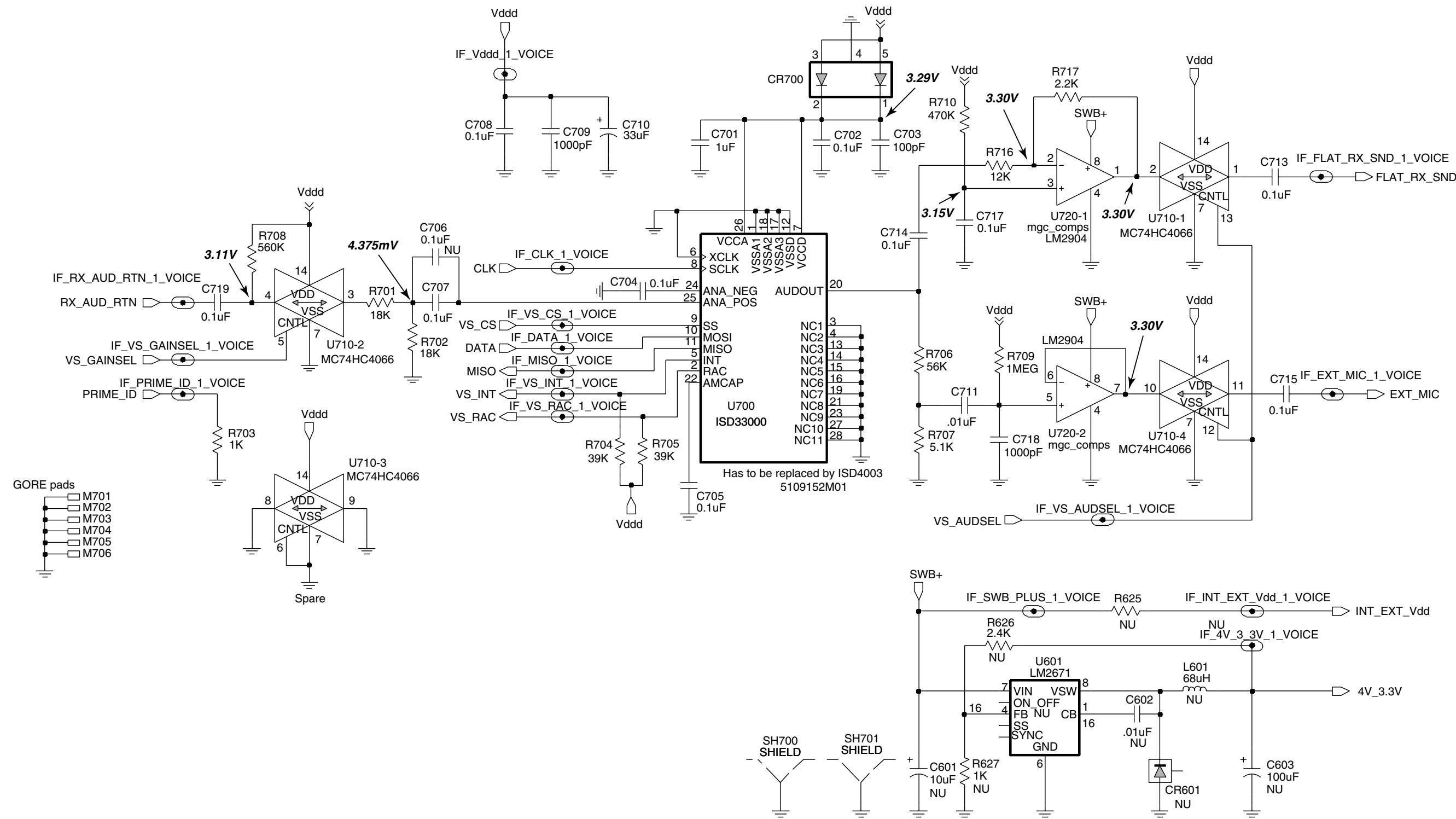
ZWG0130096-A

VHF (136-174 MHz) Main Board Top Side



ZWG0130097-A

VHF (136-174 MHz) Main Board Bottom Side



ZWG0130296-A

VHF (136-174 MHz) GP1280 - Voice Storage Schematic

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5.0 VHF PCB 8086101B09 Parts List (GP1280)

Circuit Ref	Motorola Part No	Description
B501	0986237A01	CONN, CONTACT BATTERY
B503	3980502Z01	CONTACT, BACKUP B+
B504	3980501Z01	CONTACT, BACKUP B-
C3200	2113743N31	16.0 PF 5%
C3203	2113743N50	100 PF 5%
C3204	2113743L41	10000 PF 10%
C3205	2113928N01	0.1UF 10% 6.3
C3206	2113743L41	10000 PF 10%
C3207	2113743N10	2.2 PF +/- .25PF
C3209	2311049A07	TANT 10% 1.0UF
C3210	2113743L17	1000 PF 10%
C3211	2311049A56	TAN CHIP A/P 4.7 20 10
C3212	2311049A07	TANT 10% 1.0UF
C3213	2311049A56	TAN CHIP A/P 4.7 20 10
C3214	2113928N01	CERAMIC CHIP 10.0UF
C3215	2113743N26	10.0 PF 5%
C3218	2311049A56	TAN CHIP A/P 4.7 20 10
C3219	2113928N01	CERAMIC CHIP 10.0UF
C3220	2113743N26	10.0 PF 5%
C3221	2113743L41	10000 PF 10%
C3222	2113928N01	CERAMIC CHIP 10.0UF
C3223	2113928N01	0.1UF 10% 6.3
C3224	2113928N01	0.1UF 10% 6.3
C3225	2113928N01	0.1UF 10% 6.3
C3226	2113928N01	0.1UF 10% 6.3
C3227	2113743L41	10000 PF 10%
C3228	2113743L41	10000 PF 10%
C3229	2113743N50	100 PF 5%
C3230	2113740F51	REEL CL1 +/-30 100
C3231	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3232	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3233	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3234	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3235	2113743A23	.220UF 10%
C3238	2113743A24	.330 UF 10% 16V
C3239	2113743E07	.022UF
C3240	2113743A23	.220UF 10%
C3241	2113743L19	1200 PF 10%
C3242	2109720D14	LOW DIST 0.1UF
C3243	2113743E07	.022UF
C3244	2113743L41	10000 PF 10%
C3270	2113743E07	.022UF
C3271	2113743L05	330 PF 10%
C3272	2113743N18	4.7 PF +/- .25PF
C3273	2113743N26	10.0 PF 5%
C3274	2113743N38	33.0 PF 5%
C3275	2113743N44	56.0 PF 5%

Circuit Ref	Motorola Part No	Description
C3276	2113743N42	47.0 PF 5%
C3277	2113743N48	82.0 PF 5%
C3278	2113743E07	.022UF
C3279	2311049A40	GLOBAL TANT 10% 2.2 UF
C3280	2113743L41	10000 PF 10%
C3301	2113743N20	5.6 PF +/- .5PF
C3302	2113743N54	150 PF 5%
C3303	2113743N30	15.0PF 5%
C3304	2113743N54	150 PF 5%
C3306	2113928N01	0.1UF 10% 6.3
C3307	2113743N50	100 PF 5%
C3308	2113743L05	330 PF 10%
C3309	2113928N01	0.1UF 10% 6.3
C3311	2113743N54	150 PF 5%
C3312	2113743N31	16.0 PF 5%
C3313	2113743N54	150 PF 5%
C3315	2113743N26	10.0 PF 5%
C3316	2113743N14	3.3 PF +/- .25PF
C3317	2113743N40	39.0 PF 5%
C3318	2113743M08	22000PF +80-20% Y5V
C3320	2113743N48	82.0 PF 5%
C3321	2113743L05	330 PF 10%
C3322	2113743N50	100 PF 5%
C3323	2113743N50	100 PF 5%
C3324	2113743N38	33.0 PF 5%
C3325	2113743L17	1000 PF 10%
C3327	2113743L05	330 PF 10%
C3329	2113743L05	330 PF 10%
C3330	2113743N50	100 PF 5%
C3331	2113743N50	100 PF 5%
C3332	2113743N40	39.0 PF 5%
C3334	2113743N33	20.0 PF 5%
C3335	2113743N34	22.0 PF 5%
C3336	2311049A18	CAP. TANT 10% 10UF
C3337	2113743M08	22000PF +80-20% Y5V
C3338	2113743L09	470 PF 10%
C3339	2113743N26	10.0 PF 5%
C3501	2113743L05	330 PF 10%
C3502	2113743N38	33.0 PF 5%
C3503	2113743N38	33.0 PF 5%
C3504	2113743M08	22000PF +80-20% Y5V
C3505	2113743N38	33.0 PF 5%
C3508	2113743M08	22000PF +80-20% Y5V
C3509	2113743L05	330 PF 10%
C3512	2113740F43	REEL CL1 +/-30 47
C3513	2113740F38	REEL CL1 +/-30 30
C3514	2113740F67	CL1 +/-30 470 5%
C3515	2113743L29	3300PF 10%
C3516	2311049A08	KEMET CAPS
C3517	2113740F51	REEL CL1 +/-30 100
C3518	2113740F63	CL1 +/-30 330 5%

Circuit Ref	Motorola Part No	Description
C3519	2113740F35	REEL CL1 +/-30 22
C3521	2111078B51	RF 220 5 NPO 100V
C3523	2111078B44	RF 120 5 NPO 100V
C3524	2113740F33	REEL CL1 +/-30 18
C3525	2113740F27	REEL CL1 +/-30 10
C3526	2113743M08	22000PF +80-20% Y5V
C3528	2113740F26	REEL CL1 +/-30 9.1
C3531	2113740F34	REEL CL1 +/-30 20
C3532	2113740F47	REEL CL1 +/-30 68
C3533	2113740F24	REEL CL1 +/-30 7.5
C3534	2113740F19	CHIP CAP, CER 4.7PF
C3535	2113740F37	REEL CL1 +/-30 27
C3536	2113740F31	REEL CL1 +/-30 15
C3537	2113740F33	REEL CL1 +/-30 18
C3539	2113740F21	REEL CL1 +/-30 5.6
C3541	2113743M08	22000PF +80-20% Y5V
C3542	2113743L05	330 PF 10%
C3543	2113743M08	22000PF +80-20% Y5V
C3544	2113743L05	330 PF 10%
C3546	2113743L05	330 PF 10%
C3547	2113743M08	22000PF +80-20% Y5V
C3550	2113743N23	7.5 PF +/- .5PF
C3551	2113743N46	68.0 PF 5%
C3552	2113743N44	56.0 PF 5%
C3560	2311049A07	TANT 10% 1.0UF
C3561	2113743M08	22000PF +80-20% Y5V
C3562	2113743L29	3300PF 10%
C3563	2113743L29	3300PF 10%
C3564	2113743L01	220 PF 10%
C3565	2113743E07	.022UF
C3566	2113743N50	100 PF 5%
C3567	2113743L05	330 PF 10%
C3568	2113743L29	3300PF 10%
C3569	2113743M08	22000PF +80-20% Y5V
C3570	2113743L05	330 PF 10%
C3571	2113743L09	470 PF 10%
C3701	2113743L41	10000 PF 10%
C3702	2113743L41	10000 PF 10%
C3703	2113743L41	10000 PF 10%
C3704	2113743L41	10000 PF 10%
C3705	2113743E20	CHIP. 10 UF 10%
C3706	2311049J11	CAPACITOR TANT 10% 4.7UF
C3707	2113743N34	22.0 PF 5%
C3708	2113743M24	100000 PF +80-20% Y5V
C3709	2113743M24	100000 PF +80-20% Y5V
C3710	2104993J02	MONOLITH CERAMIC (2.2UF)
C3711	2311049A69	TAN CHIP 10.0 UF 20% 6.3V
C3712	2113743M24	100000 PF +80-20% Y5V
C3713	2311049A09	TANT 2.2 UF 10%
C3714	2311049J11	CAPACITOR TANT 10% 4.7UF
C3715	2113743L09	470 PF 10%

Circuit Ref	Motorola Part No	Description
C3721	2113743E20	CHIP. 10 UF 10%
C3722	2113743E20	CHIP. 10 UF 10%
C3724	2311049A08	KEMET CAPS
C3726	2113743N24	8.2 PF +/- .5PF
C3727	2113743N50	100 PF 5%
C3731	2113743L41	10000 PF 10%
C3732	2113743L41	10000 PF 10%
C3733	2104993J02	MONOLITH CERAMIC (2.2UF)
C3734	2113743L41	10000 PF 10%
C3742	2113743L01	220 PF 10%
C3743	2113743L01	220 PF 10%
C3744	2113743L01	220 PF 10%
C3745	2113743L01	220 PF 10%
C3746	2113743L01	220 PF 10%
C3752	2113743L17	1000 PF 10%
C3753	2311049A56	TAN CHIP A/P 4.7 20 10
C3754	2113743M24	100000 PF +80-20% Y5V
C3755	2104993J02	MONOLITH CERAMIC (2.2UF)
* C3761	2113743N44	56.0 PF 5%
* C3762	2113740F63	330 CL1 +/-30 5%
* C3763	2113743N08	1.6 PF +/- .25PF
C3801	2113743N18	4.7 PF +/- .25PF
C3803	2113743L17	1000 PF 10%
C3804	2113743E20	CHIP. 10 UF 10%
C3805	2113743N18	4.7 PF +/- .25PF
C3806	2113743N50	100 PF 5%
C3808	2113743N30	15.0PF 5%
C3809	2113743N36	27.0 PF 5%
C3811	2113743M24	100000 PF +80-20% Y5V
C3812	2113743M24	100000 PF +80-20% Y5V
C3813	2113743L41	10000 PF 10%
C3815	2113743L17	1000 PF 10%
C3816	2113743N22	6.8 PF +/- .5PF
C3818	2113743E07	.022UF
C3821	2113743L41	10000 PF 10%
C3822	2113743L17	1000 PF 10%
C3823	2113743L41	10000 PF 10%
C3824	2113743N44	56.0 PF 5%
C3825	2113743N30	15.0PF 5%
C3826	2113743N18	4.7 PF +/- .25PF
C3827	2113743E07	.022UF
C3828	2109720D01	LOW DIS T .01UF
C3829	2109720D01	LOW DIS T .01UF
C3830	2113743N46	68.0 PF 5%
C3832	2113743L17	1000 PF 10%
C3833	2113743N18	4.7 PF +/- .25PF
C3834	2113743N44	56.0 PF 5%
C3835	2113743N22	6.8 PF +/- .5PF
C3836	2113743N30	15.0PF 5%
C3842	2113743L17	1000 PF 10%
C400	2113743L41	10000 PF 10%

Circuit Ref	Motorola Part No	Description
C4001	2113743N50	100 PF 5%
C4002	2113743N50	100 PF 5%
C4003	2113743N50	100 PF 5%
C401	2113743M24	100000 PF +80-20% Y5V
C402	2113743M24	100000 PF +80-20% Y5V
C4020	2113743L17	1000 PF 10%
C4021	2113743L17	1000 PF 10%
C403	2113928D08	CERAMIC CHIP 10.0UF
C407	2113928N01	0.1UF 10% 6.3
C408	2113743N50	100 PF 5%
C409	2113743M24	100000 PF +80-20% Y5V
C410	2113928N01	0.1UF 10% 6.3
C411	2113743M24	100000 PF +80-20% Y5V
C414	2113743M24	100000 PF +80-20% Y5V
C415	2109720D01	LOW DIS T .01UF
C416	2113928N01	0.1UF 10% 6.3
C419	2113743L41	10000 PF 10%
C420	2113743L41	10000 PF 10%
C421	2113928N01	0.1UF 10% 6.3
C422	2113743M24	100000 PF +80-20% Y5V
C423	2113743N50	100 PF 5%
C424	2311049A59	TANT CHIP A/P 10UF 10% 6V
C425	2113743M24	100000 PF +80-20% Y5V
C426	2113743N50	100 PF 5%
C427	2113743N50	100 PF 5%
C428	2113743M24	100000 PF +80-20% Y5V
C429	2113743M24	100000 PF +80-20% Y5V
C430	2113928N01	0.1UF 10% 6.3
C431	2113743N50	100 PF 5%
C433	2113743L41	10000 PF 10%
C434	2113743M24	100000 PF +80-20% Y5V
C435	2113743M24	100000 PF +80-20% Y5V
C436	2113743N34	22.0 PF 5%
C437	2113743N34	22.0 PF 5%
C440	2113743G26	4.7UF 16V + 80-20%
C441	2113743L09	470 PF 10%
C442	2113743E20	10 UF 10%
C443	2113928N01	CERAMIC CHIP 10.0UF
C444	2113743N50	100 PF 5%
C445	2113743L09	470 PF 10%
C446	2113743L09	470 PF 10%
C447	2113928N01	CERAMIC CHIP 10.0UF
C448	2113928N01	CERAMIC CHIP 10.0UF
C449	2113743N50	100 PF 5%
C451	2113743M08	22000PF +80-20% Y5V
C452	2113743G26	4.7UF 16V + 80-20%
C453	2113743N50	100 PF 5%
C456	2113743N50	100 PF 5%
C458	2113743N50	100 PF 5%
C459	2113743N50	100 PF 5%
C463	2113743N50	100 PF 5%

Circuit Ref	Motorola Part No	Description
C466	2113743N50	100 PF 5%
C467	2113928N01	0.1UF 10% 6.3
C471	2113743L09	470 PF 10%
C472	2113743L09	470 PF 10%
C473	2113743L09	470 PF 10%
C474	2113743L41	10000 PF 10%
C475	2113743H14	10.0 UF 16V +80-20%
C476	2113928D08	CERAMIC CHIP 10.0UF
C477	2113743L17	1000 PF 10%
C478	2113743L17	1000 PF 10%
C479	2113928N01	0.1UF 10% 6.3
C480	2113928D08	CERAMIC CHIP 10.0UF
C481	2113928N01	0.1UF 10% 6.3
C482	2113928N01	0.1UF 10% 6.3
C483	2113743L09	470 PF 10%
C484	2113743L09	470 PF 10%
C490	2113743L09	470 PF 10%
C491	2113743L09	470 PF 10%
C492	2113743L09	470 PF 10%
C493	2113743N50	100 PF 5%
C494	2113743N50	100 PF 5%
C495	2113743L09	470 PF 10%
C496	2113743L09	470 PF 10%
C497	2113743L09	470 PF 10%
C502	2311049A05	TANT 10% 0.47UF
C503	2113743N50	100 PF 5%
C505	2113743N50	100 PF 5%
C511	2113743N50	100 PF 5%
C512	2113743N50	100 PF 5%
C513	2113743N50	100 PF 5%
C514	2113743N50	100 PF 5%
C520	2113743L41	10000 PF 10%
C521	2113743L41	10000 PF 10%
C522	2113743L41	10000 PF 10%
C523	2113743L41	10000 PF 10%
C535	2113743L17	1000 PF 10%
C701	2180478Z20	MONOLITHIC CER (1.0UF)
C702	2113928N01	0.1UF 10% 6.3
C703	2113743N50	100 PF 5%
C704	2113928N01	0.1UF 10% 6.3
C705	2113928N01	0.1UF 10% 6.3
C707	2113928N01	0.1UF 10% 6.3
C708	2113928N01	0.1UF 10% 6.3
C709	2113743L17	1000 PF 10%
C711	2113743L41	10000 PF 10%
C713	2113928N01	0.1UF 10% 6.3
C714	2113928N01	0.1UF 10% 6.3
C715	2113928N01	0.1UF 10% 6.3
C717	2113928N01	0.1UF 10% 6.3
C718	2113743L17	1000 PF 10%
C719	2113928N01	0.1UF 10% 6.3

Circuit Ref	Motorola Part No	Description
CR3301	4802245J42	RING QUAD SOT-143 PKG
CR3302	4805129M96	DIODE DUAL
CR3303	4880154K03	SOT MMBD353 DUAL SCHTKY
CR411	4802245J47	SCHOTTKY BARIER(RB471E)
CR411	4802245J62	DIODE SCHOTTKY, RB731U
CR412	4802245J62	DIODE SCHOTTKY, RB731U
CR413	4802245J62	DIODE SCHOTTKY, RB731U
CR440	4813833C02	DUAL 70V '5B' COMM CATH
CR501	4880107R01	RECTIFIER
CR503	4805729G49	DIODE RED/YEL
CR700	4802245J47	SCHOTTKY BARIER(RB471E)
D3270	4862824C01	DIODE VARACTOR
D3301	4802081B58	DUAL SILCON (VARICAP)
D3302	4802081B58	DUAL SILCON (VARICAP)
D3521	4880973Z02	PIN DIODE
D3551	4880973Z02	PIN DIODE
D3701	4802233J09	DIODE TRIPLE SOT25-RH
D3702	4802233J09	DIODE TRIPLE SOT25-RH
* D3761	4862824C03	DIODE VARACTOR
D3821	4805649Q13	DIODE VCTR ISV 228
D3831	4805649Q13	DIODE VCTR ISV 228
D3832	4862824C01	DIODE VARACTOR
E400	2480640Z01	C/IND BK1005HM471 BEAD
F501	6580542Z01	FUSE SMT TR/1608FF 3A
FL401	4870368G02	REFLOW CLOCK OSC XTAL
H3501	2680499Z01	HEAT SPREADER
J3501	0180117S05	RF JACK ASSEMBLY
J3502	0280519Z02	NUT, ANTENNA
J400	0905505Y04	CONN ZIF HORIZONTAL
J403	0905505Y02	CONN MALE 20 PIN ZIF
L3200	2462587N68	CHIP IND 1000 NH 5%
L3202	2462587N68	CHIP IND 1000 NH 5%
L3221	2462587N68	CHIP IND 1000 NH 5%
L3270	2462587T15	IND 100NH 5% LOW PRO
L3271	2462587Q20	IND CHIP 2,200NH 20%
L3301	2462587T35	IND CHIP 12NH 5% LOW PRO
L3303	2462587T35	IND CHIP 12NH 5% LOW PRO
L3304	2462587T23	IND CHIP 470NH 5%LOW PRO
L3305	2462587T35	IND CHIP 12NH 5% LOW PRO
L3306	2462587T35	IND CHIP 12NH 5% LOW PRO
L3308	2462587T34	IND CHIP 10NH 5% LOW PRO
L3309	2462587N55	CHIP IND 150 NH 5%
L3312	2462587V28	CHIP IND 33 NH 5% 0805
L3501	2413926H09	IND CHIP 5.6 NH +/- 0.3NH
L3503	2462587V32	CHIP IND 68NH 5% 0805
L3504	2462587N51	CHIP IND 68 NH 5%
L3511	2462587N44	CHIP IND 18 NH 5%
L3512	2479990B01	AIR WND COIL/GRN 11.03NH
L3513	2479990A02	AIR WND COIL/GRN 7.66NH
L3515	2479990C03	AIR WND COIL/GRN 13.85NH
L3518	2462587N48	CHIP IND 39 NH 5%

Circuit Ref	Motorola Part No	Description
L3519	2484657R01	INDUCTOR BEAD CHIP
L3521	2479990A02	AIR WND COIL/GRN 7.66NH
L3522	2479990E01	COIL AIR WND/GRN 23.75
L3523	2462587N68	CHIP IND 1000 NH 5%
L3531	2479990N01	AIR WND COIL/GRN 43.67NH
L3532	2479990N01	AIR WND COIL/GRN 43.67NH
L3538	2479990M01	AIR WND COIL/GRN 30.54NH
L3551	2479990N01	AIR WND COIL/GRN 43.67NH
L3552	2479990A02	AIR WND COIL/GRN 7.66NH
L3701	2462587Q42	IND CHIP 390NH 10%
L3731	2462587Q20	IND CHIP 2,200NH 20%
L3801	2462587V34	CHIP IND 100NH 5% 0805
L3809	2462587V27	CHIP IND 27 NH 5% 0805
L3811	2462587V34	CHIP IND 100NH 5% 0805
L3812	2462587V34	CHIP IND 100NH 5% 0805
L3813	2462587Q47	IND CHIP 1000 NH 10%
L3816	2462587V34	CHIP IND 100NH 5% 0805
L3821	2462587N50	CHIP IND 56 NH 5%
L3822	2462587N49	CHIP IND 47 NH 5%
L3823	2462587N49	CHIP IND 47 NH 5%
L3824	2462587N68	CHIP IND 1000 NH 5%
L3825	2462587V34	CHIP IND 100NH 5% 0805
L3826	2462587N68	CHIP IND 1000 NH 5%
L3831	2462587N50	CHIP IND 56 NH 5%
L3832	2462587N51	CHIP IND 68 NH 5%
L3833	2462587N50	CHIP IND 56 NH 5%
L3834	2462587N68	CHIP IND 1000 NH 5%
L400	2462587Q42	IND CHIP 390NH 10%
L401	2462587Q42	IND CHIP 390NH 10%
L410	2462587Q42	IND CHIP 390NH 10%
L411	2462587Q42	IND CHIP 390NH 10%
L505	2462587Q42	IND CHIP 390NH 10%
M701	7585651Z01	PAD, FLEXIBLE
M702	7585651Z01	PAD, FLEXIBLE
M703	7585651Z01	PAD, FLEXIBLE
M704	7585651Z01	PAD, FLEXIBLE
M705	7585651Z01	PAD, FLEXIBLE
M706	7585651Z01	PAD, FLEXIBLE
PB501	4080523Z01	SWITCH, TACT
PB502	4080523Z01	SWITCH, TACT
PB503	4080523Z01	SWITCH, TACT
PB504	4080523Z01	SWITCH, TACT
PB505	4080523Z01	SWITCH, TACT
Q3200	4813827A07	NPNSML SIG MMBR941LT1 7Y
Q3201	4880214G02	TSTR MMBT3904
Q3202	4880214G02	TSTR MMBT3904
Q3270	4805218N63	RF TRANS SOT 323 Bfq67W
Q3301	4880214G02	TSTR MMBT3904
Q3302	4813827A07	NPNSML SIG MMBR941LT1 7Y
Q3501	4802245J55	POWER FIELD EFFECT
Q3561	4813824A17	XSTR PNP40V .2A B=100-300

Circuit Ref	Motorola Part No	Description
Q3721	4802245J50	DUAL NPN/PNP UMC5N
Q3801	4813827A07	NPNSML SIG MMBR941LT1 7Y
Q400	4809579E18	MOSFET P-CHAN TP010IT
Q403	4880214G02	TSTR MMBT3904
Q405	4802245J54	UMG5N DIGITAL TRANSIS-TOR
Q410	4802245J54	UMG5N DIGITAL TRANSIS-TOR
Q416	4809579E18	MOSFET P-CHAN TP010IT
Q417	4802245J50	DUAL NPN/PNP UMC5N
Q502	5180159R01	DUAL TRANS NPNS
Q505	4880214G02	TSTR MMBT3904
R3200	0662057M54	150 5% 20X40
R3201	0662057M82	2200 5% 20X40
R3202	0662057M90	4700 5% 20X40
R3203	0662057M98	10K 5% 20X40
R3204	0662057M26	10 5% 20X40
R3205	0662057M74	1000 5% 20X40
R3206	0662057N23	100K 5% 20X40
R3207	0662057N13	39K 5% 20X40
R3208	0662057M50	100 5% 20X40
R3209	0662057M74	1000 5% 20X40
R3210	0662057M82	2200 5% 20X40
R3211	0662057M82	2200 5% 20X40
R3212	0662057M90	4700 5% 20X40
R3213	0662057M82	2200 5% 20X40
R3214	0662057M34	22 5% 20X 40
R3219	0662057M50	100 5% 20X40
R3220	0662057M90	4700 5% 20X40
R3221	0662057M50	100 5% 20X40
R3224	0662057M26	10 5% 20X40
R3225	0662057M74	1000 5% 20X40
R3226	0662057M26	10 5% 20X40
R3270	0662057M74	1000 5% 20X40
R3271	0662057M42	47 5% 20X40
R3272	0662057N15	47K 5% 20X40
R3273	0662057N15	47K 5% 20X40
R3274	0662057M83	2400 5% 20X40
R3275	0662057M74	1000 5% 20X40
R3276	0662057N30	200K 5% 20X40
R3303	0662057N23	100K 5% 20X40
R3304	0662057N23	100K 5% 20X40
R3305	0662057N19	68K 5% 20X40
R3306	0662057M82	2200 5% 20X40
R3307	0662057N11	33K 5% 20X40
R3308	0662057M78	1500 5% 20X40
R3309	0662057M92	5600 5% 20X40
R3310	0662057M98	10K 5% 20X40
R3311	0662057M26	10 5% 20X40
R3312	0662057M38	33 5% 20X40
R3313	0662057M34	22 5% 20X 40

Circuit Ref	Motorola Part No	Description
R3314	0662057M26	10 5% 20X40
R3315	0662057M62	330 5% 20X40
R3316	0662057M66	470 5% 20X40
R3317	0662057N23	100K 5% 20X40
R3318	0662057M66	470 5% 20X40
R3321	0662057M54	150 5% 20X40
R3322	0662057M58	220 5% 20X40
R3323	0662057M32	18 5% 20X40
R3324	0662057M58	220 5% 20X40
R3501	0662057M61	300 5% 20X40
R3502	0662057M32	18 5% 20X40
R3503	0662057M61	300 5% 20X40
R3505	0662057M62	330 5% 20X40
R3512	0662057A27	120 OHMS 5%
R3513	0662057A25	100 OHMS 5%
R3519	0680539Z01	PWR METAL STRIP RES
R3542	0662057M92	5600 5% 20X40
R3543	0662057M50	100 5% 20X40
R3544	0662057A25	100 OHMS 5%
R3545	0662057A25	100 OHMS 5%
R3546	0662057N11	33K 5% 20X40
R3547	0662057N01	12K 5% 20X40
R3548	0662057M95	7500 55 20X40
R3551	0662057M40	39 5% 20X40
R3561	0662057N01	12K 5% 20X40
R3562	0662057N11	33K 5% 20X40
R3563	0662057N33	270K 5% 20X40
R3564	0662057N35	330K 5% 20X40
R3569	0662057M92	5600 5% 20X40
R3570	0662057M98	10K 5% 20X40
R3571	0662057A27	120 OHMS 5%
R3572	0662057A27	120 OHMS 5%
R3573	0662057A27	120 OHMS 5%
R3701	0662057M50	100 5% 20X40
R3703	0662057M54	150 5% 20X40
R3704	0662057M54	150 5% 20X40
R3705	0662057N11	33K 5% 20X40
R3721	0662057M66	470 5% 20X40
R3722	0662057M74	1000 5% 20X40
R3723	0662057M50	100 5% 20X40
R3727	0662057N23	100K 5% 20X40
R3741	0662057M50	100 5% 20X40
R3751	0662057N30	200K 5% 20X40
R3752	0662057N35	330K 5% 20X40
R3761	0662057N15	47K 5% 20X40
R3802	0662057M50	100 5% 20X40
R3803	0662057M58	220 5% 20X40
R3804	0662057M98	10K 5% 20X40
R3805	0662057N08	24K 5% 20X40
R3806	0662057M34	22 5% 20X 40
R3808	0662057M26	10 5% 20X40

Circuit Ref	Motorola Part No	Description
R3811	0662057M50	100 5% 20X40
R3816	0662057M74	1000 5% 20X40
R3817	0662057M01	0 5% 20X40
R3821	0662057M58	220 5% 20X40
R3822	0662057M42	47 5% 20X40
R3823	0662057N11	33K 5% 20X40
R3824	0662057N07	22K 5% 20X40
R3825	0662057M38	33 5% 20X40
R3826	0662057M32	18 5% 20X40
R3828	0662057M50	100 5% 20X40
R3829	0662057M01	0 5% 20X40
R3831	0662057M98	10K 5% 20X40
R3832	0662057N01	12K 5% 20X40
R3833	0662057M58	220 5% 20X40
R3834	0662057M42	47 5% 20X40
R3835	0662057N15	47K 5% 20X40
R3836	0662057M98	10K 5% 20X40
R400	0662057N15	47K 5% 20X40
R4001	0662057M74	1000 5% 20X40
R4002	0662057M74	1000 5% 20X40
R4003	0662057M74	1000 5% 20X40
R4004	0662057M74	1000 5% 20X40
R4005	0662057M74	1000 5% 20X40
R4006	0662057M74	1000 5% 20X40
R4007	0662057M74	1000 5% 20X40
R4008	0662057M74	1000 5% 20X40
R4009	0662057M74	1000 5% 20X40
R401	0662057M01	0 5% 20X40
R405	0662057M01	0 5% 20X40
R406	0662057N20	75K 5% 20X40
R407	0662057N19	68K 5% 20X40
R409	0662057M98	10K 5% 20X40
R410	0662057N23	100K 5% 20X40
R411	0662057M98	10K 5% 20X40
R413	0662057M01	0 5% 20X40
R414	0662057V34	180K 1% 1/16W
R415	0662057V26	91K 1% 1/16W
R416	0662057N13	39K 5% 20X40
R418	0662057M01	0 5% 20X40
R419	0662057M67	0 5% 20X40
R420	0662057B46	10.0 MEG OHMS 5%
R421	0662057M81	2000 5% 20X40
R423	0662057N21	82K 5% 20X40
R424	0662057N12	36K 5% 20X40
R425	0662057N10	30K 5% 20X40
R426	0662057N35	330K 5% 20X40
R427	0662057M84	2700 5% 20X40
R428	0662057M10	2.2 5% 20X40
R429	0662057M98	10K 5% 20X40
R431	0662057N39	470K 5% 20X40
R432	0662057N16	51K 5% 20X40

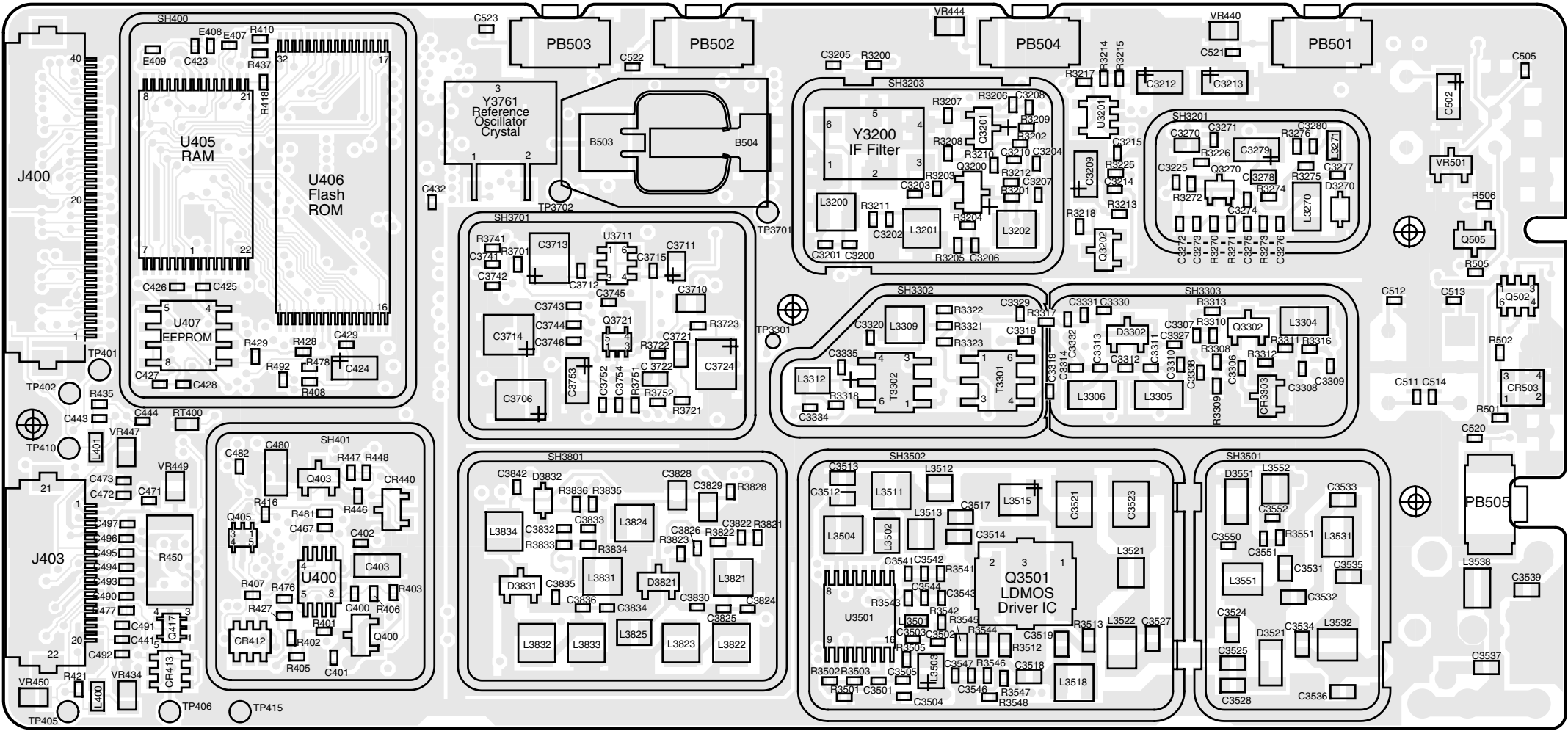
Circuit Ref	Motorola Part No	Description
R434	0662057M62	330 5% 20X40
R435	0662057M81	2000 5% 20X40
R436	0662057M01	0 5% 20X40
R445	0662057N08	24K 5% 20X40
R446	0662057N31	220K 5% 20X40
R447	0662057N51	1.5 MEG 5% 20X40
R448	0662057N33	270K 5% 20X40
R449	0662057N08	24K 5% 20X40
R450	0683962T45	68 5-1
R457	0662057M98	10K 5% 20X40
R460	0662057M90	4700 5% 20X40
R461	0662057M56	180 5% 20X40
R462	0662057M98	10K 5% 20X40
R463	0662057M61	300 5% 20X40
R471	0662057M92	5600 5% 20X40
R472	0662057M93	6200 5% 20X40
R473	0662057M26	10 5% 20X40
R475	0662057M01	0 5% 20X40
R476	0662057N08	24K 5% 20X40
R477	0662057M74	1000 5% 20X40
R478	0662057M98	10K 5% 20X40
R481	0662057N08	24K 5% 20X40
R492	0662057M01	0 5% 20X40
R499	0662057M98	10K 5% 20X40
R501	0662057M70	680 5% 20X40
R502	0662057M56	180 5% 20X40
R505	0662057M98	10K 5% 20X40
R506	0662057N15	47K 5% 20X40
R701	0662057N05	18K 5% 20X40
R702	0662057N05	18K 5% 20X40
R703	0662057M74	1000 5% 20X40
R704	0662057N13	39K 5% 20X40
R705	0662057N13	39K 5% 20X40
R706	0662057N17	56K 5% 20X40
R707	0662057M91	5100 5% 20X40
R708	0662057N41	560K 5% 20X40
R709	0662057N47	1.0 MEG 5% 20X40
R710	0662057N39	470K 5% 20X40
R716	0662057N01	12K 5% 20X40
R717	0662057M82	2200 5% 20X40
RT400	0680590Z01	THERMISTOR 33K
S501	4080710Z02	SWITCH (FREQUENCY)
S502	1880619Z01	POTENTIOMETER, VOLUME
SH3201	2602023X08	SHIELD
SH3202	2686081B02	SHIELD
SH3203	2686081B03	SHIELD
SH3301	2686081B01	SHIELD
SH3302	2686081B05	SHIELD
SH3303	2686081B06	SHIELD
SH3501	2686081B03	SHIELD
SH3502	2686081B04	SHIELD

Circuit Ref	Motorola Part No	Description
SH3701	2680511Z01	SHIELD SYNTHESIZER
SH3702	2680511Z01	SHIELD SYNTHESIZER
SH3801	2680513Z01	SHIELD VCO TOP
SH3802	2680514Z01	SHIELD VCO BOTTOM/LVZIF
SH400	2680505Z01	CTRL TOP LEFT
SH401	2680506Z01	CTRL TOP RIGHT
SH402	2680515Z01	CTRL BOTTOM LEFT
SH403	2680516Z01	CTRL BTM RIGHT
SH701	2680677Z01	(VOICE STORAGE BOTTOM)
T3301	2580541Z01	BALUN TRANSFORMER
T3302	2580541Z01	BALUN TRANSFORMER
U3201	5102463J58	3.3V REG IN SOT23-5 PKG
U3220	5109632D83	LVZIF 2.2 H60G 48TQFP
U3501	5105109Z67	IC LDMOS DRIVER VHF/UHF
U3502	5185765B01	IC PWR CONTROL PASS 2.3
U3503	5185963A15	IC TEMP SENSOR 1M50C
U3701	5185963A27	IC AT25016 48 PIN GFP
U3711	5105739X05	IC SOT 5V HI-PRECISION REG
U3801	5105750U54	IC PKG DIE VCO BUFFER
U400	5102463J40	REG 3.3V, LP2951CMM-3.3
U404	5185963A53	IC ASFIC CMP TQFP 48 PIN
U405	5102463J36	STATIC_RAM_32KX8
* U406	5102463J60	512X8 FLASH (AT49LV040)
* U407	5102463J64	16KX8 SPI SERIAL EEPROM
U409	5102226J56	68HC11FLO_PASS5 TQFP
U410	5102463J57	REG 3.3V, ILC7062CM-33
U411	4802245J54	UMG5N DIGITAL TRANSIS-TOR
U420	5102463J44	AUDIO AMP TDA8547TS
U700	5109152M01	IC EEPROM ISD3312OE1
U710	5102463J52	74HC4066D QUAD ANLOG SW
U720	5113818A01	SING SPLY LM2904DR
VR432	4805656W08	DIODE ZENER QUAD
VR433	4805656W08	DIODE ZENER QUAD
VR434	4802245J51	ZENER DIODE; BZX284-C6V8
VR439	4880140L15	10V ZENER
VR447	4802245J53	ZENER_DIODE; BZX284-C10
VR448	4802245J53	ZENER_DIODE; BZX284-C10
VR449	4802245J53	ZENER_DIODE; BZX284-C10
VR450	4802245J53	ZENER_DIODE; BZX284-C10
VR483	4802245J53	ZENER_DIODE; BZX284-C10
VR484	4802245J53	ZENER_DIODE; BZX284-C10
VR501	4813830A18	6.8V 5% 225MWMMBZ5235B_
VR506	4802245J51	ZENER DIODE; BZX284-C6V8
Y3200	4802245J43	MONOLITH/ XTAL FLTR
Y3761	4802245J49	XTAL 16.8MHZ WITH CLIP
	8486101B09	PCB WARIS P VHF PRIME

* Motorola Depot Servicing only

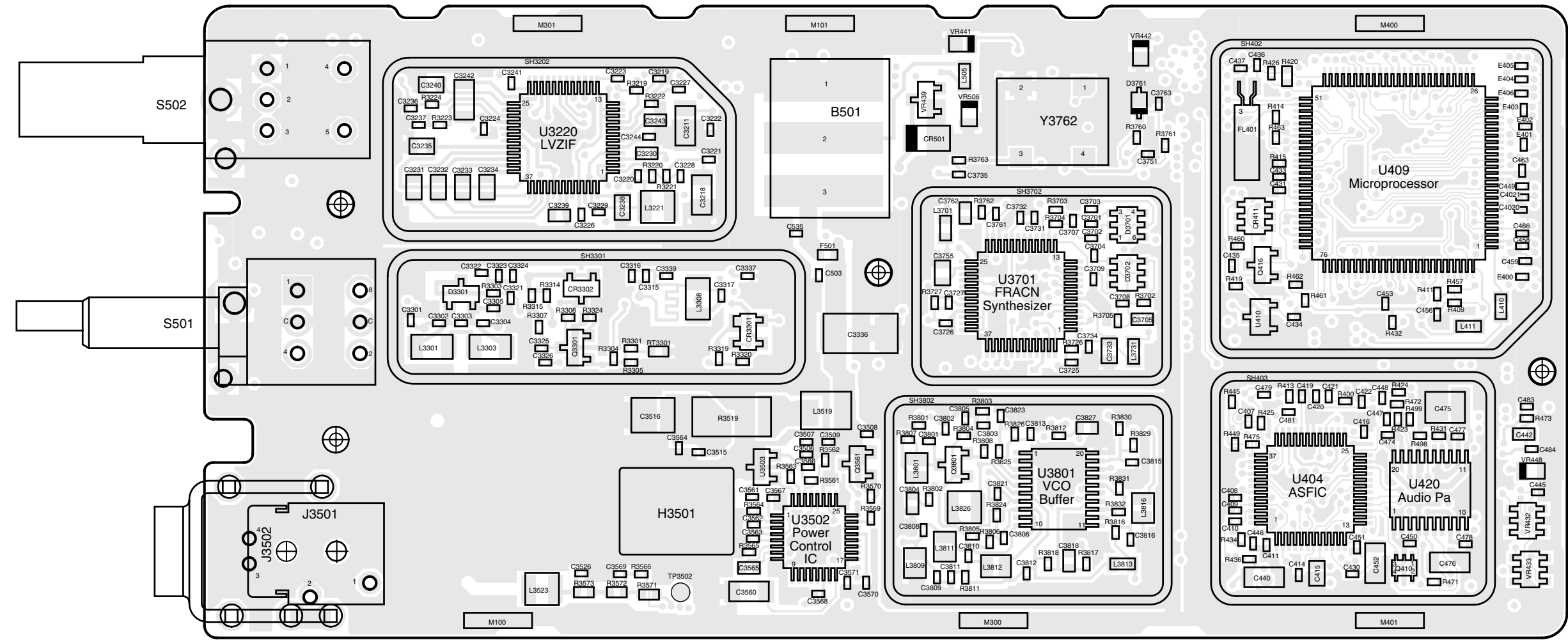
Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

6.0 VHF PCB 8486062B14



ZWG0130072-E

VHF (136-174 MHz) Main Board Top Side



ZWG0130073-D

VHF (136-174 MHz) Main Board Bottom Side

7.0 VHF PCB 8486062B14 Parts List

Circuit Ref	Motorola Part No	Description
B501	0986237A02	CONN, CONTACT BATT
B503	3980502Z01	CONTACT, BACKUP B+ only GP360, GP380, GP680
B504	3980501Z01	CONTACT, BACKUP B- only GP360, GP380, GP680
C3200	2113743N31	16.0 PF 5% COG
C3203	2113743N50	100 PF 5% COG
C3204	2113743L41	10000 PF 10%
C3205	2113928N01	CER CHIP 0.1UF 10% 6.3
C3206	2113743L41	10000 PF 10%
C3207	2113743N10	2.2 PF +/- .25PF COG
C3209	2311049A07	TANT 10% 1.0UF
C3210	2113743L17	1000 PF 10%
C3211	2311049A56	TAN CHIP A/P 4.7 20 10
C3212	2311049A07	TANT 10% 1.0UF
C3213	2311049A56	TAN CHIP A/P 4.7 20 10
C3214	2113928N01	CER CHIP 0.1UF 10% 6.3
C3215	2113743N26	10.0 PF 5% COG
C3218	2311049A56	TAN CHIP A/P 4.7 20 10
C3219	2113928N01	CER CHIP 0.1UF 10% 6.3
C3220	2113743N26	10.0 PF 5% COG
C3221	2113743L41	10000 PF 10%
C3222	2113928N01	CER CHIP 0.1UF 10% 6.3
C3223	2113928N01	CER CHIP 0.1UF 10% 6.3
C3224	2113928N01	CER CHIP 0.1UF 10% 6.3
C3225	2113928N01	CER CHIP 0.1UF 10% 6.3
C3226	2113928N01	CER CHIP 0.1UF 10% 6.3
C3227	2113743L41	10000 PF 10%
C3228	2113743L41	10000 PF 10%
C3229	2113743N50	100 PF 5% COG
C3230	2113740F51	REEL CL1 +/-30 100
C3231	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3232	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3233	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3234	2180478Z20	MONOLITHIC CERAMIC (1.0UF)
C3235	2113743A23	.220UF 10%
C3238	2113743A24	.330 UF 10% 16V
C3239	2113743E07	CER CHIP .022UF
C3240	2113743A23	.220UF 10%
C3241	2113743L19	1200 PF 10%
C3242	2109720D14	CER CHIP LOW DIST 0.1UF
C3243	2113743E07	CER CHIP .022UF
C3244	2113743L41	10000 PF 10%
C3270	2113743E07	CER CHIP .022UF
C3271	2113743L05	330 PF 10%
C3272	2113743N18	4.7 PF +/- .25PF COG
C3273	2113743N26	10.0 PF 5% COG
C3274	2113743N38	33.0 PF 5% COG
C3275	2113743N44	56.0 PF 5% COG
C3276	2113743N42	47.0 PF 5% COG
C3277	2113743N48	82.0 PF 5% COG
C3278	2113743E07	CER CHIP .022UF
C3279	2311049A40	GLOBAL TANT 10% 2.2 UF

Circuit Ref	Motorola Part No	Description
C3280	2113743L41	10000 PF 10%
C3301	2113743N20	5.6 PF +/- .5PF COG
C3302	2113743N54	150 PF 5% COG
C3303	2113743N30	15.0PF 5% COG
C3304	2113743N54	150 PF 5% COG
C3306	2113928N01	CER CHIP 0.1UF 10% 6.3
C3307	2113743N50	100 PF 5% COG
C3308	2113743L05	330 PF 10%
C3309	2113928N01	CER CHIP 0.1UF 10% 6.3
C3311	2113743N54	150 PF 5% COG
C3312	2113743N31	16.0 PF 5% COG
C3313	2113743N54	150 PF 5% COG
C3315	2113743N26	10.0 PF 5% COG
C3316	2113743N14	3.3 PF +/- .25PF COG
C3317	2113743N40	39.0 PF 5% COG
C3318	2113743M08	22000PF +80-20% Y5V
C3320	2113743N48	82.0 PF 5% COG
C3321	2113743L05	330 PF 10%
C3322	2113743N50	100 PF 5% COG
C3323	2113743N50	100 PF 5% COG
C3324	2113743N38	33.0 PF 5% COG
C3325	2113743L17	1000 PF 10%
C3327	2113743L05	330 PF 10%
C3329	2113743L05	330 PF 10%
C3330	2113743N50	100 PF 5% COG
C3331	2113743N50	100 PF 5% COG
C3332	2113743N40	39.0 PF 5% COG
C3334	2113743N33	20.0 PF 5% COG
C3335	2113743N34	22.0 PF 5% COG
C3336	2311049A18	TANT 10% 10UF
C3337	2113743M08	22000PF +80-20% Y5V
C3338	2113743L09	470 PF 10%
C3339	2113743N26	10.0 PF 5% COG
C3501	2113743L05	330 PF 10%
C3502	2113743N38	33.0 PF 5% COG
C3503	2113743N38	33.0 PF 5% COG
C3504	2113743M08	22000PF +80-20% Y5V
C3505	2113743N38	33.0 PF 5% COG
C3508	2113743M08	22000PF +80-20% Y5V
C3509	2113743L05	330 PF 10%
C3512	2113740F43	REEL CL1 +/-30 47
C3513	2113740F38	REEL CL1 +/-30 30
C3514	2113740F67	CL1 +/-30 470 5%
C3515	2113743L29	3300PF 10%
C3516	2311049A08	KEMET CAPS
C3517	2113740F51	REEL CL1 +/-30 100
C3518	2113740F63	CL1 +/-30 330 5%
C3519	2113740F35	REEL CL1 +/-30 22
C3521	2111078B51	RF 220 5 NPO 100V
C3523	2111078B44	RF 120 5 NPO 100V
C3524	2113740F33	REEL CL1 +/-30 18
C3525	2113740F27	REEL CL1 +/-30 10
C3526	2113743M08	22000PF +80-20% Y5V
C3528	2113740F26	REEL CL1 +/-30 9.1
C3531	2113740F34	REEL CL1 +/-30 20
C3532	2113740F47	REEL CL1 +/-30 68

Circuit Ref	Motorola Part No	Description
C3533	2113740F24	REEL CL1 +/-30 7.5
C3534	2113740F19	CHIP CAP, CER 4.7PF
C3535	2113740F37	REEL CL1 +/-30 27
C3536	2113740F31	REEL CL1 +/-30 15
C3537	2113740F33	REEL CL1 +/-30 18
C3539	2113740F21	REEL CL1 +/-30 5.6
C3541	2113743M08	22000PF +80-20% Y5V
C3542	2113743L05	330 PF 10%
C3543	2113743M08	22000PF +80-20% Y5V
C3544	2113743L05	330 PF 10%
C3546	2113743L05	330 PF 10%
C3547	2113743M08	22000PF +80-20% Y5V
C3550	2113743N23	7.5 PF +/- .5PF COG
C3551	2113743N46	68.0 PF 5% COG
C3552	2113743N44	56.0 PF 5% COG
C3560	2311049A07	TANT 10% 1.0UF
C3561	2113743M08	22000PF +80-20% Y5V
C3562	2113743L29	3300PF 10%
C3563	2113743L29	3300PF 10%
C3564	2113743L01	220 PF 10%
C3565	2113743E07	CER CHIP .022UF
C3566	2113743N50	100 PF 5% COG
C3567	2113743L05	330 PF 10%
C3568	2113743L29	3300PF 10%
C3569	2113743M08	22000PF +80-20% Y5V
C3570	2113743L05	330 PF 10%
C3571	2113743L09	470 PF 10%
C3701	2113743L41	10000 PF 10%
C3702	2113743L41	10000 PF 10%
C3703	2113743L41	10000 PF 10%
C3704	2113743L41	10000 PF 10%
C3705	2113743E20	CHIP. 10 UF 10%
C3706	2311049J11	CAPACITOR TANT 10% 4.7UF
C3707	2113743N34	22.0 PF 5% COG
C3708	2113743M24	100000 PF +80-20% Y5V
C3709	2113743M24	100000 PF +80-20% Y5V
C3710	2104993J02	MONOLITHIC CERAMIC (2.2UF)
C3711	2311049A69	TAN CHIP 10.0 UF 20% 6.3V
C3712	2113743M24	100000 PF +80-20% Y5V
C3713	2311049A09	TANT 2.2 UF 10%
C3714	2311049J11	CAPACITOR TANT 10% 4.7UF
C3715	2113743L09	470 PF 10%
C3721	2113743E20	CHIP. 10 UF 10%
C3722	2113743E20	CHIP. 10 UF 10%
C3724	2311049A08	KEMET CAPS
C3726	2113743N24	8.2 PF + -.5PF COG
C3727	2113743N50	100 PF 5% COG
C3731	2113743L41	10000 PF 10%
C3732	2113743L41	10000 PF 10%
C3733	2104993J02	MONOLITHIC CERAMIC (2.2UF)
C3734	2113743L41	10000 PF 10%
C3742	2113743L01	220 PF 10%
C3743	2113743L01	220 PF 10%
C3744	2113743L01	220 PF 10%
C3745	2113743L01	220 PF 10%
C3746	2113743L01	220 PF 10%

Circuit Ref	Motorola Part No	Description
C3752	2113743L17	1000 PF 10%
C3753	2311049A56	TAN CHIP A/P 4.7 20 10
C3754	2113743M24	100000 PF +80-20% Y5V
C3755	2104993J02	MONOLITHIC CERAMIC (2.2UF)
* C3761	2113743N44	56.0 PF 5% COG
* C3762	2113740F63	CL1 +/-30 330 5%
* C3763	2113743N08	1.6 PF +/- .25PF COG
C3801	2113743N18	4.7 PF +/- .25PF COG
C3803	2113743L17	1000 PF 10%
C3804	2113743E20	CHIP. 10 UF 10%
C3805	2113743N18	4.7 PF +/- .25PF COG
C3806	2113743N50	100 PF 5% COG
C3808	2113743N30	15.0PF 5% COG
C3809	2113743N36	27.0 PF 5% COG
C3811	2113743M24	100000 PF +80-20% Y5V
C3812	2113743M24	100000 PF +80-20% Y5V
C3813	2113743L41	10000 PF 10%
C3815	2113743L17	1000 PF 10%
C3816	2113743N22	6.8 PF +/- .5PF COG
C3818	2113743E07	CER CHIP .022UF
C3821	2113743L41	10000 PF 10%
C3822	2113743L17	1000 PF 10%
C3823	2113743L41	10000 PF 10%
C3824	2113743N44	56.0 PF 5% COG
C3825	2113743N30	15.0PF 5% COG
C3826	2113743N18	4.7 PF +/- .25PF COG
C3827	2113743E07	CER CHIP .022UF
C3828	2109720D01	CER CHIP LOW DIS T .01UF
C3829	2109720D01	CER CHIP LOW DIS T .01UF
C3830	2113743N46	68.0 PF 5% COG
C3832	2113743L17	1000 PF 10%
C3833	2113743N18	4.7 PF +/- .25PF COG
C3834	2113743N44	56.0 PF 5% COG
C3835	2113743N22	6.8 PF +/- .5PF COG
C3836	2113743N30	15.0PF 5% COG
C3842	2113743L17	1000 PF 10%
C400	2113743L41	10000 PF 10%
C401	2113743M24	100000 PF +80-20% Y5V
C402	2113743M24	100000 PF +80-20% Y5V
C403	2113928D08	CERAMIC CHIP 10.0UF
C407	2113928N01	CER CHIP 0.1UF 10% 6.3
C408	2113743N50	100 PF 5% COG
C409	2113743M24	100000 PF +80-20% Y5V
C410	2113928N01	CER CHIP 0.1UF 10% 6.3
C411	2113743M24	100000 PF +80-20% Y5V
C414	2113743M24	100000 PF +80-20% Y5V
C415	2109720D01	CER CHIP LOW DIS T .01UF
C416	2113928N01	CER CHIP 0.1UF 10% 6.3
C419	2113743L41	10000 PF 10%
C420	2113743L41	10000 PF 10%
C421	2113928N01	CER CHIP 0.1UF 10% 6.3
C422	2113743M24	100000 PF +80-20% Y5V
C423	2113743N50	100 PF 5% COG
C424	2311049A59	TANT CHIP A/P 10UF 10% 6V
C425	2113743M24	100000 PF +80-20% Y5V
C426	2113743N50	100 PF 5% COG

Circuit Ref	Motorola Part No	Description
C427	2113743N50	100 PF 5% COG
C428	2113743M24	100000 PF +80-20% Y5V
C429	2113743M24	100000 PF +80-20% Y5V
C430	2113928N01	CER CHIP 0.1UF 10% 6.3
C431	2113743N50	100 PF 5% COG
C433	2113743L41	10000 PF 10%
C434	2113743M24	100000 PF +80-20% Y5V only GP360, GP380, GP680
C435	2113743M24	100000 PF +80-20% Y5V
C436	2113743N34	22.0 PF 5% COG only GP360, GP380, GP680
C437	2113743N34	22.0 PF 5% COG only GP360, GP380, GP680
C440	2113743G26	4.7UF 16V + 80-20%
C441	2113743L09	470 PF 10%
C442	2113743E20	CHIP. 10 UF 10%
C443	2113928N01	CER CHIP 0.1UF 10% 6.3
C444	2113743N50	100 PF 5% COG
C445	2113743L09	470 PF 10%
C446	2113743L09	470 PF 10%
C447	2113928N01	CER CHIP 0.1UF 10% 6.3
C448	2113928N01	CER CHIP 0.1UF 10% 6.3
C449	2113743N50	100 PF 5% COG
C451	2113743M08	22000PF +80-20% Y5V
C452	2113743G26	4.7UF 16V + 80-20%
C453	2113743N50	100 PF 5% COG
C456	2113743N50	100 PF 5% COG
C458	2113743N50	100 PF 5% COG
C459	2113743N50	100 PF 5% COG
C463	2113743N50	100 PF 5% COG
C466	2113743N50	100 PF 5% COG
C467	2113928N01	CER CHIP 0.1UF 10% 6.3
C471	2113743L09	470 PF 10%
C472	2113743L09	470 PF 10%
C473	2113743L09	470 PF 10%
C474	2113743L41	10000 PF 10%
C475	2113743H14	10.0 UF 16V +80-20%
C476	2113928D08	CERAMIC CHIP 10.0UF
C477	2113743L17	1000 PF 10%
C478	2113743L17	1000 PF 10%
C479	2113928N01	CER CHIP 0.1UF 10% 6.3
C480	2113928D08	CERAMIC CHIP 10.0UF
C481	2113928N01	CER CHIP 0.1UF 10% 6.3
C482	2113928N01	CER CHIP 0.1UF 10% 6.3
C483	2113743L09	470 PF 10%
C484	2113743L09	470 PF 10%
C490	2113743L09	470 PF 10%
C491	2113743L09	470 PF 10%
C492	2113743L09	470 PF 10%
C493	2113743N50	100 PF 5% COG
C494	2113743N50	100 PF 5% COG
C495	2113743L09	470 PF 10%
C496	2113743L09	470 PF 10%
C497	2113743L09	470 PF 10%
C4020	2113743L17	1000PF 10% Placed on PCB 8486062B14 only

Circuit Ref	Motorola Part No	Description
C4021	2113743L17	1000PF 10% Placed on PCB 8486062B14 only
C502	2311049A05	TANT 10% 0.47UF
C503	2113743N50	100 PF 5% COG
C505	2113743N50	100 PF 5% COG
C511	2113743N50	100 PF 5% COG
C512	2113743N50	100 PF 5% COG
C513	2113743N50	100 PF 5% COG
C514	2113743N50	100 PF 5% COG
C520	2113743L41	10000 PF 10%
C521	2113743L41	10000 PF 10%
C522	2113743L41	10000 PF 10%
C523	2113743L41	10000 PF 10%
C535	2113743L17	1000 PF 10%
CR3301	4802245J42	RING QUAD SOT-143 PKG
CR3302	4805129M96	DIODE SMBV1032
CR3303	4880154K03	SOT MMBD353 DUAL SCHKY
CR411**	4802245J47	SCHOTTKY BARRIER(RB471E)
CR412**	4802245J47	SCHOTTKY BARRIER(RB471E)
CR413**	4802245J47	SCHOTTKY BARRIER(RB471E) **Placed on PCB 8486062B12 only
CR411***	4802245J62	SCHOTTKY BARRIER(RB731U)
CR412***	4802245J62	SCHOTTKY BARRIER(RB731U)
CR413***	4802245J62	SCHOTTKY BARRIER(RB731U) ***Placed on PCB 8486062B14 only
CR440	4813833C02	DUAL 70V '5B' COMM CATH
CR501	4880107R01	RECTIFIER
CR503	4805729G49	LED RED/YEL
D3270	4862824C01	VARACTOR
D3301	4802081B58	DUAL SILCON (VARICAP)
D3302	4802081B58	DUAL SILCON (VARICAP)
D3521	4880973Z02	PIN DIODE
D3551	4880973Z02	PIN DIODE
D3701	4802233J09	TRIPLE SOT25-RH
D3702	4802233J09	TRIPLE SOT25-RH
* D3761	4862824C03	VARACTOR
D3821	4805649Q13	VCTR ISV 228
D3831	4805649Q13	VCTR ISV 228
D3832	4862824C01	VARACTOR
E400	2480640Z01	C/IND BK1005HM471 BEAD
E401	2480640Z01	C/IND BK1005HM471 BEAD
E402	2480640Z01	C/IND BK1005HM471 BEAD
E403	2480640Z01	C/IND BK1005HM471 BEAD
E404	2480640Z01	C/IND BK1005HM471 BEAD
E405	2480640Z01	C/IND BK1005HM471 BEAD
E406	2480640Z01	C/IND BK1005HM471 BEAD
E407	2480640Z01	C/IND BK1005HM471 BEAD
E408	2480640Z01	C/IND BK1005HM471 BEAD
E409	2480640Z01	C/IND BK1005HM471 BEAD
F501	6580542Z01	FUSE CHIP SMT TR/1608FF 3A
FL401	4870368G02	CLOCK OSC XTAL only GP360, GP380, GP680
H3501	2680499Z01	HEAT SPREADER
J3501	0180117S05	RF JACK ASSEMBLY
J3502	0280519Z02	NUT, ANTENNA
J400	0905505Y04	CONN ZIF 40Pin

Circuit Ref	Motorola Part No	Description
J403	0905505Y02	not in GP320 CONN ZIF MALE 20 PIN
L3200	2462587N68	CHIP IND 1000 NH 5%
L3202	2462587N68	CHIP IND 1000 NH 5%
L3221	2462587N68	CHIP IND 1000 NH 5%
L3270	2462587T15	IND CHIP 100NH 5% LOW PRO
L3271	2462587Q20	IND CHIP 2,200NH 20%
L3301	2462587T35	IND CHIP 12NH 5% LOW PRO
L3303	2462587T35	IND CHIP 12NH 5% LOW PRO
L3304	2462587T23	IND CHIP 470NH 5% LOW PRO
L3305	2462587T35	IND CHIP 12NH 5% LOW PRO
L3306	2462587T35	IND CHIP 12NH 5% LOW PRO
L3308	2462587T34	IND CHIP 10NH 5% LOW PRO
L3309	2462587N55	CHIP IND 150 NH 5%
L3312	2462587V28	CHIP IND 33 NH 5% 0805
L3501	2413926H09	IND CHIP 5.6 NH +/- 0.3NH
L3503	2462587V32	CHIP IND 68NH 5% 0805
L3504	2462587N51	CHIP IND 68 NH 5%
L3511	2462587N44	CHIP IND 18 NH 5%
L3512	2479990B01	AIR WOUND GREEN 11.03NH
L3513	2479990A02	AIR WOUND GREEN 7.66NH
L3515	2479990C03	AIR WOUND GREEN 13.85NH
L3518	2462587N48	CHIP IND 39 NH 5%
L3519	2484657R01	INDUCTOR BEAD CHIP
L3521	2479990A02	AIR WOUND GREEN 7.66NH
L3522	2479990E01	COIL AIR WOUND GREEN 23.75
L3523	2462587N68	CHIP IND 1000 NH 5%
L3531	2479990N01	AIR WOUND GREEN 43.67NH
L3532	2479990N01	AIR WOUND GREEN 43.67NH
L3538	2479990M01	AIR WOUND GREEN 30.54NH
L3551	2479990N01	AIR WOUND GREEN 43.67NH
L3552	2479990A02	AIR WOUND GREEN 7.66NH
L3701	2462587Q42	IND CHIP 390NH 10%
L3731	2462587Q20	IND CHIP 2,200NH 20%
L3801	2462587V34	CHIP IND 100NH 5% 0805
L3809	2462587V27	CHIP IND 27 NH 5% 0805
L3811	2462587V34	CHIP IND 100NH 5% 0805
L3812	2462587V34	CHIP IND 100NH 5% 0805
L3813	2462587Q47	IND CHIP 1000 NH 10%
L3816	2462587V34	CHIP IND 100NH 5% 0805
L3821	2462587N50	CHIP IND 56 NH 5%
L3822	2462587N49	CHIP IND 47 NH 5%
L3823	2462587N49	CHIP IND 47 NH 5%
L3824	2462587N68	CHIP IND 1000 NH 5%
L3825	2462587V34	CHIP IND 100NH 5%
L3826	2462587N68	CHIP IND 1000 NH 5%
L3831	2462587N50	CHIP IND 56 NH 5%
L3832	2462587N51	CHIP IND 68 NH 5%
L3833	2462587N50	CHIP IND 56 NH 5%
L3834	2462587N68	CHIP IND 1000 NH 5%
L400	2462587Q42	IND CHIP 390NH 10%
L401	2462587Q42	IND CHIP 390NH 10%
L410	2462587Q42	IND CHIP 390NH 10%
L411	2462587Q42	IND CHIP 390NH 10%
L505	2462587Q42	IND CHIP 390NH 10%
PB501	4080523Z01	SWITCH, TACT

Circuit Ref	Motorola Part No	Description
PB502	4080523Z01	SWITCH, TACT
PB503	4080523Z01	SWITCH, TACT not in GP320
PB504	4080523Z01	SWITCH, TACT
PB505	4080523Z01	SWITCH, TACT not in GP320
Q3200	4813827A07	TSTR NPN SML SIG MMBR941LT1
Q3201	4880214G02	TSTR MMBT3904
Q3202	4880214G02	TSTR MMBT3904
Q3270	4805218N63	RF TRANS SOT 323 BFQ67W
Q3301	4880214G02	TSTR MMBT3904
Q3302	4813827A07	TSTR NPN MMBR941LT1
Q3501	4802245J55	TSTR POWER FIELD EFFECT
Q3561	4813824A17	XSTR PNP40V .2A B=100-300
Q3721	4802245J50	TSTR DUAL NPN/PNP UMC5N
Q3801	4813827A07	TSTR NPN MMBR941LT1
Q400	4809579E18	MOSFET P-CHAN TP010IT
Q403	4880214G02	TSTR MMBT3904
Q405	4802245J54	UMG5N DIGITAL TRANSISTOR
Q410	4802245J54	UMG5N DIGITAL TRANSISTOR
Q416	4809579E18	MOSFET P-CHAN TP010IT only GP360, GP380, GP680
Q417	4802245J50	TSTR DUAL NPN/PNP UMC5N
Q502	5180159R01	DUAL TRANS NPNS
Q505	4880214G02	TSTR MMBT3904
R3200	0662057M54	150 5% 20X40
R3201	0662057M82	2200 5% 20X40
R3202	0662057M90	4700 5% 20X40
R3203	0662057M98	10K 5% 20X40
R3204	0662057M26	10 5% 20X40
R3205	0662057M74	1000 5% 20X40
R3206	0662057N23	100K 5% 20X40
R3207	0662057N13	39K 5% 20X40
R3208	0662057M50	100 5% 20X40
R3209	0662057M74	1000 5% 20X40
R3210	0662057M82	2200 5% 20X40
R3211	0662057M82	2200 5% 20X40
R3212	0662057M90	4700 5% 20X40
R3213	0662057M82	2200 5% 20X40
R3214	0662057M34	22 5% 20X 40
R3219	0662057M50	100 5% 20X40
R3220	0662057M90	4700 5% 20X40
R3221	0662057M50	100 5% 20X40
R3224	0662057M26	10 5% 20X40
R3225	0662057M74	1000 5% 20X40
R3226	0662057M26	10 5% 20X40
R3270	0662057M74	1000 5% 20X40
R3271	0662057M42	47 5% 20X40
R3272	0662057N15	47K 5% 20X40
R3273	0662057N15	47K 5% 20X40
R3274	0662057M83	2400 5% 20X40
R3275	0662057M74	1000 5% 20X40
R3276	0662057N30	200K 5% 20X40
R3303	0662057N23	100K 5% 20X40
R3304	0662057N23	100K 5% 20X40

Circuit Ref	Motorola Part No	Description
R3305	0662057N19	68K 5% 20X40
R3306	0662057M82	2200 5% 20X40
R3307	0662057N11	33K 5% 20X40
R3308	0662057M78	1500 5% 20X40
R3309	0662057M92	5600 5% 20X40
R3310	0662057M98	10K 5% 20X40
R3311	0662057M26	10 5% 20X40
R3312	0662057M38	33 5% 20X40
R3313	0662057M34	22 5% 20X 40
R3314	0662057M26	10 5% 20X40
R3315	0662057M62	330 5% 20X40
R3316	0662057M66	470 5% 20X40
R3317	0662057N23	100K 5% 20X40
R3318	0662057M66	470 5% 20X40
R3321	0662057M54	150 5% 20X40
R3322	0662057M58	220 5% 20X40
R3323	0662057M32	18 5% 20X40
R3324	0662057M58	220 5% 20X40
R3501	0662057M61	300 5% 20X40
R3502	0662057M32	18 5% 20X40
R3503	0662057M61	300 5% 20X40
R3505	0662057M62	330 5% 20X40
R3512	0662057A27	120 OHMS 5%
R3513	0662057A25	100 OHMS 5%
R3519	0680539Z01	POWER METAL STRIP
R3542	0662057M92	5600 5% 20X40
R3543	0662057M50	100 5% 20X40
R3544	0662057A25	100 OHMS 5%
R3545	0662057A25	100 OHMS 5%
R3546	0662057N11	33K 5% 20X40
R3547	0662057N01	12K 5% 20X40
R3548	0662057M95	7500 55 20X40
R3551	0662057M40	39 5% 20X40
R3561	0662057N01	12K 5% 20X40
R3562	0662057N11	33K 5% 20X40
R3563	0662057N33	270K 5% 20X40
R3564	0662057N35	330K 5% 20X40
R3569	0662057M92	5600 5% 20X40
R3570	0662057M98	10K 5% 20X40
R3571	0662057A27	120 OHMS 5%
R3572	0662057A27	120 OHMS 5%
R3573	0662057A27	120 OHMS 5%
R3701	0662057M50	100 5% 20X40
R3703	0662057M54	150 5% 20X40
R3704	0662057M54	150 5% 20X40
R3705	0662057N11	33K 5% 20X40
R3721	0662057M66	470 5% 20X40
R3722	0662057M74	1000 5% 20X40
R3723	0662057M50	100 5% 20X40
R3727	0662057N23	100K 5% 20X40
R3741	0662057M50	100 5% 20X40
R3751	0662057N30	200K 5% 20X40
R3752	0662057N35	330K 5% 20X40
R3761	0662057N15	47K 5% 20X40
R3802	0662057M50	100 5% 20X40
R3803	0662057M58	220 5% 20X40

Circuit Ref	Motorola Part No	Description
R3804	0662057M98	10K 5% 20X40
R3805	0662057N08	24K 5% 20X40
R3806	0662057M34	22 5% 20X 40
R3808	0662057M26	10 5% 20X40
R3811	0662057M50	100 5% 20X40
R3816	0662057M74	1000 5% 20X40
R3817	0662057M01	0 5% 20X40
R3821	0662057M58	220 5% 20X40
R3822	0662057M42	47 5% 20X40
R3823	0662057N11	33K 5% 20X40
R3824	0662057N07	22K 5% 20X40
R3825	0662057M38	33 5% 20X40
R3826	0662057M32	18 5% 20X40
R3828	0662057M50	100 5% 20X40
R3829	0662057M01	0 5% 20X40
R3831	0662057M98	10K 5% 20X40
R3832	0662057N01	12K 5% 20X40
R3833	0662057M58	220 5% 20X40
R3834	0662057M42	47 5% 20X40
R3835	0662057N15	47K 5% 20X40
R3836	0662057M98	10K 5% 20X40
R400	0662057N15	47K 5% 20X40
R401	0662057M01	0 5% 20X40
R405	0662057M01	0 5% 20X40
R406	0662057N20	75K 5% 20X40
R407	0662057N19	68K 5% 20X40
R409	0662057M98	10K 5% 20X40
R410	0662057N23	100K 5% 20X40
R411	0662057M98	10K 5% 20X40
R413	0662057M01	0 5% 20X40
R414	0662057V34	180K 1% 1/16W
R415	0662057V26	91K 1% 1/16W
R416	0662057N13	39K 5% 20X40
R418	0662057M01	0 5% 20X40
R419	0662057M67	0 5% 20X40
		only GP360, GP380, GP680
R420	0662057B46	10.0 MEG OHMS 5%
		only GP360, GP380, GP680
R421	0662057M81	2000 5% 20X40
R423	0662057N21	82K 5% 20X40
R424	0662057N12	36K 5% 20X40
R425	0662057N10	30K 5% 20X40
R426	0662057N35	330K 5% 20X40
		only GP360, GP380, GP680
R427	0662057M84	2700 5% 20X40
R428	0662057M10	2.2 5% 20X40
R429	0662057M98	10K 5% 20X40
R431	0662057N39	470K 5% 20X40
R432	0662057N16	51K 5% 20X40
R434	0662057M62	330 5% 20X40
R435	0662057M81	2000 5% 20X40
R436	0662057M01	0 5% 20X40
R445	0662057N08	24K 5% 20X40
R446	0662057N31	RES, CHIP 220K 5% 20X40
R447	0662057N51	RES, CHIP 1.5 MEG 5% 20X40
R448	0662057N33	270K 5% 20X40

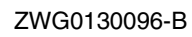
Circuit Ref	Motorola Part No	Description
R449	0662057N08	24K 5% 20X40
R450	0683962T45	68 5-1
R457	0662057M98	10K 5% 20X40
R460	0662057M90	4700 5% 20X40
R461	0662057M56	180 5% 20X40
		only GP360, GP380, GP680
R462	0662057M98	10K 5% 20X40
		only GP360, GP380, GP680
R463	0662057M61	300 5% 20X40
R471	0662057M92	5600 5% 20X40
R472	0662057M93	6200 5% 20X40
R473	0662057M26	10 5% 20X40
R475	0662057M01	0 5% 20X40
R476	0662057N08	24K 5% 20X40
R477	0662057M74	1000 5% 20X40
R478	0662057M98	10K 5% 20X40
R481	0662057N08	24K 5% 20X40
R492	0662057M01	0 5% 20X40
R498	0662057M98	10K 5% 20X40
		Placed on PCB 8486062B14 only
R499	0662057M98	10K 5% 20X40
		Placed on PCB 8486062B14 only
R501	0662057M70	680 5% 20X40
R502	0662057M56	180 5% 20X40
R505	0662057M98	10K 5% 20X40
R506	0662057N15	47K 5% 20X40
RT400	0680590Z01	THERMISTOR_33K
S501	4080710Z01	SWITCH (FREQUENCY)
		only GP340, GP640
S501	4080710Z02	SWITCH (FREQUENCY)
		only GP360, GP380, GP680
S502	1880619Z01	POTENTIOMETER, VOLUME
SH3201	2602023X08	SHIELD
SH3202	2686081B02	SHIELD
SH3203	2686081B03	SHIELD
SH3301	2686081B01	SHIELD
SH3302	2686081B05	SHIELD
SH3303	2686081B06	SHIELD
SH3501	2686081B03	SHIELD
SH3502	2686081B04	SHIELD
SH3701	2680511Z01	SHIELD SYNTHESIZER
SH3702	2680511Z01	SHIELD SYNTHESIZER
SH3801	2680513Z01	SHIELD VCO TOP
SH3802	2680514Z01	SHIELD VCO BOTTOM/LVZIF
SH400	2680505Z01	CONTROLLER TOP LEFT
SH401	2680506Z01	CONTROLLER TOP RIGHT
SH402	2680515Z01	CONTROLLER BOTTOM LEFT
SH403	2680516Z01	CONTROLLER BTM RIGHT
T3301	2580541Z01	BALUN TRANSFORMER
T3302	2580541Z01	BALUN TRANSFORMER
U3201	5102463J58	3.3V REG IN SOT23-5 PKG
U3220	5109632D83	IC LVZIF 2.2 H60G 48TQFP
U3501	5105109Z67	IC LDMOS DRIVER VHF/UHF
U3502	5185765B01	IC POWER CONTROL PASS 2.3
U3503	5185963A15	IC TEMP SENSOR 1M50C
U3701	5185963A27	IC FRACN AT25016 48 PIN GFP

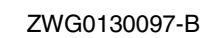
Circuit Ref	Motorola Part No	Description
U3711	5105739X05	IC 5V REGULATOR
U3801	5105750U54	IC VCO BUFFER
U400	5102463J40	REG 3.3V, LP2951CMM-3.3
U404	5185963A53	IC ASFIC CMP TQFP 48PIN PKG
U405	5102463J36	STATIC_RAM_32KX8
* U406	5102463J60	IC 512KX8 FLASH ROM
* U407	5102463J64	16KX8 SPI SERIAL EEPROM
U409	5102226J56	68HC11FLO_PASS5 TQFP
U410	5102463J57	REG 3.3V, ILC7062CM-33
		only GP360, GP380, GP680
U420	5102463J44	AUDIO AMPLIFIER TDA8547TS
VR432	4805656W08	ZENER QUAD
VR433	4805656W08	ZENER QUAD
VR434	4802245J51	ZENER DIODE; BZX284-C6V8"
VR439	4880140L15	10V ZENER
VR447	4802245J53	ZENER_DIODE; BZX284-C10
VR448	4802245J53	ZENER_DIODE; BZX284-C10
VR449	4802245J53	ZENER_DIODE; BZX284-C10
VR450	4802245J53	ZENER_DIODE; BZX284-C10
VR501	4813830A18	6.8V 5% 225MWMMBZ5235B_
VR506	4802245J51	ZENER DIODE; BZX284-C6V8
Y3200	9186153B01	XTAL FILTER, SMD 45.1MHz
Y3761	4802245J49	CRYSTL 16.8MHZ WITH CLIP
	8486062B12/ 8486062B14	PCB WARIS VHF PREFERRED

* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

VHF (136-174 MHz) Main Board Top Side





VHF (136-174 MHz) Main Board Bottom Side

9.0 VHF PCB 8486101B10 Parts List (GP1280)

Circuit Ref	Motorola Part No	Description
B501	0986237A01	CONN, CONTACT BATTERY
B503	3980502Z01	CONTACT, BACKUP B+
B504	3980501Z01	CONTACT, BACKUP B-
C3200	2113743N31	16.0 PF 5%
C3203	2113743N50	100 PF 5%
C3204	2113743L41	10000 PF 10%
C3205	2113928N01	0.1UF 10% 6.3
C3206	2113743L41	10000 PF 10%
C3207	2113743N10	2.2 PF +/-25PF
C3209	2311049A07	TANT 10% 1.0UF
C3210	2113743L17	1000 PF 10%
C3211	2311049A56	TAN CHIP A/P 4.7 20 10
C3212	2311049A07	TANT 10% 1.0UF
C3213	2311049A56	TAN CHIP A/P 4.7 20 10
C3214	2113928N01	CERAMIC CHIP 10.0UF
C3215	2113743N26	10.0 PF 5%
C3218	2311049A56	TAN CHIP A/P 4.7 20 10
C3219	2113928N01	CERAMIC CHIP 10.0UF
C3220	2113743N26	10.0 PF 5%
C3221	2113743L41	10000 PF 10%
C3222	2113928N01	CERAMIC CHIP 10.0UF
C3223	2113928N01	0.1UF 10% 6.3
C3224	2113928N01	0.1UF 10% 6.3
C3225	2113928N01	0.1UF 10% 6.3
C3226	2113928N01	0.1UF 10% 6.3
C3227	2113743L41	10000 PF 10%
C3228	2113743L41	10000 PF 10%
C3229	2113743N50	100 PF 5%
C3230	2113740F51	REEL CL1 +/-30 100
C3231	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3232	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3233	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3234	2180478Z20	MONOLITH CERAMIC (1.0UF)
C3235	2113743A23	.220UF 10%
C3238	2113743A24	.330 UF 10% 16V
C3239	2113743E07	.022UF
C3240	2113743A23	.220UF 10%
C3241	2113743L19	1200 PF 10%
C3242	2109720D14	LOW DIST 0.1UF
C3243	2113743E07	.022UF
C3244	2113743L41	10000 PF 10%
C3270	2113743E07	.022UF
C3271	2113743L05	330 PF 10%
C3272	2113743N18	4.7 PF +/-25PF
C3273	2113743N26	10.0 PF 5%
C3274	2113743N38	33.0 PF 5%
C3275	2113743N44	56.0 PF 5%

Circuit Ref	Motorola Part No	Description
C3276	2113743N42	47.0 PF 5%
C3277	2113743N48	82.0 PF 5%
C3278	2113743E07	.022UF
C3279	2311049A40	GLOBAL TANT 10% 2.2 UF
C3280	2113743L41	10000 PF 10%
C3301	2113743N20	5.6 PF +/-5PF
C3302	2113743N54	150 PF 5%
C3303	2113743N30	15.0PF 5%
C3304	2113743N54	150 PF 5%
C3306	2113928N01	0.1UF 10% 6.3
C3307	2113743N50	100 PF 5%
C3308	2113743L05	330 PF 10%
C3309	2113928N01	0.1UF 10% 6.3
C3311	2113743N54	150 PF 5%
C3312	2113743N31	16.0 PF 5%
C3313	2113743N54	150 PF 5%
C3315	2113743N26	10.0 PF 5%
C3316	2113743N14	3.3 PF +/-25PF
C3317	2113743N40	39.0 PF 5%
C3318	2113743M08	22000PF +80-20% Y5V
C3320	2113743N48	82.0 PF 5%
C3321	2113743L05	330 PF 10%
C3322	2113743N50	100 PF 5%
C3323	2113743N50	100 PF 5%
C3324	2113743N38	33.0 PF 5%
C3325	2113743L17	1000 PF 10%
C3327	2113743L05	330 PF 10%
C3329	2113743L05	330 PF 10%
C3330	2113743N50	100 PF 5%
C3331	2113743N50	100 PF 5%
C3332	2113743N40	39.0 PF 5%
C3334	2113743N33	20.0 PF 5%
C3335	2113743N34	22.0 PF 5%
C3336	2311049A18	CAP. TANT 10% 10UF
C3337	2113743M08	22000PF +80-20% Y5V
C3338	2113743L09	470 PF 10%
C3339	2113743N26	10.0 PF 5%
C3501	2113743L05	330 PF 10%
C3502	2113743N38	33.0 PF 5%
C3503	2113743N38	33.0 PF 5%
C3504	2113743M08	22000PF +80-20% Y5V
C3505	2113743N38	33.0 PF 5%
C3508	2113743M08	22000PF +80-20% Y5V
C3509	2113743L05	330 PF 10%
C3512	2113740F43	REEL CL1 +/-30 47
C3513	2113740F38	REEL CL1 +/-30 30
C3514	2113740F67	CL1 +/-30 470 5%
C3515	2113743L29	3300PF 10%
C3516	2311049A08	KEMET CAPS
C3517	2113740F51	REEL CL1 +/-30 100
C3518	2113740F63	CL1 +/-30 330 5%

Circuit Ref	Motorola Part No	Description
C3519	2113740F35	REEL CL1 +/-30 22
C3521	2111078B51	RF 220 5 NPO 100V
C3523	2111078B44	RF 120 5 NPO 100V
C3524	2113740F33	REEL CL1 +/-30 18
C3525	2113740F27	REEL CL1 +/-30 10
C3526	2113743M08	22000PF +80-20% Y5V
C3528	2113740F26	REEL CL1 +/-30 9.1
C3531	2113740F34	REEL CL1 +/-30 20
C3532	2113740F47	REEL CL1 +/-30 68
C3533	2113740F24	REEL CL1 +/-30 7.5
C3534	2113740F19	CHIP CAP, CER 4.7PF
C3535	2113740F37	REEL CL1 +/-30 27
C3536	2113740F31	REEL CL1 +/-30 15
C3537	2113740F33	REEL CL1 +/-30 18
C3539	2113740F21	REEL CL1 +/-30 5.6
C3541	2113743M08	22000PF +80-20% Y5V
C3542	2113743L05	330 PF 10%
C3543	2113743M08	22000PF +80-20% Y5V
C3544	2113743L05	330 PF 10%
C3546	2113743L05	330 PF 10%
C3547	2113743M08	22000PF +80-20% Y5V
C3550	2113743N23	7.5 PF +/-5PF
C3551	2113743N46	68.0 PF 5%
C3552	2113743N44	56.0 PF 5%
C3560	2311049A07	TANT 10% 1.0UF
C3561	2113743M08	22000PF +80-20% Y5V
C3562	2113743L29	3300PF 10%
C3563	2113743L29	3300PF 10%
C3564	2113743L01	220 PF 10%
C3565	2113743E07	.022UF
C3566	2113743N50	100 PF 5%
C3567	2113743L05	330 PF 10%
C3568	2113743L29	3300PF 10%
C3569	2113743M08	22000PF +80-20% Y5V
C3570	2113743L05	330 PF 10%
C3571	2113743L09	470 PF 10%
C3701	2113743L41	10000 PF 10%
C3702	2113743L41	10000 PF 10%
C3703	2113743L41	10000 PF 10%
C3704	2113743L41	10000 PF 10%
C3705	2113743E20	CHIP. 10 UF 10%
C3706	2311049J11	CAPACITOR TANT 10% 4.7UF
C3707	2113743N34	22.0 PF 5%
C3708	2113743M24	100000 PF +80-20% Y5V
C3709	2113743M24	100000 PF +80-20% Y5V
C3710	2104993J02	MONOLITH CERAMIC (2.2UF)
C3711	2311049A69	TAN CHIP 10.0 UF 20% 6.3V
C3712	2113743M24	100000 PF +80-20% Y5V
C3713	2311049A09	TANT 2.2 UF 10%
C3714	2311049J11	CAPACITOR TANT 10% 4.7UF
C3715	2113743L09	470 PF 10%

Circuit Ref	Motorola Part No	Description
C3721	2113743E20	CHIP. 10 UF 10%
C3722	2113743E20	CHIP. 10 UF 10%
C3724	2311049A08	KEMET CAPS
C3726	2113743N24	8.2 PF +/-5PF
C3727	2113743N50	100 PF 5%
C3731	2113743L41	10000 PF 10%
C3732	2113743L41	10000 PF 10%
C3733	2104993J02	MONOLITH CERAMIC (2.2UF)
C3734	2113743L41	10000 PF 10%
C3742	2113743L01	220 PF 10%
C3743	2113743L01	220 PF 10%
C3744	2113743L01	220 PF 10%
C3745	2113743L01	220 PF 10%
C3746	2113743L01	220 PF 10%
C3752	2113743L17	1000 PF 10%
C3753	2311049A56	TAN CHIP A/P 4.7 20 10
C3754	2113743M24	100000 PF +80-20% Y5V
C3755	2104993J02	MONOLITH CERAMIC (2.2UF)
* C3761	2113743N44	56.0 PF 5%
* C3762	2113740F63	330 CL1 +/-30 5%
* C3763	2113743N08	1.6 PF +/-25PF
C3801	2113743N18	4.7 PF +/-25PF
C3803	2113743L17	1000 PF 10%
C3804	2113743E20	CHIP. 10 UF 10%
C3805	2113743N18	4.7 PF +/-25PF
C3806	2113743N50	100 PF 5%
C3808	2113743N30	15.0PF 5%
C3809	2113743N36	27.0 PF 5%
C3811	2113743M24	100000 PF +80-20% Y5V
C3812	2113743M24	100000 PF +80-20% Y5V
C3813	2113743L41	10000 PF 10%
C3815	2113743L17	1000 PF 10%
C3816	2113743N22	6.8 PF +/-5PF
C3818	2113743E07	.022UF
C3821	2113743L41	10000 PF 10%
C3822	2113743L17	1000 PF 10%
C3823	2113743L41	10000 PF 10%
C3824	2113743N44	56.0 PF 5%
C3825	2113743N30	15.0PF 5%
C3826	2113743N18	4.7 PF +/-25PF
C3827	2113743E07	.022UF
C3828	2109720D01	LOW DIS T .01UF
C3829	2109720D01	LOW DIS T .01UF
C3830	2113743N46	68.0 PF 5%
C3832	2113743L17	1000 PF 10%
C3833	2113743N18	4.7 PF +/-25PF
C3834	2113743N44	56.0 PF 5%
C3835	2113743N22	6.8 PF +/-5PF
C3836	2113743N30	15.0PF 5%
C3842	2113743L17	1000 PF 10%
C400	2113743L41	10000 PF 10%

Circuit Ref	Motorola Part No	Description	Circuit Ref	Motorola Part No	Description	Circuit Ref	Motorola Part No	Description	Circuit Ref	Motorola Part No	Description
C4001	2113743N50	100 PF 5%	C466	2113743N50	100 PF 5%	CR3301	4802245J42	RING QUAD SOT-143 PKG	L3519	2484657R01	INDUCTOR BEAD CHIP
C4002	2113743N50	100 PF 5%	C467	2113928N01	0.1UF 10% 6.3	CR3302	4805129M96	DIODE DUAL	L3521	2479990A02	AIR WND COIL/GRN 7.66NH
C4003	2113743N50	100 PF 5%	C471	2113743L09	470 PF 10%	CR3303	4880154K03	SOT MMBD353 DUAL SCHTKY	L3522	2479990E01	COIL AIR WND/GRN 23.75
C401	2113743M24	100000 PF +80-20% Y5V	C472	2113743L09	470 PF 10%	CR411	4802245J47	SCHOTTKY BARRIER(RB471E)	L3523	2462587N68	CHIP IND 1000 NH 5%
C402	2113743M24	100000 PF +80-20% Y5V	C473	2113743L09	470 PF 10%			Placed on PCB 8486101B09 only	L3531	2479990N01	AIR WND COIL/GRN 43.67NH
C4020	2113743L17	1000 PF 10%	C474	2113743L41	10000 PF 10%	CR412	4802245J62	DIODE SCHOTTKY, RB731U	L3532	2479990N01	AIR WND COIL/GRN 43.67NH
C4021	2113743L17	1000 PF 10%	C475	2113743H14	10.0 UF 16V +80-20%	CR413	4802245J62	DIODE SCHOTTKY, RB731U	L3538	2479990M01	AIR WND COIL/GRN 30.54NH
C403	2113928D08	CERAMIC CHIP 10.0UF	C476	2113928D08	CERAMIC CHIP 10.0UF	CR440	4813833C02	DUAL 70V '5B' COMM CATH	L3551	2479990N01	AIR WND COIL/GRN 43.67NH
C407	2113928N01	0.1UF 10% 6.3	C477	2113743L17	1000 PF 10%	CR501	4880107R01	RECTIFIER	L3552	2479990A02	AIR WND COIL/GRN 7.66NH
C408	2113743N50	100 PF 5%	C478	2113743L17	1000 PF 10%	CR503	4805729G49	DIODE RED/YEL	L3701	2462587Q42	IND CHIP 390NH 10%
C409	2113743M24	100000 PF +80-20% Y5V	C479	2113928N01	0.1UF 10% 6.3	CR700	4802245J47	SCHOTTKY BARRIER(RB471E)	L3731	2462587Q20	IND CHIP 2,200NH 20%
C410	2113928N01	0.1UF 10% 6.3	C480	2113928D08	CERAMIC CHIP 10.0UF	D3270	4862824C01	DIODE VARACTOR	L3801	2462587V34	CHIP IND 100NH 5% 0805
C411	2113743M24	100000 PF +80-20% Y5V	C481	2113928N01	0.1UF 10% 6.3	D3301	4802081B58	DUAL SILCON (VARICAP)	L3809	2462587V27	CHIP IND 27 NH 5% 0805
C414	2113743M24	100000 PF +80-20% Y5V	C482	2113928N01	0.1UF 10% 6.3	D3302	4802081B58	DUAL SILCON (VARICAP)	L3811	2462587V34	CHIP IND 100NH 5% 0805
C415	2109720D01	LOW DIS T .01UF	C483	2113743L09	470 PF 10%	D3521	4880973Z02	PIN DIODE	L3812	2462587V34	CHIP IND 100NH 5% 0805
C416	2113928N01	0.1UF 10% 6.3	C484	2113743L09	470 PF 10%	D3551	4880973Z02	PIN DIODE	L3813	2462587Q47	IND CHIP 1000 NH 10%
C419	2113743L41	10000 PF 10%	C490	2113743L09	470 PF 10%	D3701	4802233J09	DIODE TRIPLE SOT25-RH	L3816	2462587V34	CHIP IND 100NH 5% 0805
C420	2113743L41	10000 PF 10%	C491	2113743L09	470 PF 10%	D3702	4802233J09	DIODE TRIPLE SOT25-RH	L3821	2462587N50	CHIP IND 56 NH 5%
C421	2113928N01	0.1UF 10% 6.3	C492	2113743L09	470 PF 10%	* D3761	4862824C03	DIODE VARACTOR	L3822	2462587N49	CHIP IND 47 NH 5%
C422	2113743M24	100000 PF +80-20% Y5V	C493	2113743N50	100 PF 5%	D3821	4805649Q13	DIODE VCTR ISV 228	L3823	2462587N49	CHIP IND 47 NH 5%
C423	2113743N50	100 PF 5%	C494	2113743N50	100 PF 5%	D3831	4805649Q13	DIODE VCTR ISV 228	L3824	2462587N68	CHIP IND 1000 NH 5%
C424	2311049A59	TANT CHIP A/P 10UF 10% 6V	C495	2113743L09	470 PF 10%	D3832	4862824C01	DIODE VARACTOR	L3825	2462587V34	CHIP IND 100NH 5% 0805
C425	2113743M24	100000 PF +80-20% Y5V	C496	2113743L09	470 PF 10%	E400	2480640Z01	C/IND BK1005HM471 BEAD	L3826	2462587N68	CHIP IND 1000 NH 5%
C426	2113743N50	100 PF 5%	C497	2113743L09	470 PF 10%	F501	6580542Z01	FUSE SMT TR/1608FF 3A	L3831	2462587N50	CHIP IND 56 NH 5%
C427	2113743N50	100 PF 5%	C502	2311049A05	TANT 10% 0.47UF	FL401	4870368G02	REFLOW CLOCK OSC XTAL	L3832	2462587N51	CHIP IND 68 NH 5%
C428	2113743M24	100000 PF +80-20% Y5V	C503	2113743N50	100 PF 5%	H3501	2680499Z01	HEAT SPREADER	L3833	2462587N50	CHIP IND 56 NH 5%
C429	2113743M24	100000 PF +80-20% Y5V	C505	2113743N50	100 PF 5%	J3501	0180117S05	RF JACK ASSEMBLY	L3834	2462587N68	CHIP IND 1000 NH 5%
C430	2113928N01	0.1UF 10% 6.3	C511	2113743N50	100 PF 5%	J3502	0280519Z02	NUT, ANTENNA	L400	2462587Q42	IND CHIP 390NH 10%
C431	2113743N50	100 PF 5%	C512	2113743N50	100 PF 5%	J400	0905505Y04	CONN ZIF HORIZONTAL	L401	2462587Q42	IND CHIP 390NH 10%
C433	2113743L41	10000 PF 10%	C513	2113743N50	100 PF 5%	J403	0905505Y02	CONN MALE 20 PIN ZIF	L410	2462587Q42	IND CHIP 390NH 10%
C434	2113743M24	100000 PF +80-20% Y5V	C514	2113743N50	100 PF 5%	L3200	2462587N68	CHIP IND 1000 NH 5%	L411	2462587Q42	IND CHIP 390NH 10%
C435	2113743M24	100000 PF +80-20% Y5V	C520	2113743L41	10000 PF 10%	L3202	2462587N68	CHIP IND 1000 NH 5%	L505	2462587Q42	IND CHIP 390NH 10%
C436	2113743N34	22.0 PF 5%	C521	2113743L41	10000 PF 10%	L3221	2462587N68	CHIP IND 1000 NH 5%	M701	7585651Z01	PAD, FLEXIBLE
C437	2113743N34	22.0 PF 5%	C522	2113743L41	10000 PF 10%	L3270	2462587T15	IND 100NH 5% LOW PRO	M702	7585651Z01	PAD, FLEXIBLE
C440	2113743G26	4.7UF 16V + 80-20%	C523	2113743L41	10000 PF 10%	L3271	2462587Q20	IND CHIP 2,200NH 20%	M703	7585651Z01	PAD, FLEXIBLE
C441	2113743L09	470 PF 10%	C535	2113743L17	1000 PF 10%	L3301	2462587T35	IND CHIP 12NH 5% LOW PRO	M704	7585651Z01	PAD, FLEXIBLE
C442	2113743E20	10 UF 10%	C701	2180478Z20	MONOLITHIC CER (1.0UF)	L3303	2462587T35	IND CHIP 12NH 5% LOW PRO	M705	7585651Z01	PAD, FLEXIBLE
C443	2113928N01	CERAMIC CHIP 10.0UF	C702	2113928N01	0.1UF 10% 6.3	L3304	2462587T23	IND CHIP 470NH 5%LOW PRO	M706	7585651Z01	PAD, FLEXIBLE
C444	2113743N50	100 PF 5%	C703	2113743N50	100 PF 5%	L3305	2462587T35	IND CHIP 12NH 5% LOW PRO	PB501	4080523Z01	SWITCH, TACT
C445	2113743L09	470 PF 10%	C704	2113928N01	0.1UF 10% 6.3	L3306	2462587T35	IND CHIP 12NH 5% LOW PRO	PB502	4080523Z01	SWITCH, TACT
C446	2113743L09	470 PF 10%	C705	2113928N01	0.1UF 10% 6.3	L3308	2462587T34	IND CHIP 10NH 5% LOW PRO	PB503	4080523Z01	SWITCH, TACT
C447	2113928N01	CERAMIC CHIP 10.0UF	C707	2113928N01	0.1UF 10% 6.3	L3309	2462587N55	CHIP IND 150 NH 5%	PB504	4080523Z01	SWITCH, TACT
C448	2113928N01	CERAMIC CHIP 10.0UF	C708	2113928N01	0.1UF 10% 6.3	L3312	2462587V28	CHIP IND 33 NH 5% 0805	PB505	4080523Z01	SWITCH, TACT
C449	2113743N50	100 PF 5%	C709	2113743L17	1000 PF 10%	L3501	2413926H09	IND CHIP 5.6 NH +/- 0.3NH	Q3200	4813827A07	NPNSML SIG MMBR941LT1 7Y
C451	2113743M08	22000PF +80-20% Y5V	C711	2113743L41	10000 PF 10%	L3503	2462587V32	CHIP IND 68NH 5% 0805	Q3201	4880214G02	TSTR MMBT3904
C452	2113743G26	4.7UF 16V + 80-20%	C713	2113928N01	0.1UF 10% 6.3	L3504	2462587N51	CHIP IND 68 NH 5%	Q3202	4880214G02	TSTR MMBT3904
C453	2113743N50	100 PF 5%	C714	2113928N01	0.1UF 10% 6.3	L3511	2462587N44	CHIP IND 18 NH 5%	Q3270	4805218N63	RF TRANS SOT 323 Bfq67W
C456	2113743N50	100 PF 5%	C715	2113928N01	0.1UF 10% 6.3	L3512	2479990B01	AIR WND COIL/GRN 11.03NH	Q3301	4880214G02	TSTR MMBT3904
C458	2113743N50	100 PF 5%	C717	2113928N01	0.1UF 10% 6.3	L3513	2479990A02	AIR WND COIL/GRN 7.66NH	Q3302	4813827A07	NPNSML SIG MMBR941LT1 7Y
C459	2113743N50	100 PF 5%	C718	2113743L17	1000 PF 10%	L3515	2479990C03	AIR WND COIL/GRN 13.85NH	Q3501	4802245J55	POWER FIELD EFFECT
C463	2113743N50	100 PF 5%	C719	2113928N01	0.1UF 10% 6.3	L3518	2462587N48	CHIP IND 39 NH 5%	Q3561	4813824A17	XSTR PNP40V .2A B=100-300

Circuit Ref	Motorola Part No	Description
Q3721	4802245J50	DUAL NPN/PNP UMC5N
Q3801	4813827A07	NPNSML SIG MMBR941LT1 7Y
Q400	4809579E18	MOSFET P-CHAN TP010IT
Q403	4880214G02	TSTR MMBT3904
Q405	4802245J54	UMG5N DIGITAL TRANSISTOR
Q410	4802245J54	UMG5N DIGITAL TRANSISTOR
Q416	4809579E18	MOSFET P-CHAN TP010IT
Q417	4802245J50	DUAL NPN/PNP UMC5N
Q502	5180159R01	DUAL TRANS NPNS
Q505	4880214G02	TSTR MMBT3904
R3200	0662057M54	150 5% 20X40
R3201	0662057M82	2200 5% 20X40
R3202	0662057M90	4700 5% 20X40
R3203	0662057M98	10K 5% 20X40
R3204	0662057M26	10 5% 20X40
R3205	0662057M74	1000 5% 20X40
R3206	0662057N23	100K 5% 20X40
R3207	0662057N13	39K 5% 20X40
R3208	0662057M50	100 5% 20X40
R3209	0662057M74	1000 5% 20X40
R3210	0662057M82	2200 5% 20X40
R3211	0662057M82	2200 5% 20X40
R3212	0662057M90	4700 5% 20X40
R3213	0662057M82	2200 5% 20X40
R3214	0662057M34	22 5% 20X 40
R3219	0662057M50	100 5% 20X40
R3220	0662057M90	4700 5% 20X40
R3221	0662057M50	100 5% 20X40
R3224	0662057M26	10 5% 20X40
R3225	0662057M74	1000 5% 20X40
R3226	0662057M26	10 5% 20X40
R3270	0662057M74	1000 5% 20X40
R3271	0662057M42	47 5% 20X40
R3272	0662057N15	47K 5% 20X40
R3273	0662057N15	47K 5% 20X40
R3274	0662057M83	2400 5% 20X40
R3275	0662057M74	1000 5% 20X40
R3276	0662057N30	200K 5% 20X40
R3303	0662057N23	100K 5% 20X40
R3304	0662057N23	100K 5% 20X40
R3305	0662057N19	68K 5% 20X40
R3306	0662057M82	2200 5% 20X40
R3307	0662057N11	33K 5% 20X40
R3308	0662057M78	1500 5% 20X40
R3309	0662057M92	5600 5% 20X40
R3310	0662057M98	10K 5% 20X40
R3311	0662057M26	10 5% 20X40
R3312	0662057M38	33 5% 20X40
R3313	0662057M34	22 5% 20X 40
R3314	0662057M26	10 5% 20X40
R3315	0662057M62	330 5% 20X40

Circuit Ref	Motorola Part No	Description
R3316	0662057M66	470 5% 20X40
R3317	0662057N23	100K 5% 20X40
R3318	0662057M66	470 5% 20X40
R3321	0662057M54	150 5% 20X40
R3322	0662057M58	220 5% 20X40
R3323	0662057M32	18 5% 20X40
R3324	0662057M58	220 5% 20X40
R3501	0662057M61	300 5% 20X40
R3502	0662057M32	18 5% 20X40
R3503	0662057M61	300 5% 20X40
R3505	0662057M62	330 5% 20X40
R3512	0662057A27	120 OHMS 5%
R3513	0662057A25	100 OHMS 5%
R3519	0680539Z01	PWR METAL STRIP RES
R3542	0662057M92	5600 5% 20X40
R3543	0662057M50	100 5% 20X40
R3544	0662057A25	100 OHMS 5%
R3545	0662057A25	100 OHMS 5%
R3546	0662057N11	33K 5% 20X40
R3547	0662057N01	12K 5% 20X40
R3548	0662057M95	7500 55 20X40
R3551	0662057M40	39 5% 20X40
R3561	0662057N01	12K 5% 20X40
R3562	0662057N11	33K 5% 20X40
R3563	0662057N33	270K 5% 20X40
R3564	0662057N35	330K 5% 20X40
R3569	0662057M92	5600 5% 20X40
R3570	0662057M98	10K 5% 20X40
R3571	0662057A27	120 OHMS 5%
R3572	0662057A27	120 OHMS 5%
R3573	0662057A27	120 OHMS 5%
R3701	0662057M50	100 5% 20X40
R3703	0662057M54	150 5% 20X40
R3704	0662057M54	150 5% 20X40
R3705	0662057N11	33K 5% 20X40
R3721	0662057M66	470 5% 20X40
R3722	0662057M74	1000 5% 20X40
R3723	0662057M50	100 5% 20X40
R3727	0662057N23	100K 5% 20X40
R3741	0662057M50	100 5% 20X40
R3751	0662057N30	200K 5% 20X40
R3752	0662057N35	330K 5% 20X40
R3761	0662057N15	47K 5% 20X40
R3802	0662057M50	100 5% 20X40
R3803	0662057M58	220 5% 20X40
R3804	0662057M98	10K 5% 20X40
R3805	0662057N08	24K 5% 20X40
R3806	0662057M34	22 5% 20X 40
R3808	0662057M26	10 5% 20X40
R3811	0662057M50	100 5% 20X40
R3816	0662057M74	1000 5% 20X40

Circuit Ref	Motorola Part No	Description
R3817	0662057M01	0 5% 20X40
R3821	0662057M58	220 5% 20X40
R3822	0662057M42	47 5% 20X40
R3823	0662057N11	33K 5% 20X40
R3824	0662057N07	22K 5% 20X40
R3825	0662057M38	33 5% 20X40
R3826	0662057M32	18 5% 20X40
R3828	0662057M50	100 5% 20X40
R3829	0662057M01	0 5% 20X40
R3831	0662057M98	10K 5% 20X40
R3832	0662057N01	12K 5% 20X40
R3833	0662057M58	220 5% 20X40
R3834	0662057M42	47 5% 20X40
R3835	0662057N15	47K 5% 20X40
R3836	0662057M98	10K 5% 20X40
R400	0662057N15	47K 5% 20X40
R4001	0662057M74	1000 5% 20X40
R4002	0662057M74	1000 5% 20X40
R4003	0662057M74	1000 5% 20X40
R4004	0662057M74	1000 5% 20X40
R4005	0662057M74	1000 5% 20X40
R4006	0662057M74	1000 5% 20X40
R4007	0662057M74	1000 5% 20X40
R4008	0662057M74	1000 5% 20X40
R4009	0662057M74	1000 5% 20X40
R401	0662057M01	0 5% 20X40
R405	0662057M01	0 5% 20X40
R406	0662057N20	75K 5% 20X40
R407	0662057N19	68K 5% 20X40
R409	0662057M98	10K 5% 20X40
R410	0662057N23	100K 5% 20X40
R411	0662057M98	10K 5% 20X40
R413	0662057M01	0 5% 20X40
R414	0662057V34	180K 1% 1/16W
R415	0662057V26	91K 1% 1/16W
R416	0662057N13	39K 5% 20X40
R418	0662057M01	0 5% 20X40
R419	0662057M67	0 5% 20X40
R420	0662057B46	10.0 MEG OHMS 5%
R421	0662057M81	2000 5% 20X40
R423	0662057N21	82K 5% 20X40
R424	0662057N12	36K 5% 20X40
R425	0662057N10	30K 5% 20X40
R426	0662057N35	330K 5% 20X40
R427	0662057M84	2700 5% 20X40
R428	0662057M10	2.2 5% 20X40
R429	0662057M98	10K 5% 20X40
R431	0662057N39	470K 5% 20X40
R432	0662057N16	51K 5% 20X40
R434	0662057M62	330 5% 20X40
R435	0662057M81	2000 5% 20X40

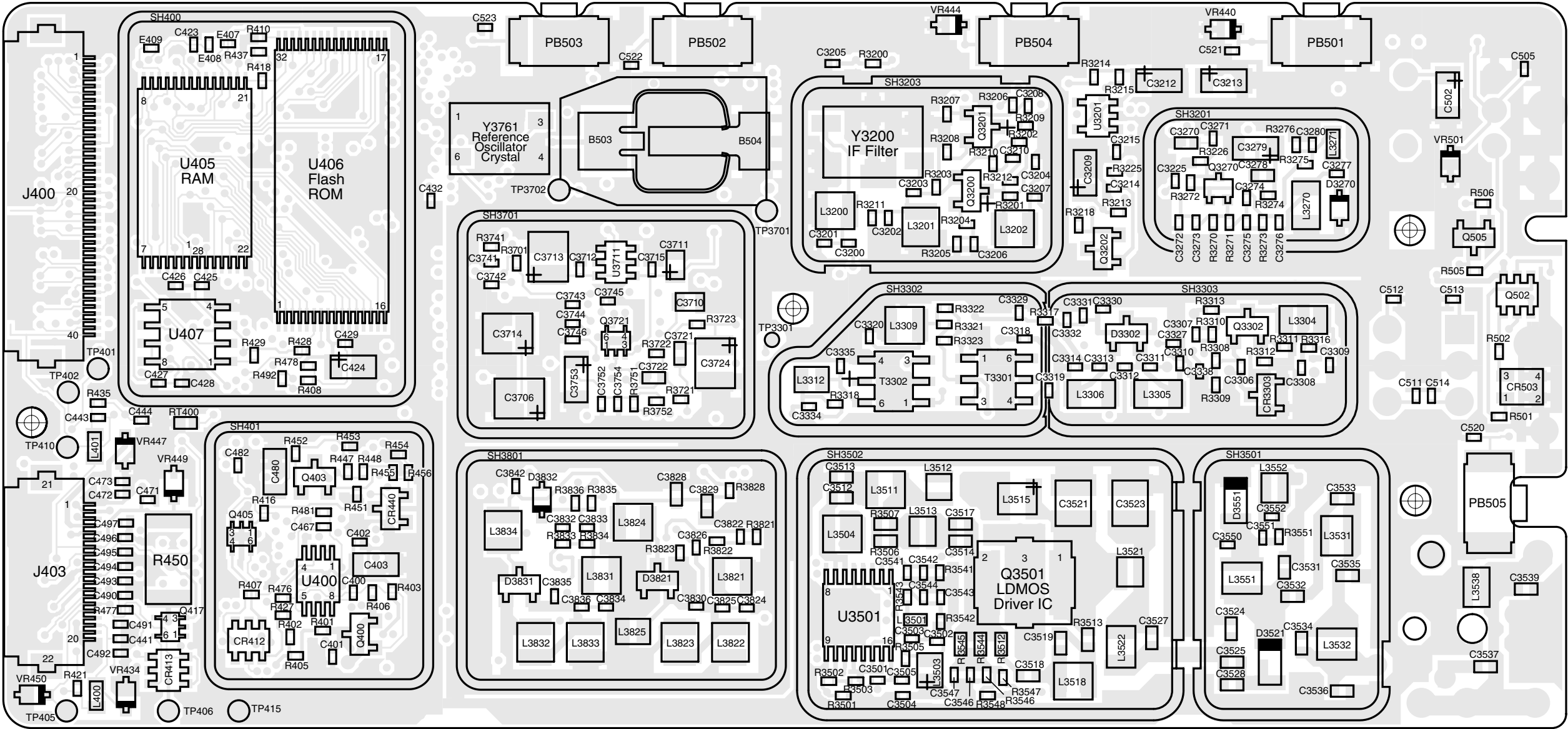
Circuit Ref	Motorola Part No	Description
R436	0662057M01	0 5% 20X40
R445	0662057N08	24K 5% 20X40
R446	0662057N31	220K 5% 20X40
R447	0662057N51	1.5 MEG 5% 20X40
R448	0662057N33	270K 5% 20X40
R449	0662057N08	24K 5% 20X40
R450	0683962T45	68 5-1
R457	0662057M98	10K 5% 20X40
R460	0662057M90	4700 5% 20X40
R461	0662057M56	180 5% 20X40
R462	0662057M98	10K 5% 20X40
R463	0662057M61	300 5% 20X40
R471	0662057M92	5600 5% 20X40
R472	0662057M93	6200 5% 20X40
R473	0662057M26	10 5% 20X40
R475	0662057M01	0 5% 20X40
R476	0662057N08	24K 5% 20X40
R477	0662057M74	1000 5% 20X40
R478	0662057M98	10K 5% 20X40
R481	0662057N08	24K 5% 20X40
R492	0662057M01	0 5% 20X40
R498	0662057M98	10K 5% 20X40
		Placed not on PCB 8486101B09
R499	0662057M98	10K 5% 20X40
R501	0662057M70	680 5% 20X40
R502	0662057M56	180 5% 20X40
R505	0662057M98	10K 5% 20X40
R506	0662057N15	47K 5% 20X40
R701	0662057N05	18K 5% 20X40
R702	0662057N05	18K 5% 20X40
R703	0662057M74	1000 5% 20X40
R704	0662057N13	39K 5% 20X40
R705	0662057N13	39K 5% 20X40
R706	0662057N17	56K 5% 20X40
R707	0662057M91	5100 5% 20X40
R708	0662057N41	560K 5% 20X40
R709	0662057N47	1.0 MEG 5% 20X40
R710	0662057N39	470K 5% 20X40
R716	0662057N01	12K 5% 20X40
R717	0662057M82	2200 5% 20X40
RT400	0680590Z01	THERMISTOR 33K
S501	4080710Z02	SWITCH (FREQUENCY)
S502	1880619Z01	POTENTIOMETER, VOLUME
SH3201	2602023X08	SHIELD
SH3202	2686081B02	SHIELD
SH3203	2686081B03	SHIELD
SH3301	2686081B01	SHIELD
SH3302	2686081B05	SHIELD
SH3303	2686081B06	SHIELD
SH3501	2686081B03	SHIELD
SH3502	2686081B04	SHIELD

Circuit Ref	Motorola Part No	Description
SH3701	2680511Z01	SHIELD SYNTHESIZER
SH3702	2680511Z01	SHIELD SYNTHESIZER
SH3801	2680513Z01	SHIELD VCO TOP
SH3802	2680514Z01	SHIELD VCO BOTTOM/LVZIF
SH400	2680505Z01	CTRL TOP LEFT
SH401	2680506Z01	CTRL TOP RIGHT
SH402	2680515Z01	CTRL BOTTOM LEFT
SH403	2680516Z01	CTRL BTM RIGHT
SH701	2680677Z01	(VOICE STORAGE BOTTOM)
T3301	2580541Z01	BALUN TRANSFORMER
T3302	2580541Z01	BALUN TRANSFORMER
U3201	5102463J58	3.3V REG IN SOT23-5 PKG
U3220	5109632D83	LVZIF 2.2 H60G 48TQFP
U3501	5105109Z67	IC LDMOS DRIVER VHF/UHF
U3502	5185765B01	IC PWR CONTROL PASS 2.3
U3503	5185963A15	IC TEMP SENSOR 1M50C
U3701	5185963A27	IC AT25016 48 PIN GFP
U3711	5105739X05	IC SOT 5V HI-PRECISION REG
U3801	5105750U54	IC PKG DIE VCO BUFFER
U400	5102463J40	REG 3.3V, LP2951CMM-3.3
U404	5185963A53	IC ASFIC CMP TQFP 48 PIN
U405	5102463J36	STATIC_RAM_32KX8
* U406	5102463J60	512X8 FLASH (AT49LV040)
* U407	5102463J64	16KX8 SPI SERIAL EEPROM
U409	5102226J56	68HC11FLO_PASS5 TQFP
U410	5102463J57	REG 3.3V, ILC7062CM-33
U411	4802245J54	UMG5N DIGITAL TRANSISTOR
		Placed on PCB 8486101B09 only
U420	5102463J44	AUDIO AMP TDA8547TS
U700	5109152M01	IC EEPROM ISD3312OE1
U710	5102463J52	74HC4066D QUAD ANLOG SW
U720	5113818A01	SING SPLY LM2904DR
VR432	4805656W08	DIODE ZENER QUAD
VR433	4805656W08	DIODE ZENER QUAD
VR434	4802245J51	ZENER DIODE; BZX284-C6V8
VR439	4880140L15	10V ZENER
VR447	4802245J53	ZENER_DIODE; BZX284-C10
VR448	4802245J53	ZENER_DIODE; BZX284-C10
VR449	4802245J53	ZENER_DIODE; BZX284-C10
VR450	4802245J53	ZENER_DIODE; BZX284-C10
VR483	4802245J53	ZENER_DIODE; BZX284-C10
VR484	4802245J53	ZENER_DIODE; BZX284-C10
VR501	4813830A18	6.8V 5% 225MWMMBZ5235B_
VR506	4802245J51	ZENER DIODE; BZX284-C6V8
Y3200	4802245J43	MONOLITH/ XTAL FLTR
Y3761	4802245J49	XTAL 16.8MHZ WITH CLIP
	8486101B09	PCB's WARIS VHF PRIME
	8486101B10	

* Motorola Depot Servicing only

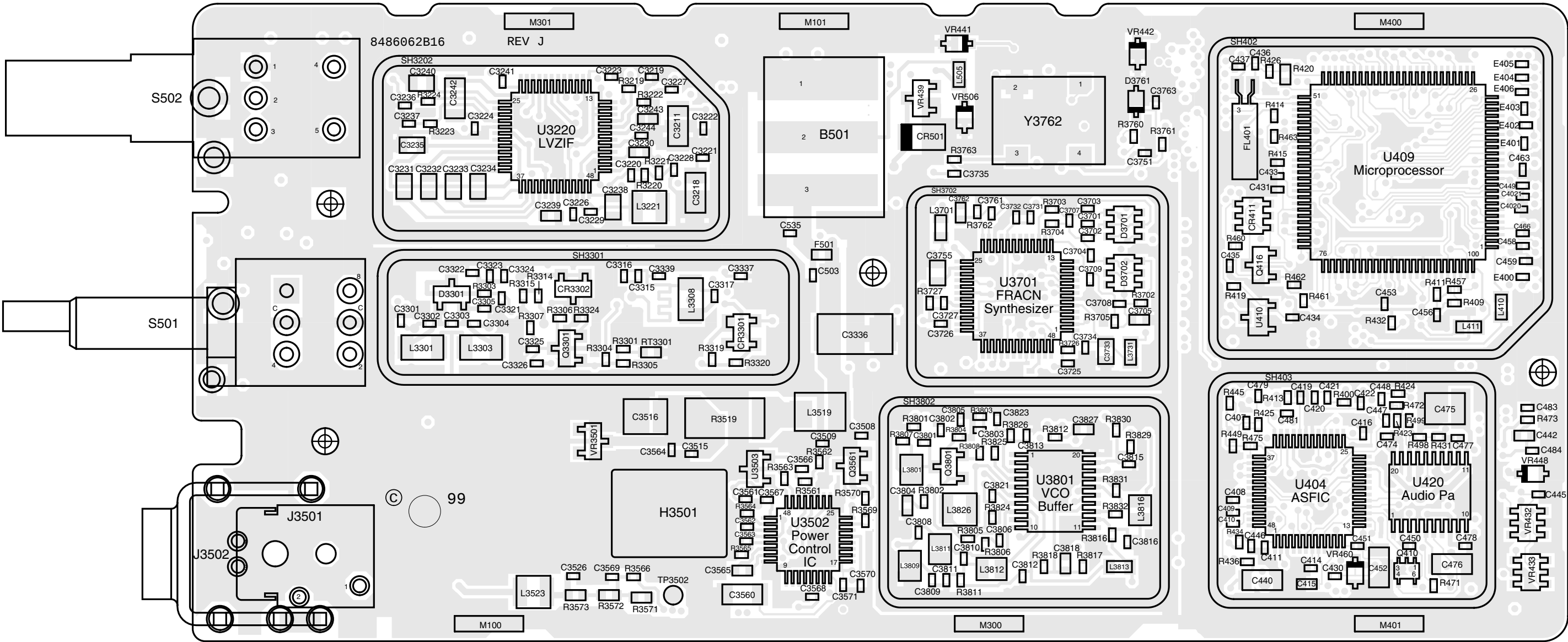
Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.

10.0 VHF PCB 8486062B16 / Schematics



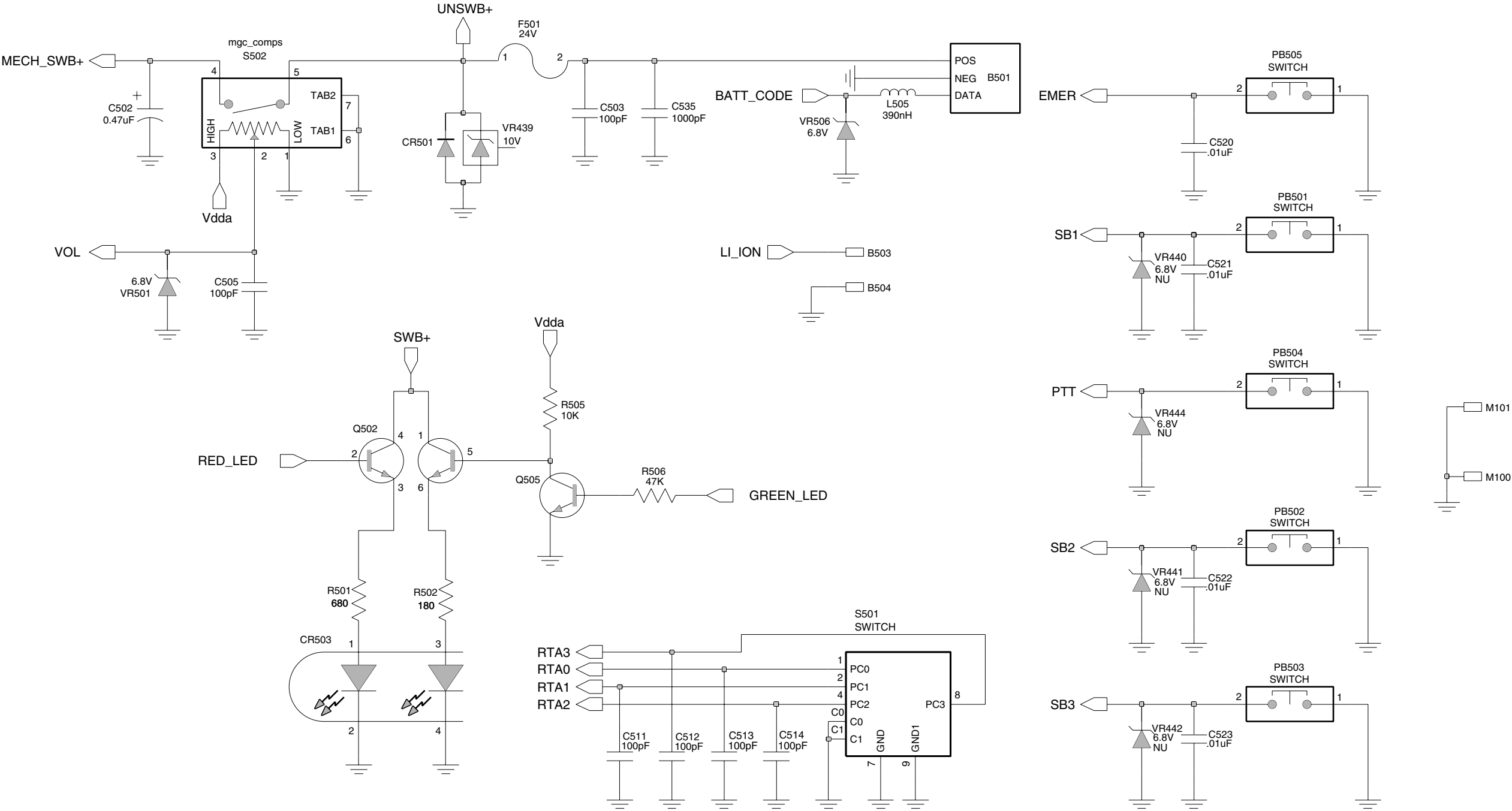
ZWG0130561-O

VHF (136-174 MHz) Main Board Top Side



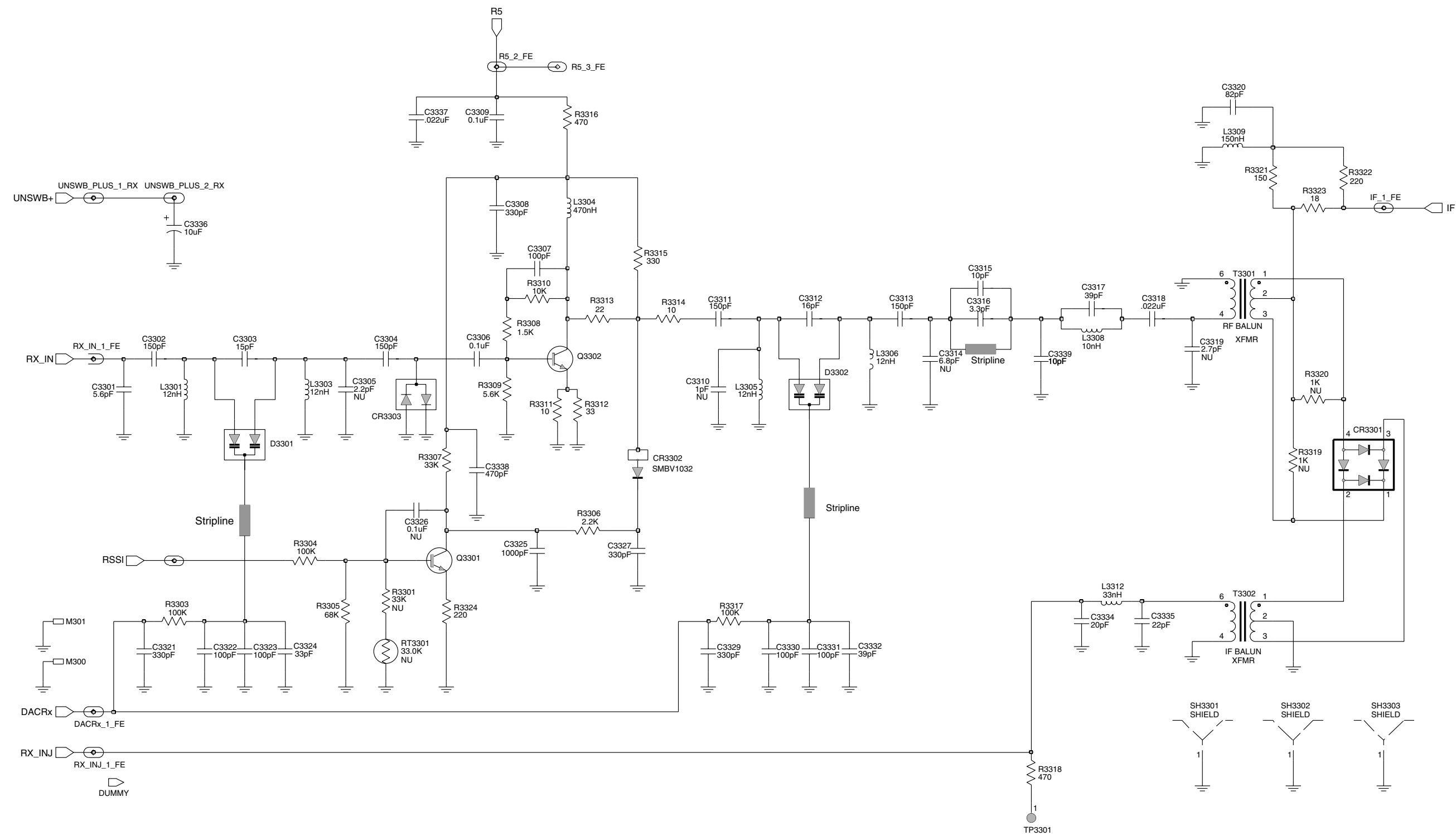
ZWG0130562-O

VHF (136-174 MHz) Main Board Bot Side



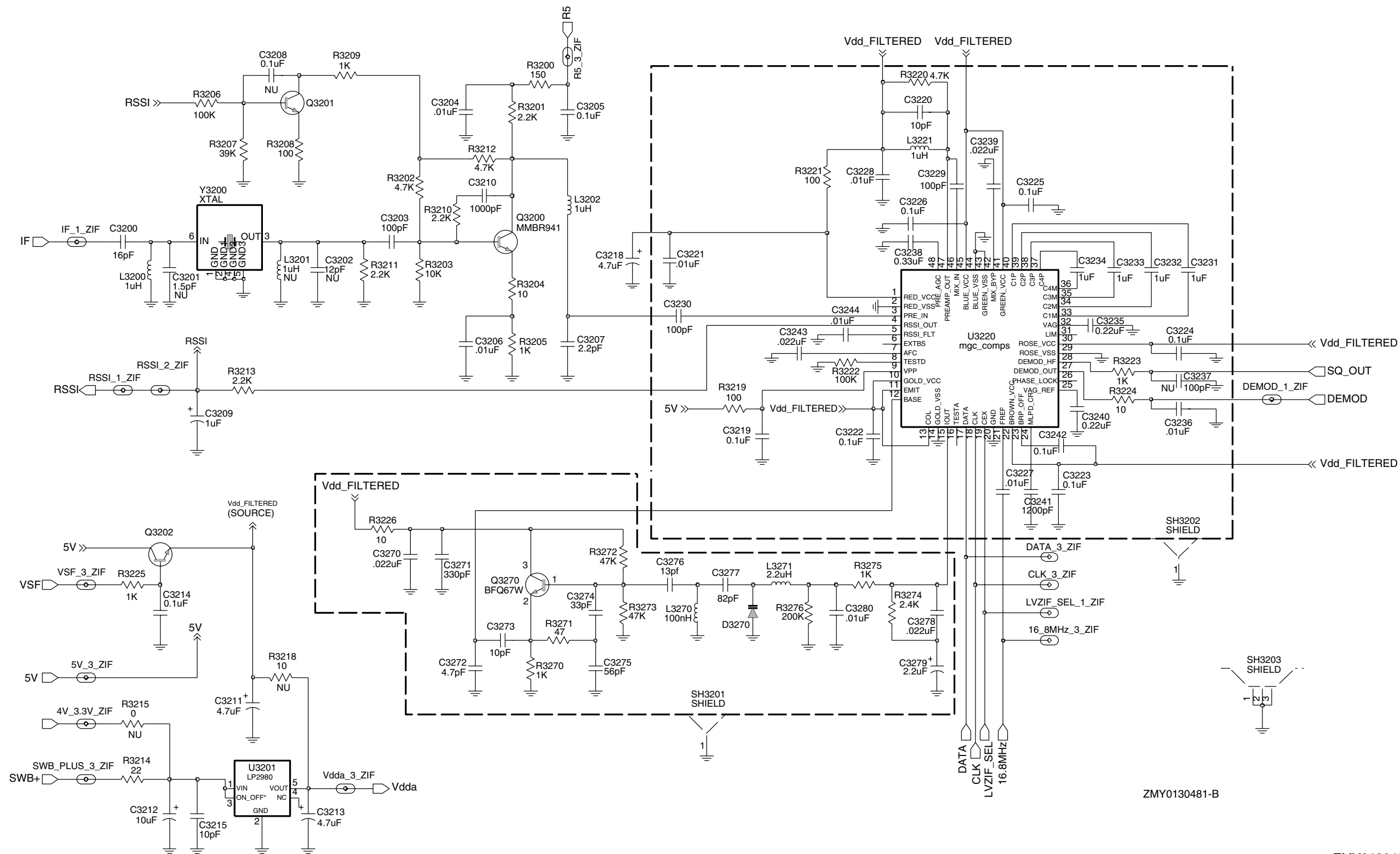
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ZMY0130456-A

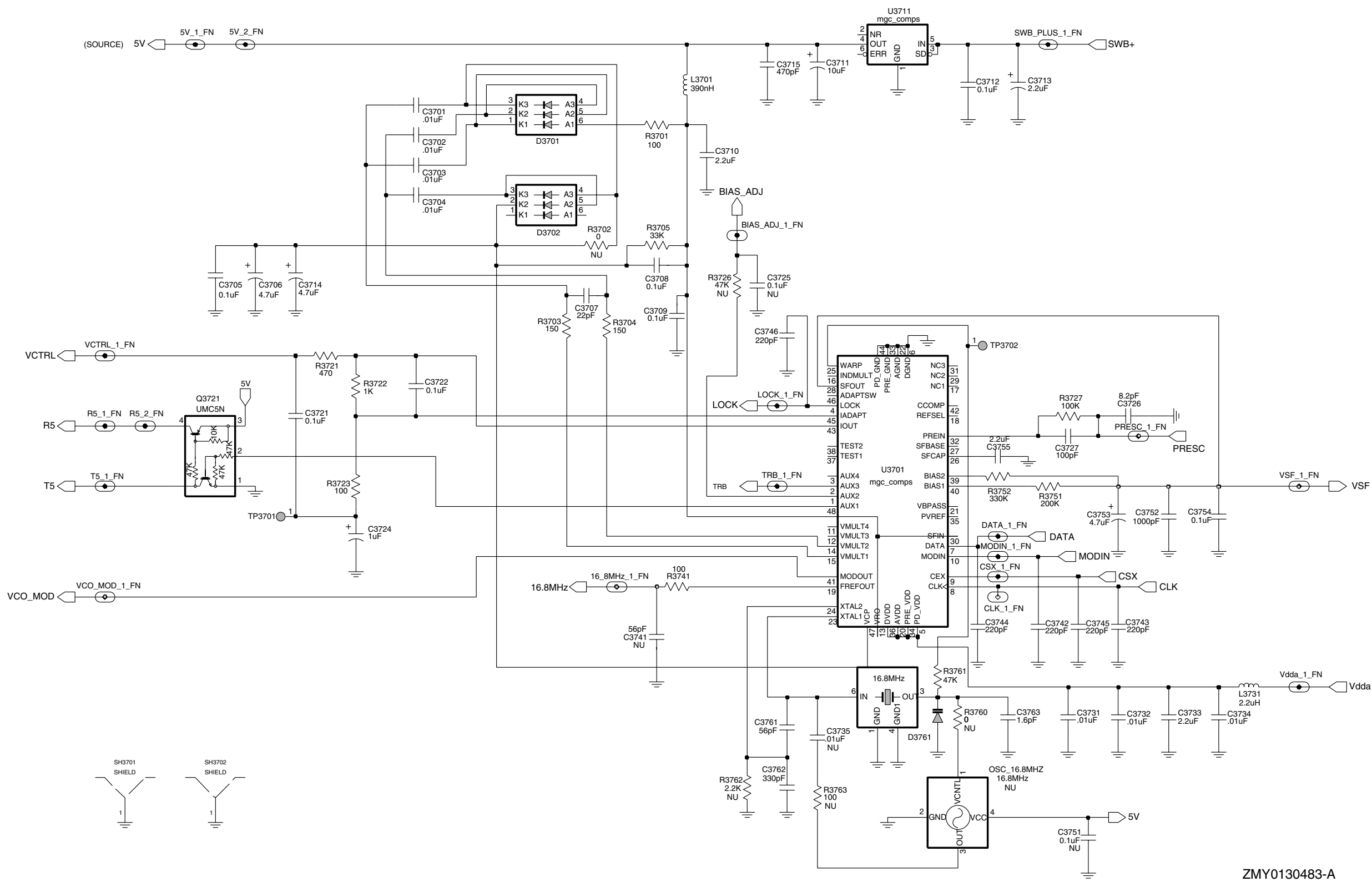
VHF (136-174 MHz) Receiver Front End



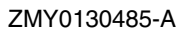
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ZMY0130481-B

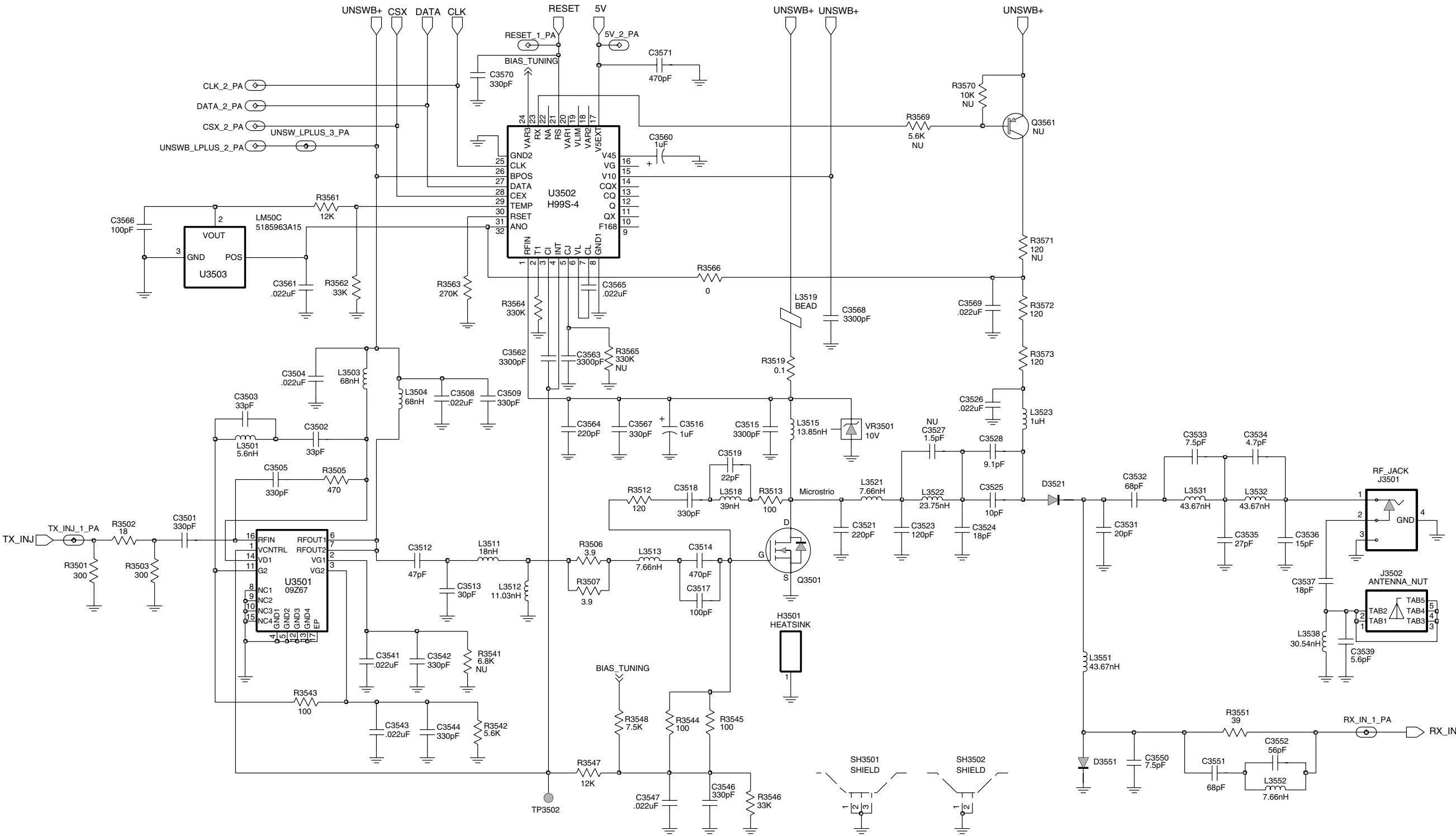
VHF (136-174 MHz) Receiver Back End



VHF (136-174 MHz) Synthesizer



VHF (136-174 MHz) Voltage Controlled Oscillator



ZMY0130484-A

VHF (136-174 MHz) Transmitter

11.0 VHF PCB 8486062B16 Parts List

Circuit Ref	Motorola Part No	Description
B501	0986237A02	Connector, Contact Battery
B503	3980502Z01	Backup battery B+ only GP360, GP380, GP680
B504	3980501Z01	Backup battery B- only GP360, GP380, GP680
C3200	2113743N31	16pF
C3203	2113743N50	100pF
C3204	2113743L41	10000pF, 10%
C3205	2113928N01	0.1uF, 10%
C3206	2113743L41	10000pF, 10%
C3207	2113743N10	2.2pF
C3209	2311049A07	1uF
C3210	2113743L17	1000pF, 10%
C3211	2311049A56	4.7uF, 20%, 10V
C3212	2311049A57	10uF
C3213	2311049A56	4.7uF, 20%, 10V
C3214	2113928N01	0.1uF, 10%
C3215	2113743N26	10pF
C3218	2311049A56	4.7uF, 20%, 10V
C3219	2113928N01	0.1uF, 10%
C3220	2113743N26	10pF
C3221	2113743L41	10000pF, 10%
C3222	2113928N01	0.1uF, 10%
C3223	2113928N01	0.1uF, 10%
C3224	2113928N01	0.1uF, 10%
C3225	2113928N01	0.1uF, 10%
C3226	2113928N01	0.1uF, 10%
C3227	2113743L41	10000pF, 10%
C3228	2113743L41	10000pF, 10%
C3229	2113743N50	100pF
C3230	2113740F51	100pF
C3231	2180478Z20	1uF
C3232	2180478Z20	1uF
C3233	2180478Z20	1uF
C3234	2180478Z20	1uF
C3235	2113743A23	0.220uF
C3238	2113743A24	0.330uF
C3239	2113743E07	0.022uF
C3240	2113743A23	0.220uF
C3241	2113743L19	1200pF
C3242	2109720D14	0.1uF
C3243	2113743E07	0.022uF
C3244	2113743L41	10000pF, 10%
C3270	2113743E07	0.022uF
C3271	2113743L05	330pF
C3272	2113743N18	4.7pF
C3273	2113743N26	10pF
C3274	2113743N38	33pF

Circuit Ref	Motorola Part No	Description
C3275	2113743N44	56pF
C3276	2113743N42	47pF
C3277	2113743N48	82pF
C3278	2113743E07	0.022uF
C3279	2311049A40	2.2uF, 10%, 16V
C3280	2113743L41	10000pF, 10%
C3301	2113743N20	5.6pF
C3302	2113743N54	150pF
C3303	2113743N30	15pF
C3304	2113743N54	150pF
C3306	2113928N01	0.1uF, 10%
C3307	2113743N50	100pF
C3308	2113743L05	330pF
C3309	2113928N01	0.1uF, 10%
C3311	2113743N54	150pF
C3312	2113743N31	16pF
C3313	2113743N54	150pF
C3315	2113743N26	10pF
C3316	2113743N14	3.3pF
C3317	2113743N40	39pF
C3318	2113743M08	22000pF, +80/-20%
C3320	2113743N48	82pF
C3321	2113743L05	330pF
C3322	2113743N50	100pF
C3323	2113743N50	100pF
C3324	2113743N38	33pF
C3325	2113743L17	1000pF, 10%
C3327	2113743L05	330pF
C3329	2113743L05	330pF
C3330	2113743N50	100pF
C3331	2113743N50	100pF
C3332	2113743N40	39pF
C3334	2113743N33	20pF
C3335	2113743N34	22pF
C3336	2311049A18	10uF
C3337	2113743M08	22000pF, +80/-20%
C3338	2113743L09	470pF, 10%
C3339	2113743N26	10pF
C3501	2113743L05	330pF
C3502	2113743N38	33pF
C3503	2113743N38	33pF
C3504	2113743M08	22000pF, +80/-20%
C3505	2113743N38	33pF
C3508	2113743M08	22000pF, +80/-20%
C3509	2113743L05	330pF
C3512	2113740F43	47pF
C3513	2113740F38	30pF
C3514	2113740F47	68pF
C3515	2113743L29	3300pF
C3516	2311049A08	1uF
C3517	2113740F47	68pF

Circuit Ref	Motorola Part No	Description
C3521	2111078B51	220pF
C3523	2111078B44	120pF
C3524	2113740F33	18pF
C3525	2113740F27	10pF
C3526	2113743M08	22000pF, +80/-20%
C3528	2113740F27	10pF
C3531	2113740F34	20pF
C3532	2113740F47	68pF
C3533	2113740F24	7.5pF
C3534	2113740F19	4.7pF
C3535	2113740F37	27pF
C3536	2113740F31	15pF
C3537	2113740F33	18pF
C3539	2113740F29	12pF
C3541	2113743M08	22000pF, +80/-20%
C3542	2113743L05	330pF
C3543	2113743M08	22000pF, +80/-20%
C3544	2113743L05	330pF
C3546	2113743L05	330pF
C3547	2113743M08	22000pF, +80/-20%
C3550	2113743N23	7.5pF
C3551	2113743N46	68pF
C3552	2113743N44	56pF
C3560	2311049A07	1uF
C3561	2113743M08	22000pF, +80/-20%
C3562	2113743L29	3300pF
C3563	2113743L29	3300pF
C3564	2113743L01	220pF
C3565	2113743E07	0.022uF
C3566	2113743N50	100pF
C3567	2113743L05	330pF
C3568	2113743L29	3300pF
C3569	2113743M08	22000pF, +80/-20%
C3570	2113743L05	330pF
C3571	2113743L09	470pF, 10%
C3701	2113743L41	10000pF, 10%
C3702	2113743L41	10000pF, 10%
C3703	2113743L41	10000pF, 10%
C3704	2113743L41	10000pF, 10%
C3705	2113743E20	0.10uF, 10%
C3706	2311049J11	4.7uF
C3707	2113743N34	22pF
C3708	2113928N01	0.1uF, 10%
C3709	2113928N01	0.1uF, 10%
C3710	2104993J02	2.2uF
C3711	2311049A69	10uF
C3712	2113928N01	0.1uF, 10%
C3713	2311049A09	2.2uF
C3714	2311049J11	4.7uF
C3715	2113743L09	470pF, 10%
C3721	2113743E20	0.10uF, 10%

Circuit Ref	Motorola Part No	Description
C3722	2113743E20	0.10uF, 10%
C3724	2311049A08	1uF
C3726	2113743N24	8.2pF
C3727	2113743N50	100pF
C3731	2113743L41	10000pF, 10%
C3732	2113743L41	10000pF, 10%
C3733	2104993J02	2.2uF
C3734	2113743L41	10000pF, 10%
C3742	2113743L01	220pF
C3743	2113743L01	220pF
C3744	2113743L01	220pF
C3745	2113743L01	220pF
C3746	2113743L01	220pF
C3752	2113743L17	1000pF, 10%
C3753	2311049A56	4.7uF, 20%, 10V
C3754	2113928N01	0.1uF, 10%
C3755	2104993J02	2.2uF
* C3761	2113743N44	56pF
* C3762	2113740F63	330pF
* C3763	2113743N08	1.6pF
C3801	2113743N18	4.7pF
C3803	2113743L17	1000pF, 10%
C3804	2113743E20	0.10uF, 10%
C3805	2113743N18	4.7pF
C3806	2113743N50	100pF
C3808	2113743N30	15pF
C3809	2113743N36	27pF
C3811	2113928N01	0.1uF, 10%
C3812	2113928N01	0.1uF, 10%
C3813	2113743L41	10000pF, 10%
C3815	2113743L17	1000pF, 10%
C3816	2113743N22	6.8pF
C3818	2113743E07	0.022uF
C3821	2113743L41	10000pF, 10%
C3822	2113743L17	1000pF, 10%
C3823	2113743L41	10000pF, 10%
C3824	2113743N44	56pF
C3825	2113743N30	15pF
C3826	2113743N18	4.7pF
C3827	2113743E07	0.022uF
C3828	2185895Z01	0.01uF, 10%
C3829	2185895Z01	0.01uF, 10%
C3830	2113743N46	68pF
C3832	2113743L17	1000pF, 10%
C3833	2113743N18	4.7pF
C3834	2113743N44	56pF
C3835	2113743N22	6.8pF
C3836	2113743N30	15pF
C3842	2113743L17	1000pF, 10%
C400	2113743L41	10000pF, 10%
C401	2113928N01	0.1uF, 10%

Circuit Ref	Motorola Part No	Description
C402	2113928N01	0.1uF, 10%
C4020	2113743L17	1000pF, 10%
C4021	2113743L17	1000pF, 10%
C403	2113928D08	10uF, +/-80%/-20%
C407	2113928N01	0.1uF, 10%
C408	2113743N50	100pF
C409	2113928N01	0.1uF, 10%
C410	2113928N01	0.1uF, 10%
C411	2113928N01	0.1uF, 10%
C414	2113928N01	0.1uF, 10%
C415	2185895Z01	0.01uF, 10%
C416	2113928N01	0.1uF, 10%
C419	2113743L41	10000pF, 10%
C420	2113743L41	10000pF, 10%
C421	2113928N01	0.1uF, 10%
C422	2113928N01	0.1uF, 10%
C423	2113743N50	100pF
C424	2311049A59	10uF, 10%, 6V
C425	2113928N01	0.1uF, 10%
C426	2113743N50	100pF
C427	2113743N50	100pF
C428	2113928N01	0.1uF, 10%
C429	2113928N01	0.1uF, 10%
C430	2113928N01	0.1uF, 10%
C431	2113743N50	100pF
C433	2113743L41	10000pF, 10%
C434	2113928N01	0.1uF, 10% only GP360, GP380, GP680
C435	2113928N01	0.1uF, 10%
C436	2113743N34	22pF only GP360, GP380, GP680
C437	2113743N34	22pF only GP360, GP380, GP680
C440	2113743G26	4.7F, + 80/-20%
C441	2113743L09	470pF, 10%
C442	2113743E20	0.10uF, 10%
C443	2113928N01	0.1uF, 10%
C444	2113743N50	100pF
C445	2113743L09	470pF, 10%
C446	2113743L09	470pF, 10%
C447	2113928N01	0.1uF, 10%
C448	2113928N01	0.1uF, 10%
C449	2113743N50	100pF
C451	2113743M08	22000pF, +80/-20%
C452	2113743B29	1uF
C453	2113743N50	100pF
C456	2113743N50	100pF
C458	2113743N50	100pF
C459	2113743N50	100pF
C463	2113743N50	100pF
C466	2113743N50	100pF

Circuit Ref	Motorola Part No	Description
C467	2113928N01	0.1uF, 10%
C471	2113743L09	470pF, 10%
C472	2113743L09	470pF, 10%
C473	2113743L09	470pF, 10%
C474	2113743L41	10000pF, 10%
C475	2113743H14	10uF, +80/-20%
C476	2113928D08	10uF, +/-80%/-20%
C477	2113743L17	1000pF, 10%
C478	2113743L17	1000pF, 10%
C479	2113928N01	0.1uF, 10%
C480	2113928D08	10uF, +/-80%/-20%
C481	2113928N01	0.1uF, 10%
C482	2113928N01	0.1uF, 10%
C483	2113743L09	470pF, 10%
C484	2113743L09	470pF, 10%
C490	2113743L09	470pF, 10%
C491	2113743L09	470pF, 10%
C492	2113743L09	470pF, 10%
C493	2113743N50	100pF
C494	2113743N50	100pF
C495	2113743L09	470pF, 10%
C496	2113743L09	470pF, 10%
C497	2113743L09	470pF, 10%
C502	2311049A05	0.47uF, 10%, 25V
C503	2113743N50	100pF
C505	2113743N50	100pF
C511	2113743N50	100pF
C512	2113743N50	100pF
C513	2113743N50	100pF
C514	2113743N50	100pF
C520	2113743L41	10000pF, 10%
C521	2113743L41	10000pF, 10%
C522	2113743L41	10000pF, 10%
C523	2113743L41	10000pF, 10%
C535	2113743L17	1000pF, 10%
CR3301	4802245J42	Ring Quad diode
CR3302	4805129M96	Dual Bonds Pin Diode, RH Reeled
CR3303	4880154K03	Dual common anode-cathode diode
CR411	4802245J62	Schottky diode
CR412	4802245J62	Schottky diode
CR413	4802245J62	Schottky diode
CR440	4813833C02	Dual Diode Common Cathode
CR501	4880107R01	Rectifier
CR503	4805729G49	LED Red/Yellow
D3270	4862824C01	Varactor
D3301	4802081B58	Dual Diode
D3302	4802081B58	Dual Diode
D3521	4880973Z02	Pin diode
D3551	4880973Z02	Pin diode

Circuit Ref	Motorola Part No	Description
D3701	4802233J09	Triple diode
D3702	4802233J09	Triple diode
* D3761	4862824C03	Varactor
D3821	4805649Q13	Varactor
D3831	4805649Q13	Varactor
D3832	4862824C01	Varactor
E400	2480640Z01	Ferrite bead
E401	2480640Z01	Ferrite bead
E402	2480640Z01	Ferrite bead
E403	2480640Z01	Ferrite bead
E404	2480640Z01	Ferrite bead
E405	2480640Z01	Ferrite bead
E406	2480640Z01	Ferrite bead
E407	2480640Z01	Ferrite bead
E408	2480640Z01	Ferrite bead
E409	2480640Z01	Ferrite bead
F501	6580542Z01	3A Fuse
FL401	4870368G02	Real Time Clock Osciall XTAL only GP360, GP380, GP680
H3501	2680499Z01	Heat spreader
J3501	0985613Z01	RF Jack
J3502	0280519Z02	Antenna_Nut
J400	0905505Y04	40-pin connector
J403	0905505Y02	20-pin connector
L3200	2462587N68	1uH
L3202	2462587N68	1uH
L3221	2462587N68	1uH
L3270	2462587T15	100nH
L3271	2462587Q20	2.2uF
L3301	2462587T35	12nH
L3303	2462587T35	12nH
L3304	2462587T23	470nH
L3305	2462587T35	12nH
L3306	2462587T35	12nH
L3308	2462587T34	10nH
L3309	2462587N55	150nH
L3312	2462587V28	33nH
L3501	2413926H09	5.6nH
L3503	2462587V32	68nH
L3504	2462587N51	68nH
L3511	2462587N44	18nH
L3512	2479990B01	11.03nH
L3513	2479990A02	7.66nH, 10%
L3515	2479990C03	13.85nH
L3519	2484657R01	Ferrite bead
L3521	2479990A02	7.66nH, 10%
L3522	2479990E01	23.75nH
L3523	2462587N68	1uH
L3531	2479990N01	43.67nH
L3532	2479990N01	43.67nH
L3538	2479990M01	30.54nH

Circuit Ref	Motorola Part No	Description
L3551	2479990N01	43.67nH
L3552	2479990A02	7.66nH, 10%
L3701	2462587Q42	390nH, 10%
L3731	2462587Q20	2.2uF
L3801	2462587V34	100nH
L3809	2462587V27	27nH
L3811	2462587V34	100nH
L3812	2462587V34	100nH
L3813	2462587Q47	1000nH, 10%, QF45
L3816	2462587V34	100nH
L3821	2462587N50	56nH
L3822	2462587N49	47nH
L3823	2462587N49	47nH
L3824	2462587N68	1uH
L3825	2462587V34	100nH
L3826	2462587N68	1uH
L3831	2462587N50	56nH
L3832	2462587N51	68nH
L3833	2462587N50	56nH
L3834	2462587N68	1uH
L400	2462587Q42	390nH, 10%
L401	2462587Q42	390nH, 10%
L410	2462587Q42	390nH, 10%
L411	2462587Q42	390nH, 10%
L505	2462587Q42	390nH, 10%
PB501	4080523Z01	Tactile, Pushbutton
PB502	4080523Z01	Tactile, Pushbutton
PB503	4080523Z01	Tactile, Pushbutton not in GP320
PB504	4080523Z01	Tactile, Pushbutton
PB505	4080523Z01	Tactile, Pushbutton not in GP320
Q3200	4813827A07	NPN Transistor
Q3201	4880214G02	NPN Transistor
Q3202	4880214G02	NPN Transistor
Q3270	4805218N63	RF Transistor
Q3301	4880214G02	NPN Transistor
Q3302	4813827A07	NPN Transistor
Q3501	4813828A08	FET
Q3561	4813824A17	PNP Transistor
Q3721	4802245J50	Dual NPN/PNP Transistor
Q3801	4813827A07	NPN Transistor
Q400	4809579E18	Mosfet P - channel
Q403	4813824A17	PNP Transistor
Q405	4802245J54	Dual NPN Transistor
Q410	4802245J54	Dual NPN Transistor
Q416	4809579E18	Mosfet P - channel only GP360, GP380, GP680
Q417	4802245J50	Dual NPN/PNP Transistor
Q502	5180159R01	Dual NPN Transistor
Q505	4880214G02	NPN Transistor

Circuit Ref	Motorola Part No	Description
R3200	0662057M54	150
R3201	0662057M82	2200
R3202	0662057M90	4700
R3203	0662057M98	10k
R3204	0662057M26	10
R3205	0662057M74	1000
R3206	0662057N23	100K
R3207	0662057N13	39K
R3208	0662057M50	100
R3209	0662057M74	1000
R3210	0662057M82	2200
R3211	0662057M82	2200
R3212	0662057M90	4700
R3213	0662057M82	2200
R3214	0662057M34	22
R3219	0662057M50	100
R3220	0662057M90	4700
R3221	0662057M50	100
R3224	0662057M26	10
R3225	0662057M74	1000
R3226	0662057M26	10
R3270	0662057M74	1000
R3271	0662057M42	47
R3272	0662057N15	47K
R3273	0662057N15	47K
R3274	0662057M83	2400
R3275	0662057M74	1000
R3276	0662057N30	200K
R3303	0662057N23	100K
R3304	0662057N23	100K
R3305	0662057N19	68K
R3306	0662057M82	2200
R3307	0662057N11	33K
R3308	0662057M78	1500
R3309	0662057M92	5600
R3310	0662057M98	10k
R3311	0662057M26	10
R3312	0662057M38	33
R3313	0662057M34	22
R3314	0662057M26	10
R3315	0662057M62	330
R3316	0662057M66	470
R3317	0662057N23	100K
R3318	0662057M66	470
R3321	0662057M54	150
R3322	0662057M58	220
R3323	0662057M32	18
R3324	0662057M58	220
R3501	0662057M61	300
R3502	0662057M32	18
R3503	0662057M61	300

Circuit Ref	Motorola Part No	Description
R3505	0662057M62	330
R3506	0662057B62	3.9
R3507	0662057B62	3.9
R3519	0680539Z01	0.1
R3541	0662057N13	39K
R3542	0662057M92	5600
R3543	0662057M50	100
R3544	0662057A25	100
R3545	0662057A25	100
R3546	0662057N01	12K
R3547	0662057N11	33K
R3548	0662057N07	22K
R3551	0662057M40	39
R3561	0662057N01	12K
R3562	0662057N11	33K
R3563	0662057N33	270K
R3564	0662057N35	330K
R3569	0662057M92	5600
R3570	0662057M98	10k
R3571	0662057A27	120
R3572	0662057A27	120
R3573	0662057A27	120
R3701	0662057M50	100
R3703	0662057M54	150
R3704	0662057M54	150
R3705	0662057N11	33K
R3721	0662057M66	470
R3722	0662057M74	1000
R3723	0662057M50	100
R3727	0662057N23	100K
R3741	0662057M50	100
R3751	0662057N30	200K
R3752	0662057N35	330K
R3761	0662057N15	47K
R3802	0662057M50	100
R3803	0662057M58	220
R3804	0662057M98	10k
R3805	0662057N08	24K
R3806	0662057M34	22
R3808	0662057M26	10
R3811	0662057M50	100
R3816	0662057M74	1000
R3817	0662057M01	0
R3821	0662057M58	220
R3822	0662057M42	47
R3823	0662057N11	33K
R3824	0662057N07	22K
R3825	0662057M38	33
R3826	0662057M32	18
R3828	0662057M50	100
R3829	0662057M01	0

Circuit Ref	Motorola Part No	Description
R3831	0662057M98	10k
R3832	0662057N01	12K
R3833	0662057M58	220
R3834	0662057M42	47
R3835	0662057N15	47K
R3836	0662057M98	10k
R400	0662057N15	47K
R401	0662057M01	0
R405	0662057M01	0
R406	0662057N20	75K
R407	0662057N19	68K
R409	0662057M98	10k
R410	0662057N23	100K
R411	0662057M98	10k
R413	0662057M01	0
R414	0662057V34	180K
R415	0662057V26	91K
R416	0662057M98	10k
R418	0662057M01	0
R419	0662057M67	510 only GP360, GP380, GP680
R420	0662057B46	10M only GP360, GP380, GP680
R421	0662057M81	2000
R423	0662057N21	82K
R424	0662057N12	36K
R425	0662057N10	30K
R426	0662057N35	330K only GP360, GP380, GP680
R427	0662057M84	2700
R428	0662057M10	2.2
R429	0662057M98	10k
R431	0662057N39	470K
R432	0662057N16	51K
R434	0662057M62	330
R435	0662057M81	2000
R436	0662057M01	0
R445	0662057N08	24K
R447	0662057N51	1.5M
R448	0662057M98	10k
R449	0662057N08	24K
R450	0683962T45	68 ohms, 1W
R451	0662057N03	15K
R452	0662057N23	100K
R456	0662057M01	0
R457	0662057M98	10k
R460	0662057M90	4700
R461	0662057M56	180 only GP360, GP380, GP680
R462	0662057M98	10k only GP360, GP380, GP680

Circuit Ref	Motorola Part No	Description
R463	0662057M61	300
R471	0662057M92	5600
R472	0662057M93	6200
R473	0662057M26	10
R475	0662057M01	0
R476	0662057N08	24K
R477	0662057M74	1000
R478	0662057M98	10k
R481	0662057N08	24K
R492	0662057M01	0
R498	0662057M98	10k
R499	0662057M98	10k
R501	0662057M70	680
R502	0662057M56	180
R505	0662057M98	10k
R506	0662057N15	47K
RT400	0680590Z01	THERMISTOR 33K
S501	4080710Z01	Frequency Switch only GP340, GP640
S501	4080710Z02	Frequency Switch only GP360, GP380, GP680
S502	1880619Z02	Volume Switch
SH3201	2602023X08	Rx Backend Top Shield
SH3202	2686081B02	LVZIF shields
SH3203	2686081B03	45.1MHz Xtal Filter Shield
SH3301	2686081B01	Rx Frontend Bottom Shield
SH3302	2686081B05	Mixer Shield
SH3303	2686081B06	Rx Frontend Top Shield
SH3501	2686081B03	Harmonic Filter Shield
SH3502	2686081B04	PA driver Shield
SH3701	2680511Z01	Synthesizer top shield
SH3702	2680511Z01	Synthesizer bottom shield
SH3801	2680513Z01	VCO Top Shield
SH3802	2680514Z01	VCO Bottom Shield
SH400	2680505Z01	Controller Memory Shield
SH401	2680506Z01	Controller on-off shield
SH402	2680515Z01	Controller Microprocessor shield
SH403	2680516Z01	Controller Asfic_Cmp/Audio PA shield
T3301	2580541Z01	Balun transformer
T3302	2580541Z01	Balun transformer
U3201	5102463J58	3.3V Regulator
U3220	5109632D83	LVZIF IC
U3501	5185130C65	VHF/UHF/800 MHZ LDMOS Driver
U3502	5185765B28	PCIC
U3503	5185963A15	Temperature Sense
U3701	5185963A27	LVFRACN Synthesizer IC
U3711	5105739X05	5V Regulator
U3801	5105750U54	VCO BUFFER IC

Circuit Ref	Motorola Part No	Description
U400	5102463J40	3.3V Regulator
U404	5185963A53	ASFIC_CMP
U405	5102463J36	Static_RAM_32KX8
* U406	5102463J60	512K X 8 Flash Memory
* U407	5102463J64	16k X 8 EEPROM
U409	5102226J56	Microprocessor IC
U410	5102463J57	3.3V Regulator only GP360, GP380, GP680
U420	5102463J44	Audio PA
VR3501	4880140L17	Zener diode-12V
VR432	4805656W08	5.6V Zener diode
VR433	4805656W08	5.6V Zener diode
VR434	4802245J73	ZENER DIODE-6.8V
VR439	4880140L17	Zener diode-12V
VR447	4802245J74	ZENER DIODE-10V
VR448	4802245J74	ZENER DIODE-10V
VR449	4802245J74	ZENER DIODE-10V
VR450	4802245J74	ZENER DIODE-10V
VR460	4802245J73	ZENER DIODE-6.8V
VR501	4802245J73	ZENER DIODE-6.8V
VR506	4802245J73	ZENER DIODE-6.8V
Y3200	9186153B01	Crystal Filter
Y3761	4805875Z04	16.8MHz Xtal oscillator (SMD)
	5480678Z01	PCB Bar Code Label
	8486062B16	VHF main PC Board

* Motorola Depot Servicing only

Reference designators with an asterisk indicate components which are not fieldreplaceable because they need to be calibrated with specialized factory equipment after installation. Radios in which these parts have been replaced in the field will be off frequency at temperature extremes.