

9.16 UHF Band 2 Circuit Board/Schematic Diagrams and Parts List (PCB 8486686Z02)

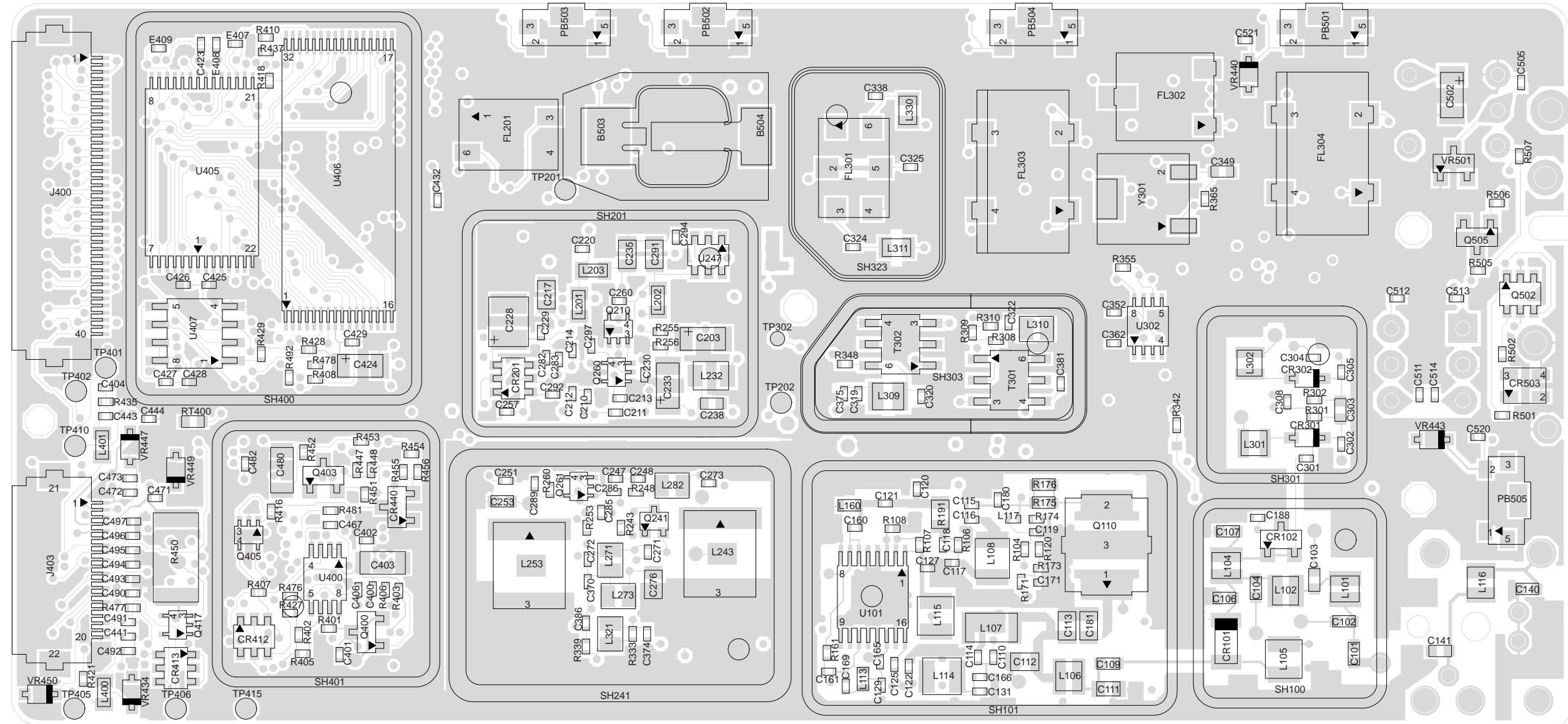


Figure 9-126. UHF (450-527 MHz) 5000/7000 Series Main Board Top Side PCB No. 8486686Z02

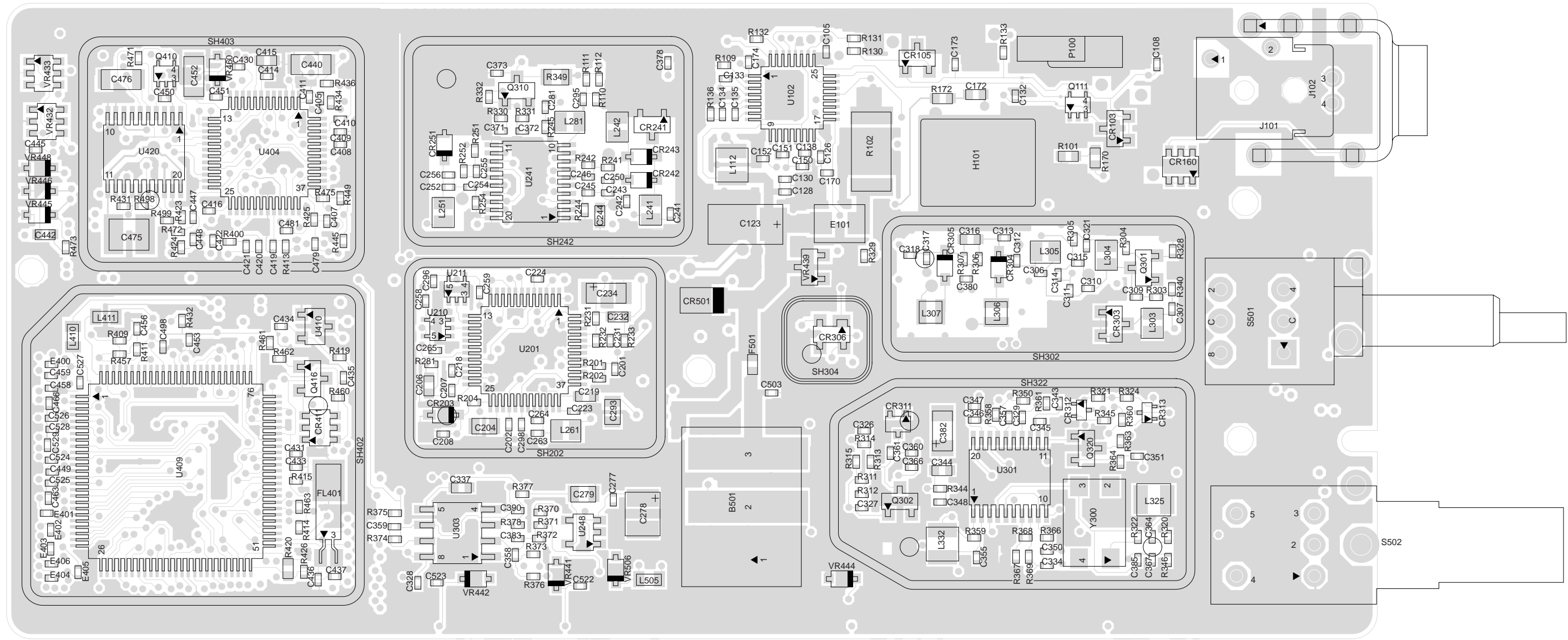


Figure 9-127. UHF (450-527 MHz) 5000/7000 Series Main Board Bottom Side PCB No. 8486686Z02

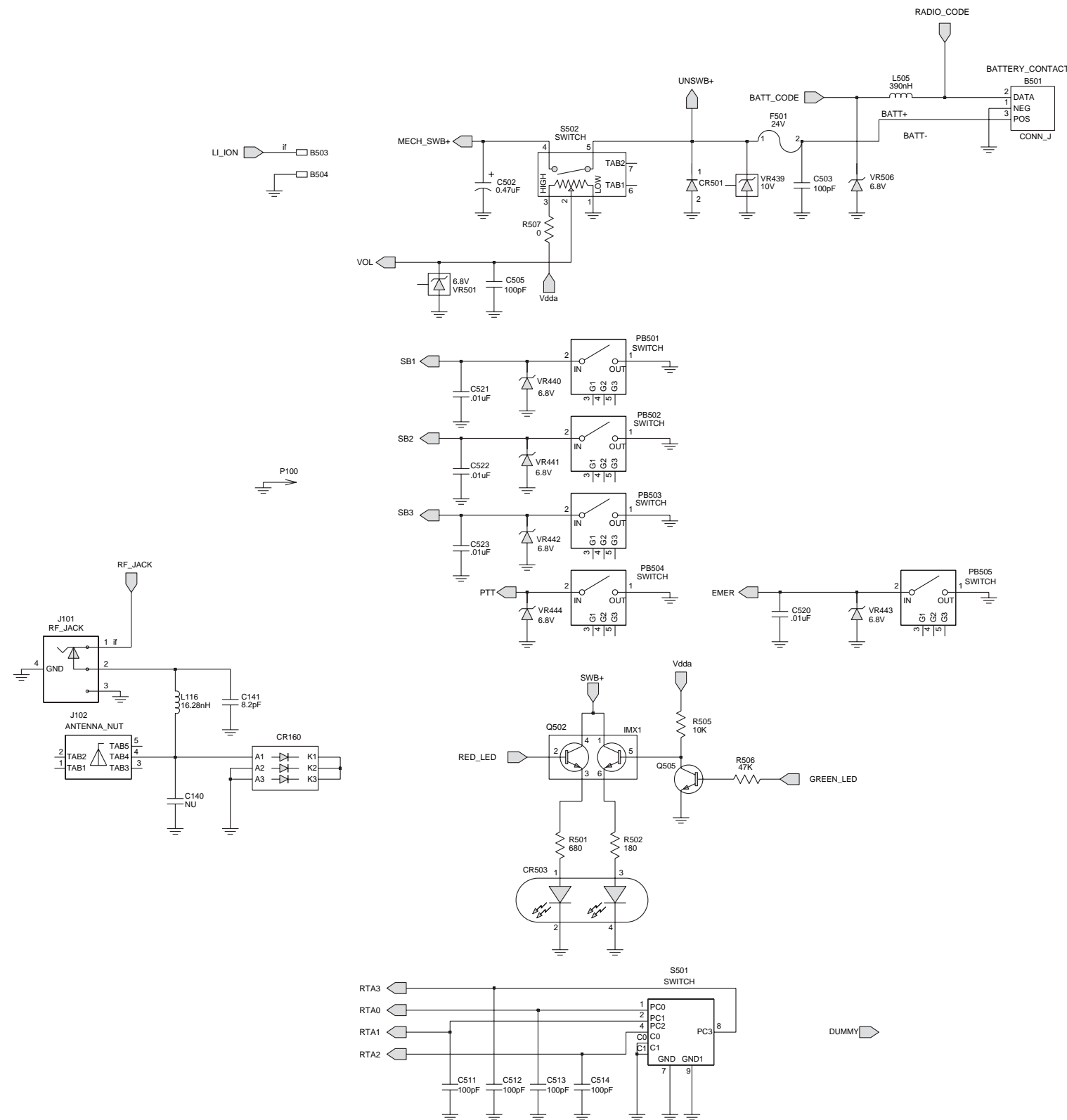


Figure 9-128. UHF (450-527 MHz) Controls And Switches Schematic Diagram

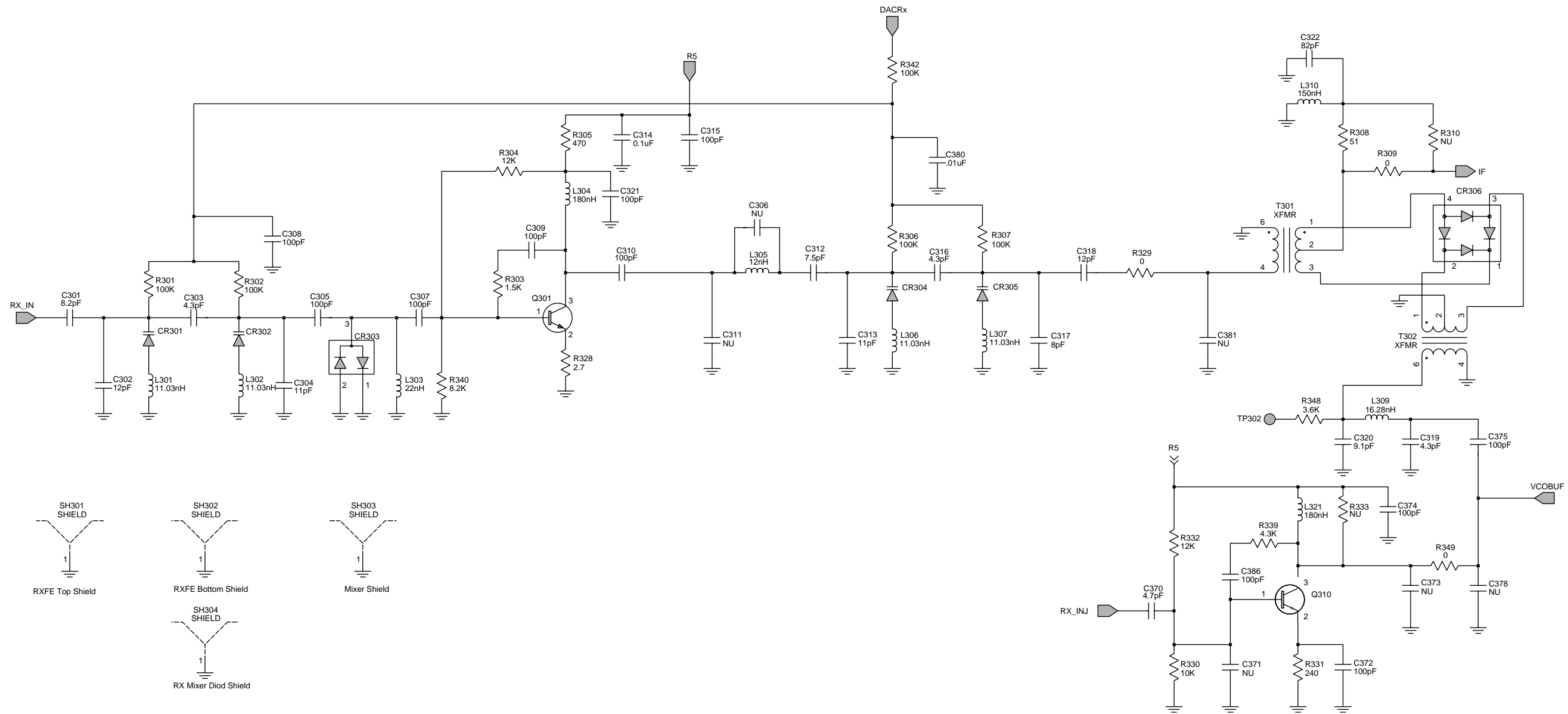


Figure 9-129. UHF (450-527 MHz) Receiver Front End Schematic Diagram

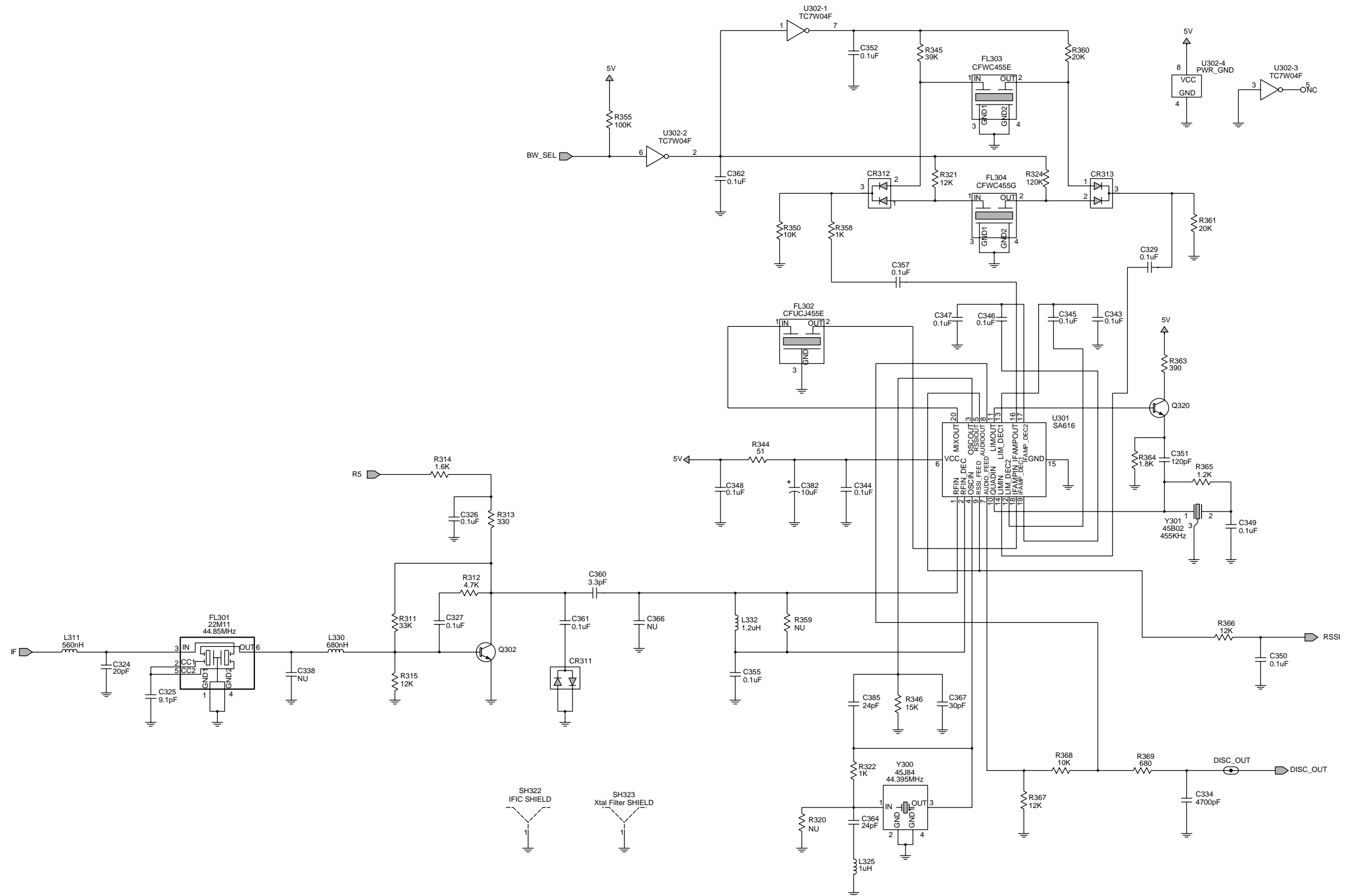


Figure 9-130. UHF (450-527 MHz) Receiver Back End Schematic Diagram

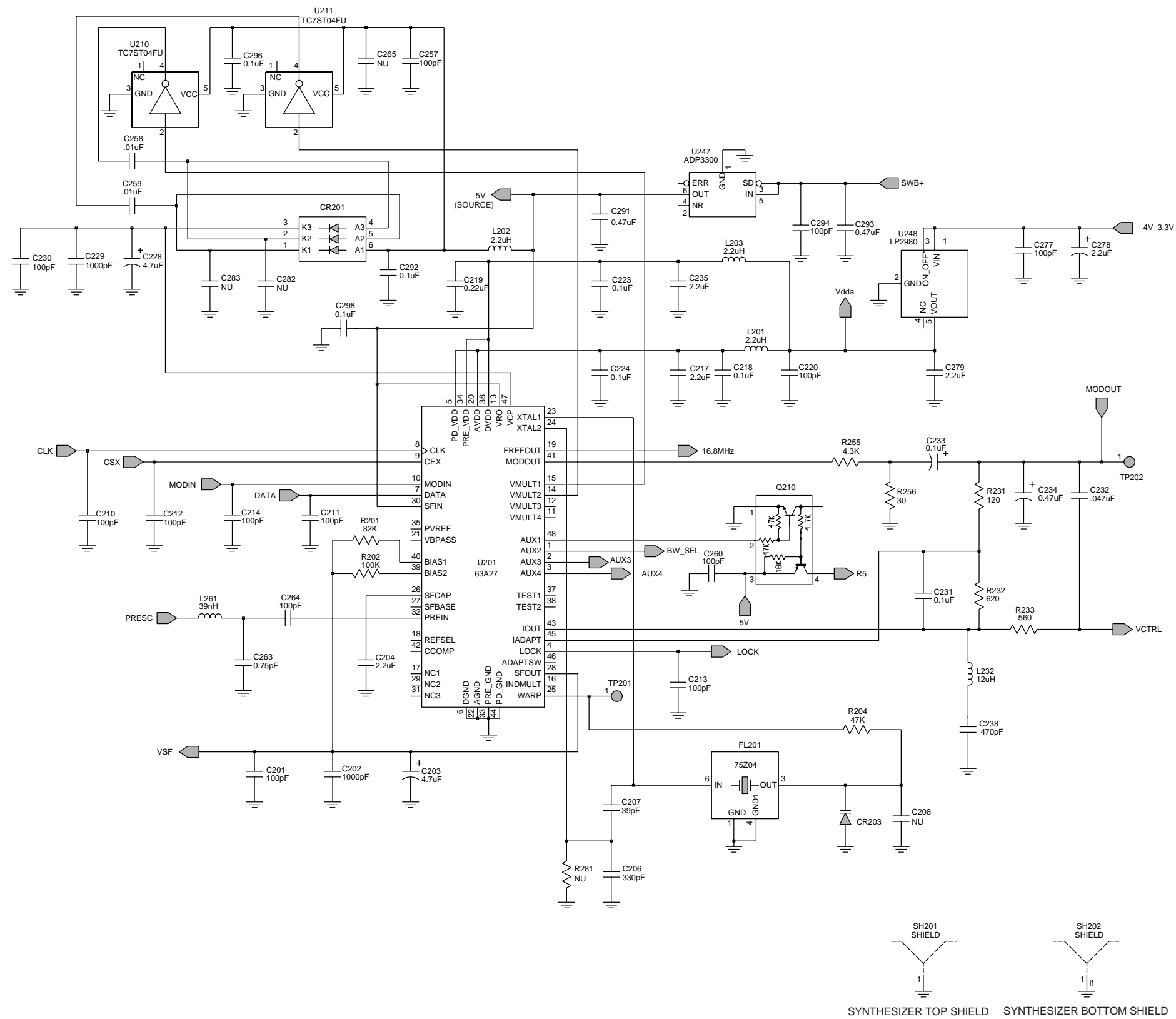


Figure 9-131. UHF (450-527 MHz) Synthesizer Schematic Diagram

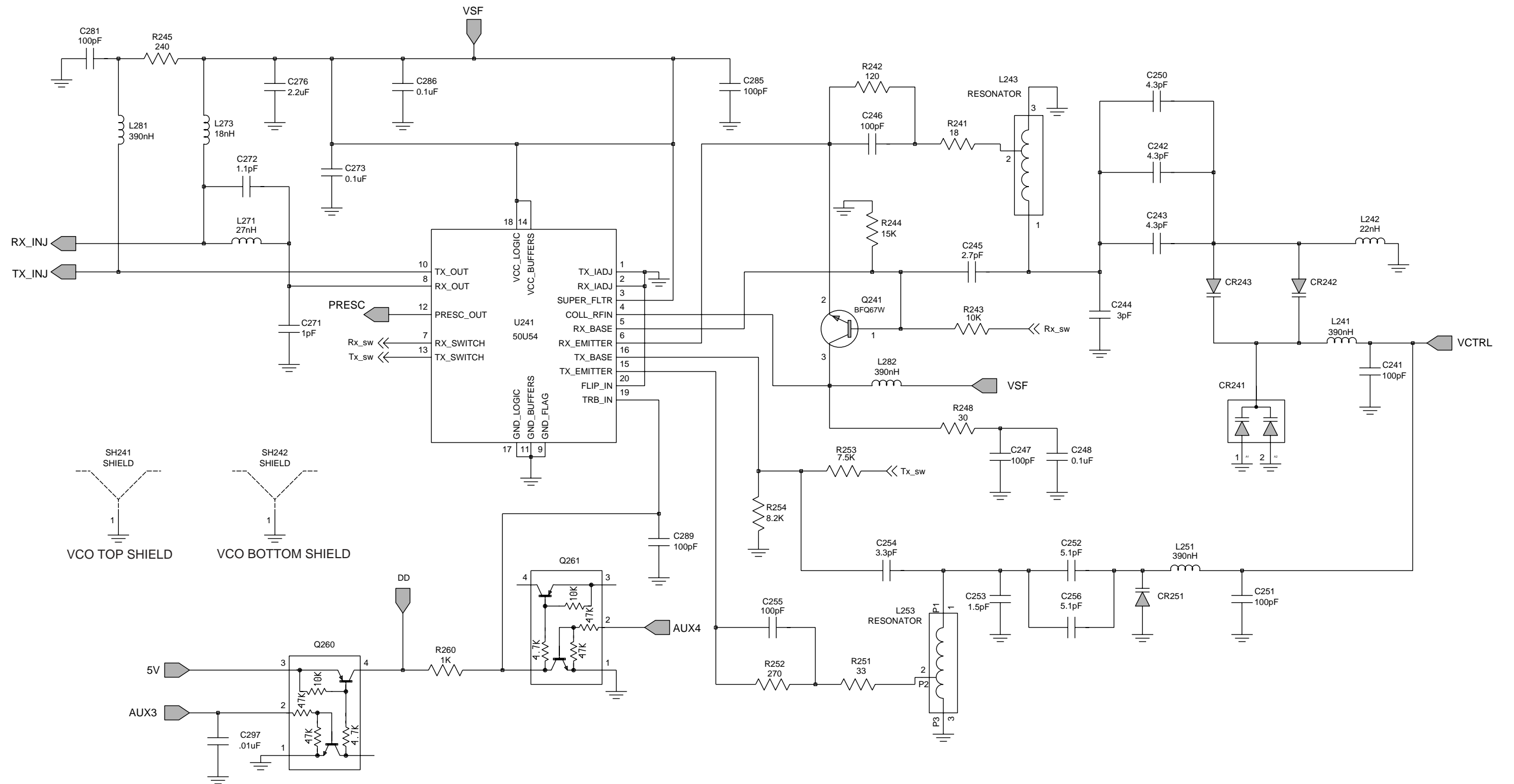


Figure 9-132. UHF (450-527 MHz) Voltage Controlled Oscillator Schematic Diagram

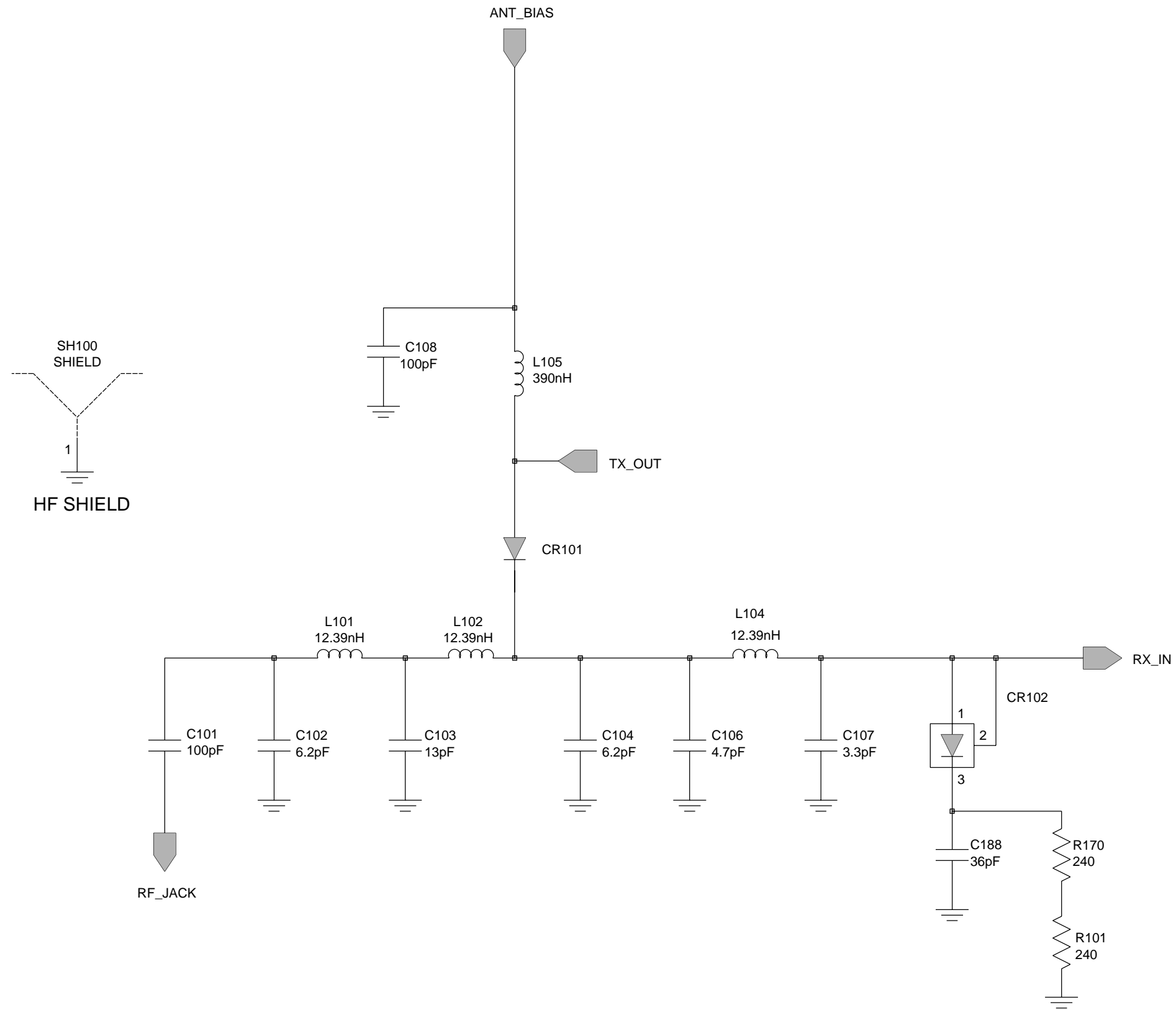


Figure 9-133. UHF (450-527 MHz) Harmonic Filter Schematic Diagram

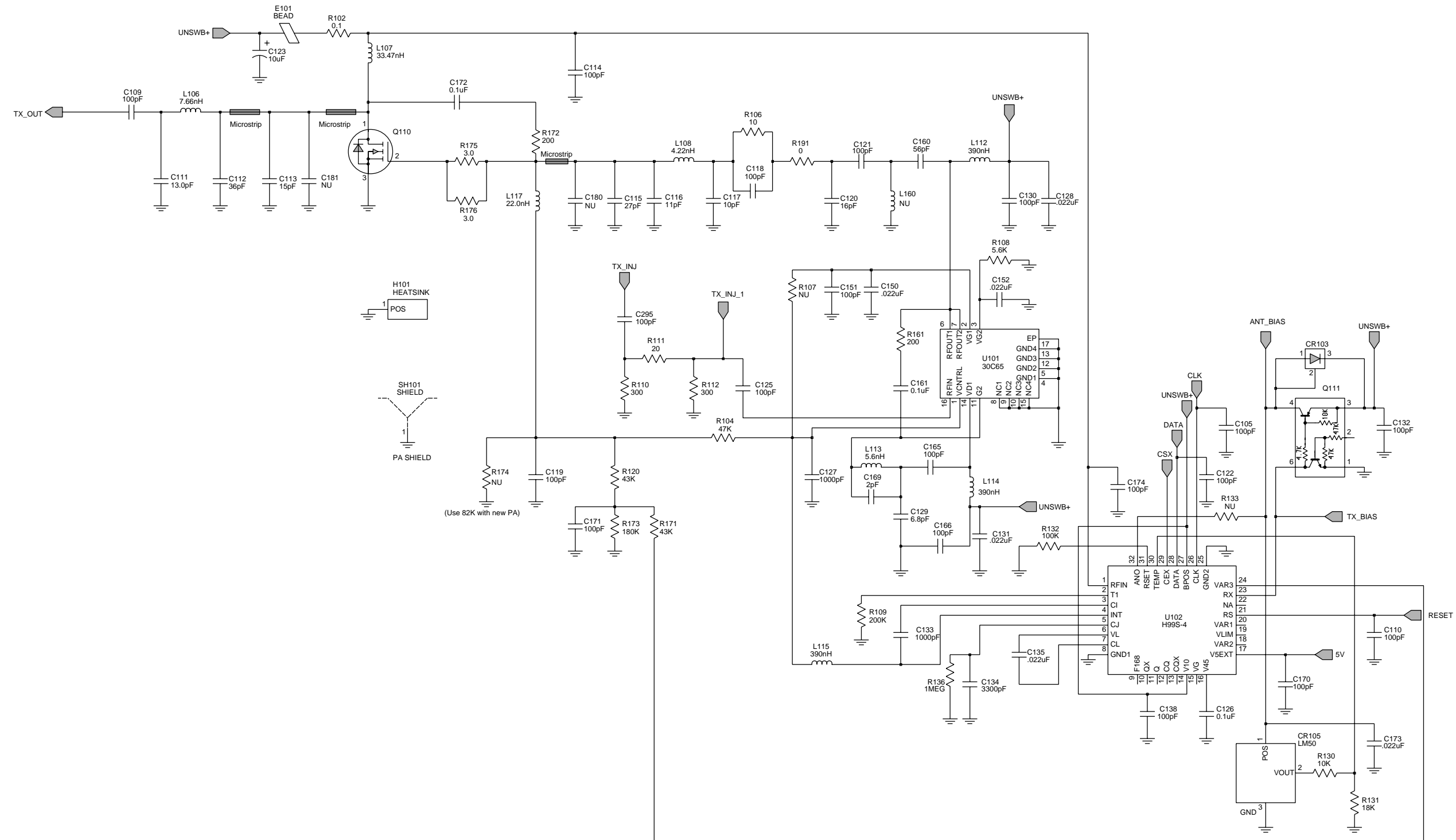


Figure 9-134. UHF (450-527 MHz) Transmitter Schematic Diagram

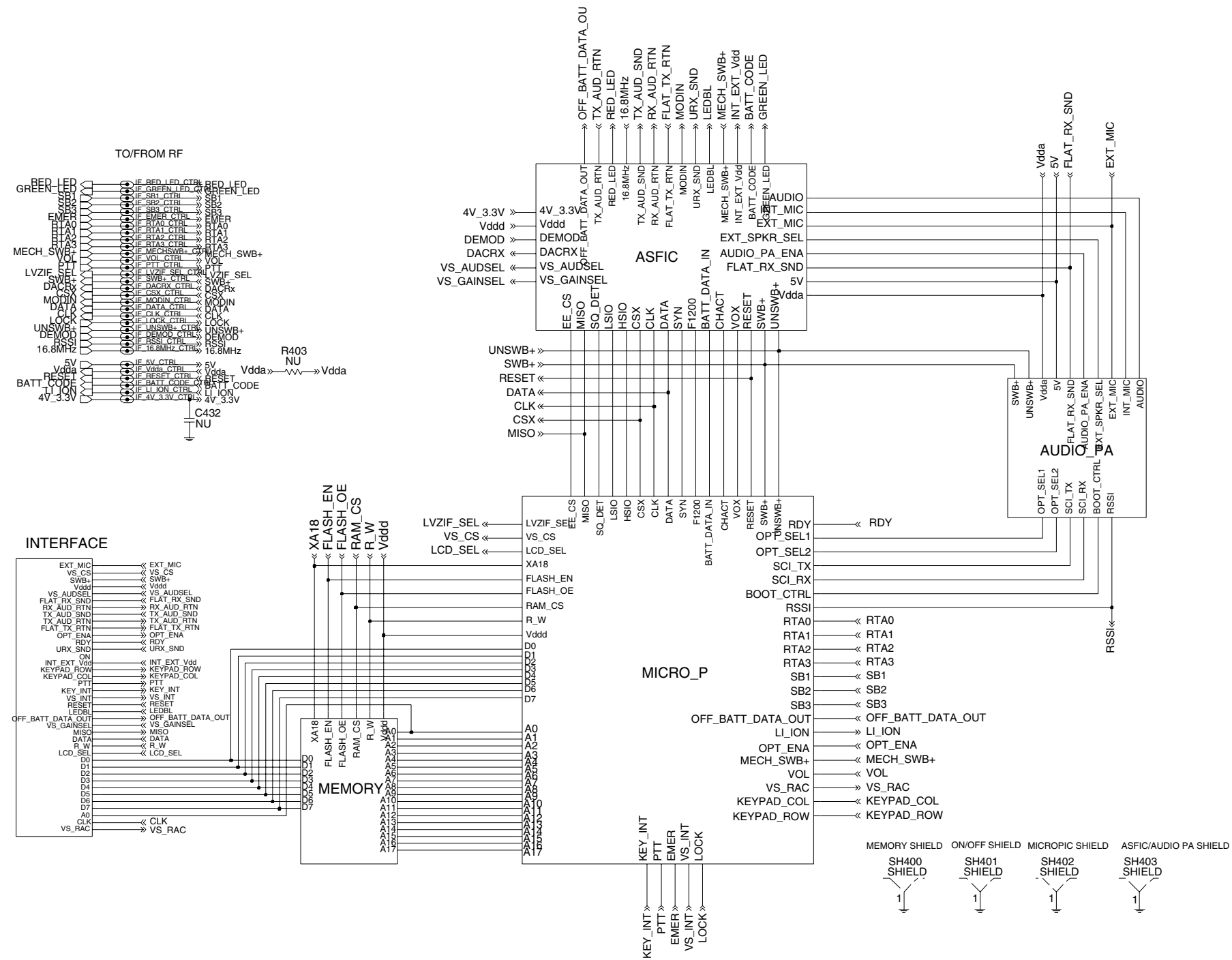


Figure 9-135. UHF (450-527 MHz) Complete Controller Schematic Diagram

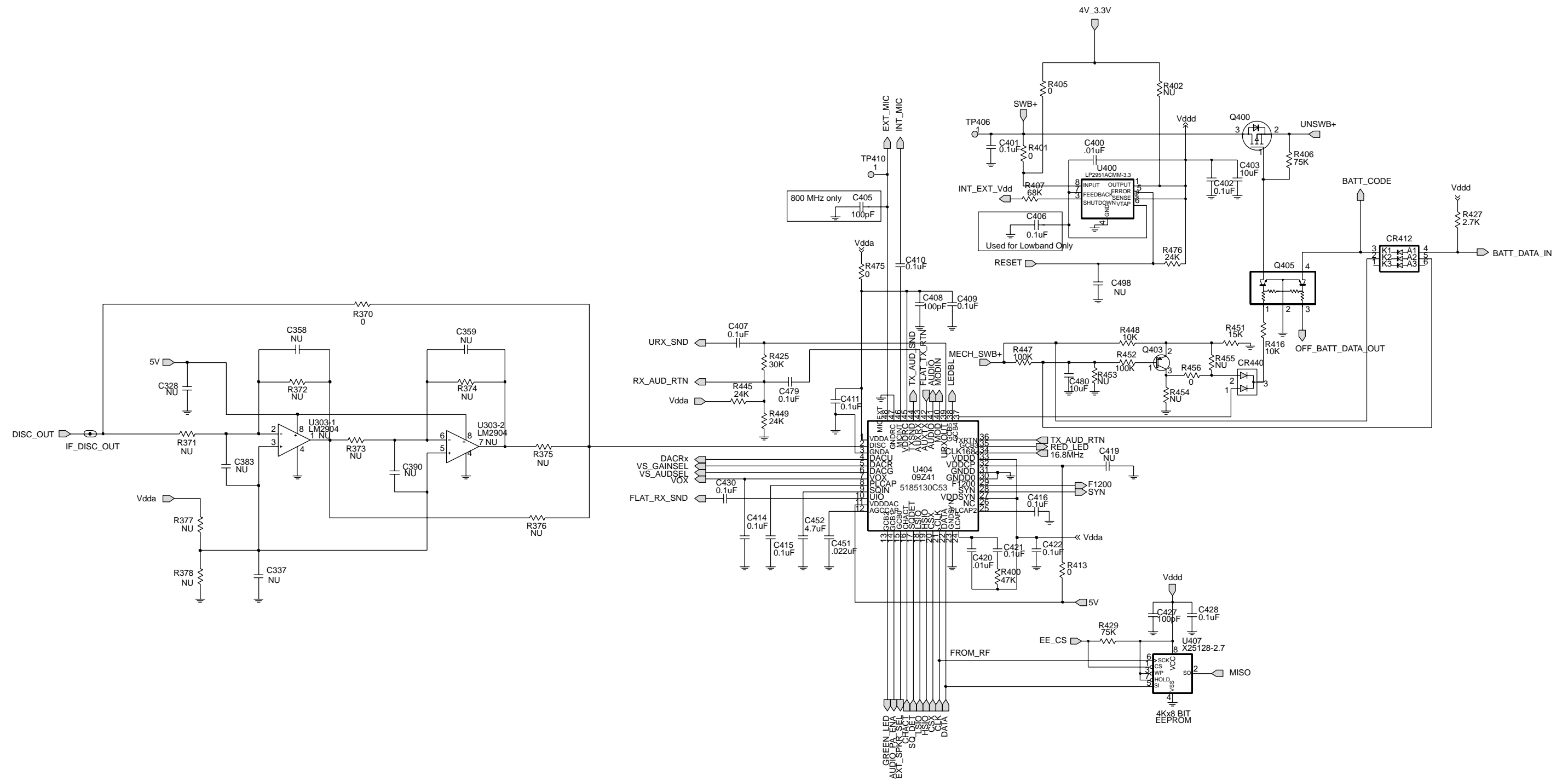


Figure 9-136. UHF (450-527 MHz) Controller ASFIC/ON_OFF Schematic Diagram

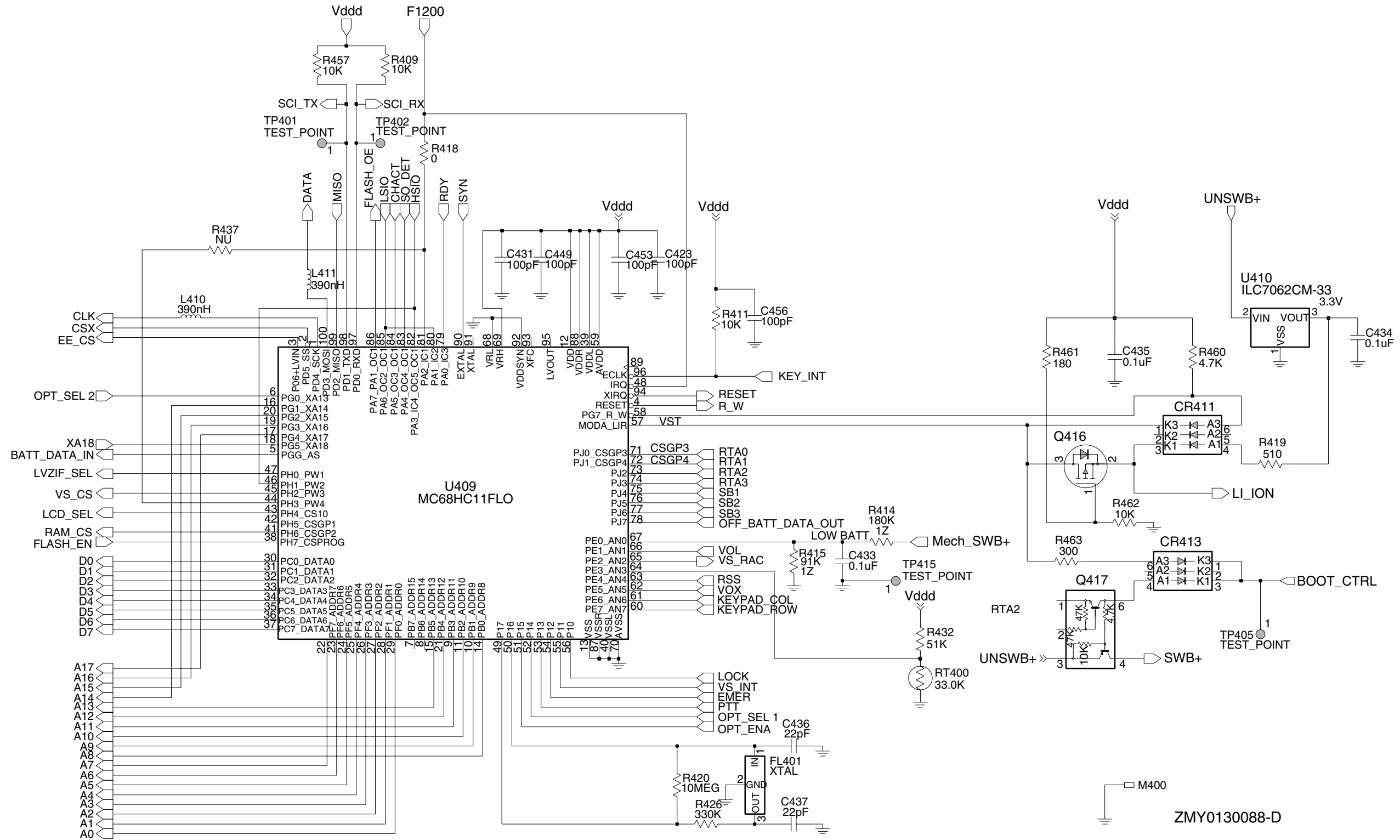
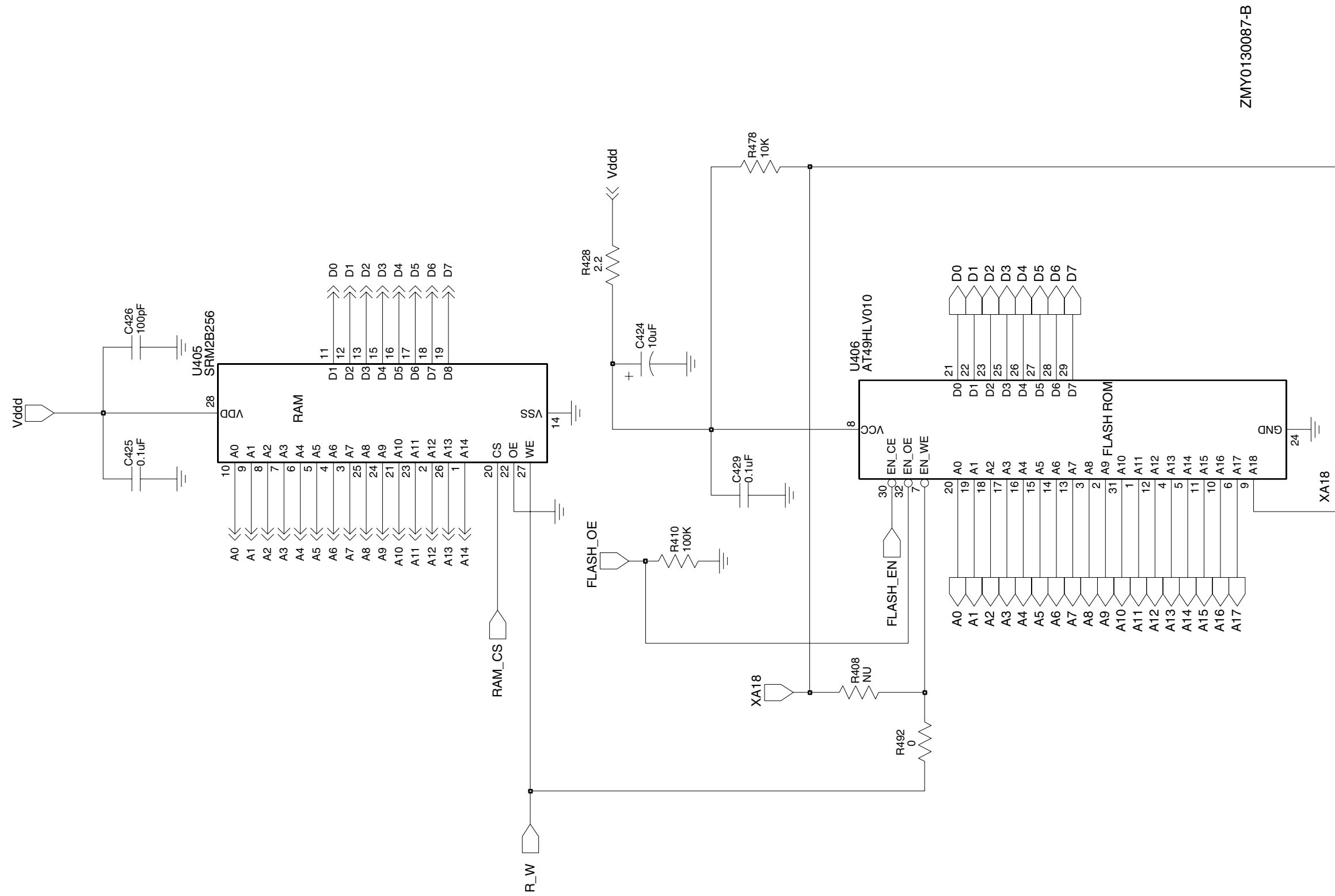


Figure 9-137. UHF (450-527 MHz) Controller Microprocessor Schematic Diagram



ZMY0130087-B

Figure 9-138. UHF (450-527 MHz) Controller Memory Schematic Diagram

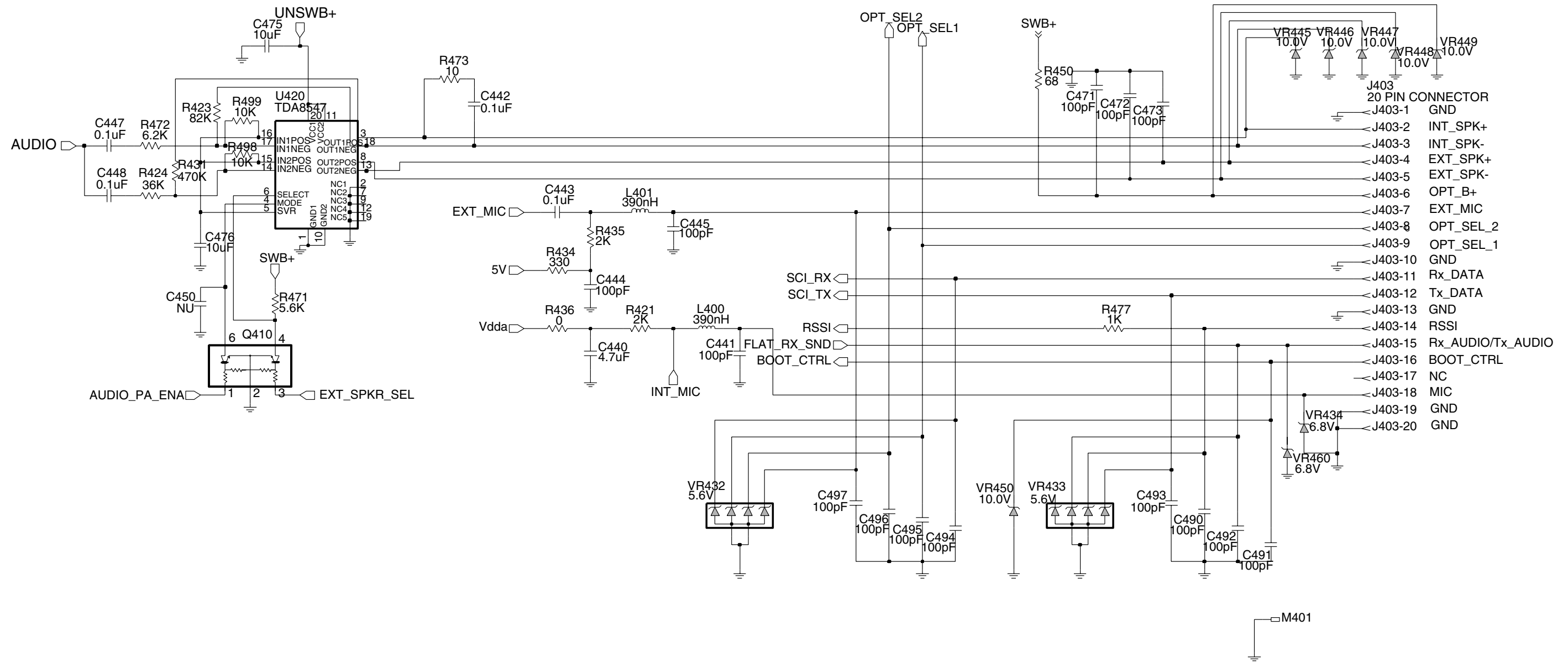


Figure 9-139. UHF (450-527 MHz) Controller Audio Power Amplifier Schematic Diagram

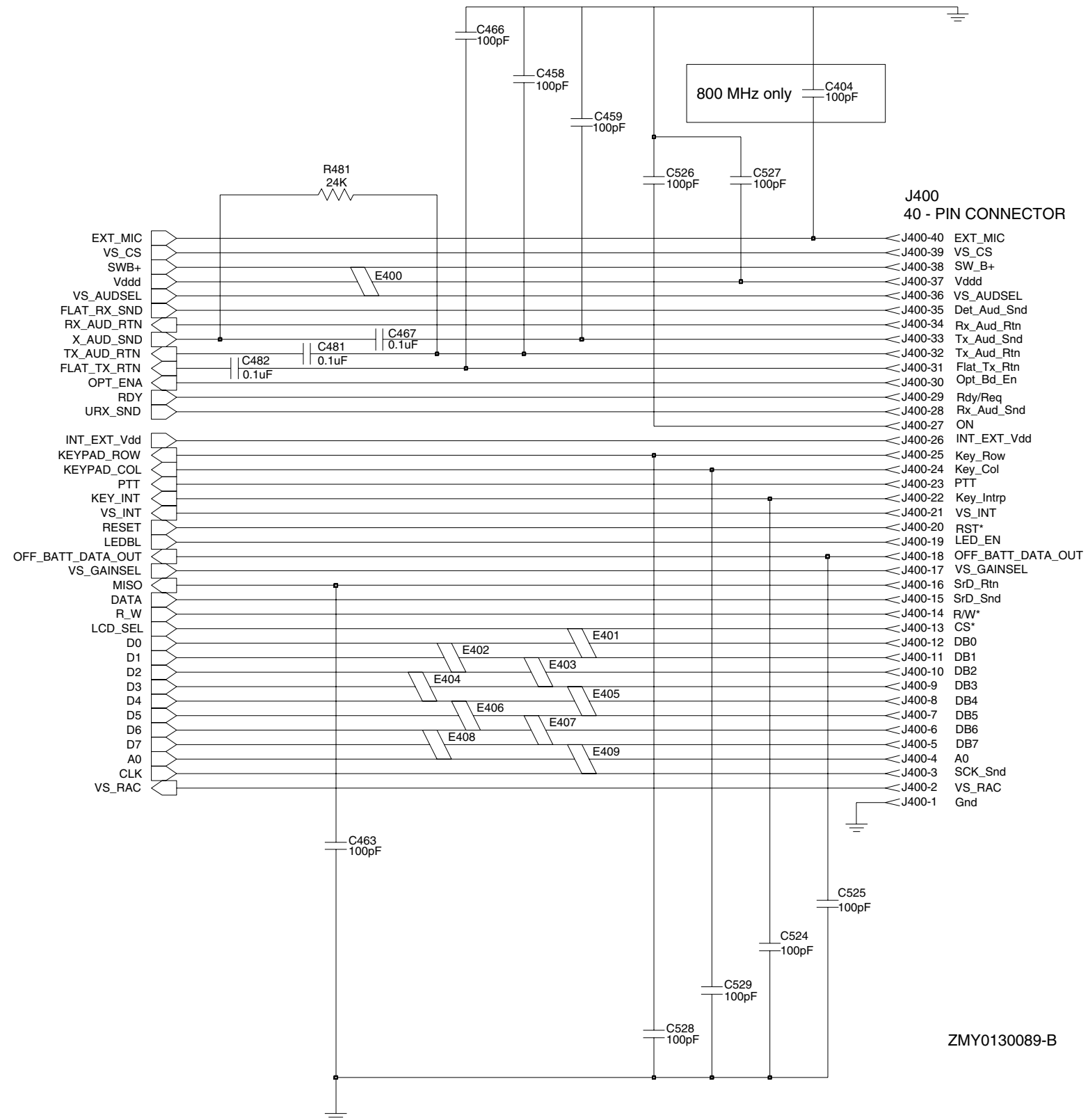


Figure 9-140. UHF (450-527 MHz) Controller Interface Schematic Diagram

**UHF (450-527 MHz) Radio Parts List
(PCB 8486686Z02)**

Circuit Ref	Motorola Part No.	Description
B501	0986237A02	Battery Contact Module
B503	3980502Z01	Backup Contact, B +
B504	3980501Z01	Backup Contact, B -
C101	2113740F51	100pF
C102	2113740F22	6.2pF
C103	2113740F28	11pF
C104	2113740F22	6.2pF
C105	2113743N50	100pF
C106	2113740F19	4.7pF
C107	2113740F15	3.3pF
C108	2113743N50	100pF
C109	2113740F51	100pF
C110	2113743N50	100pF
C111	2103689A22	11pF
C112	2180605Z28	33pF
C113	2180605Z20	15pF
C114	2113743N50	100pF
C115	2113743N31	16pF
C116	2113743N27	11pF
C117	NOTPLACED	
C118	2113743N50	100pF
C119	2113743N50	100pF
C120	2113743N23	7.5pF
C121	2113743N50	100pF
C122	2113743N50	100pF
C123	2311049A96	33uF
C125	2113743N50	100pF
C126	2113743M24	100000pF
C127	2113743L17	1000pF
C128	2113743M08	22000pF
C129	2113743N23	7.5pF
C130	2113743N50	100pF
C131	2113743M08	22000pF
C132	2113743N50	100pF
C133	2113743L17	1000pF
C134	2113743L29	3300pF
C135	2113743M08	22000pF
C138	2113743N50	100pF
C140	0662057A67	5600
C141	2113740F25	8.2pF
C150	2113743M08	22000pF
C151	2113743N50	100pF
C152	2113743M08	22000pF
C160	2113743N44	56pF
C161	2113743M24	100000pF
C165	2113743N44	56pF
C166	2113743N50	100pF
C169	2113743N09	2pF
C170	2113743N50	100pF

Circuit Ref	Motorola Part No.	Description
C171	2113743N50	100pF
C172	2113743E20	0.1uF
C173	2113743M08	22000pF
C174	2113743N50	100pF
C180	NOTPLACED	
C181	NOTPLACED	
C188	2113743N39	36pF
C201	2113743N50	100pF
C202	2113743L17	1000pF
C203	2311049A56	4.7uF
C204	2104993J02	2.2uF
C206	2113740F63	330pF
C207	2113743N40	39pF
C208	NOTPLACED	
C210	2113743N50	100pF
C211	2113743N50	100pF
C212	2113743N50	100pF
C213	2113743N50	100pF
C214	2113743N50	100pF
C217	2104993J02	2.2uF
C218	2113743M24	100000pF
C219	2113743K16	0.22uF
C220	2113743N50	100pF
C223	2113743M24	100000pF
C224	2113743M24	100000pF
C228	2311049J11	4.7uF
C229	2113743L17	1000pF
C230	2113743N50	100pF
C231	2113743M24	100000pF
C232	2113743E12	0.047uF
C233	2311049A01	0.1uF
C234	2311049A05	0.47uF
C235	2104993J02	2.2uF
C238	2113741F17	470pF
C241	2113743N50	100pF
C242	2113743N17	4.3pF
C243	2113743N17	4.3pF
C244	2113740F14	3pF
C245	2113743N12	2.7pF
C246	2113743N50	100pF
C247	2113743N50	100pF
C248	2113743M24	100000pF
C250	2113743N17	4.3pF
C251	2113743N50	100pF
C252	2113743N19	5.1pF
C253	2113740F09	1.8pF
C254	2113743N26	10pF
C255	2113743N50	100pF
C256	2113743N19	5.1pF
C257	2113743N50	100pF
C258	2113743L41	10000pF

Circuit Ref	Motorola Part No.	Description
C259	2113743L41	10000pF
C260	2113743N50	100pF
C263	2113743N02	0.75pF
C264	2113743N50	100pF
C265	NOTPLACED	
C271	NOTPLACED	
C272	2109445U01	0.5pF
C273	2113743M24	100000pF
C276	2104993J02	2.2uF
C277	2113743N50	100pF
C278	2311049A57	10uF
C279	2104993J02	2.2uF
C281	2113743N50	100pF
C282	NOTPLACED	
C283	NOTPLACED	
C285	2113743N50	100pF
C286	2113743M24	100000pF
C289	2113743N50	100pF
C291	2311049A69	10uF
C292	2113743M24	100000pF
C293	2113743A27	0.47uF
C294	2113743N50	100pF
C295	2113743N50	100pF
C296	2113743M24	100000pF
C297	2113743L41	10000pF
C298	2113743M24	100000pF
C301	2113743N24	8.2pF
C302	2113743N28	12pF
C303	2113740L09	4.3pF
C304	2113743N27	11pF
C305	2113743N50	100pF
C306	NOTPLACED	
C307	2113743N50	100pF
C308	2113743N50	100pF
C309	2113743N50	100pF
C310	2113743N50	100pF
C311	NOTPLACED	
C312	2113743N23	7.5pF
C313	2113743N27	11pF
C314	2113743M24	100000pF
C315	2113743N50	100pF
C316	2113740L09	4.3pF
C317	2113743N65	8pF
C318	2113743N28	12pF
C319	2113743N17	4.3pF
C320	2113743N25	9.1pF
C321	2113743N50	100pF
C322	2113743N48	82pF
C324	2109445U40	20pF
C325	2109445U26	9.1pF
C326	2113743M24	100000pF

Circuit Ref	Motorola Part No.	Description
C327	2113743M24	100000pF
C328	2113743M24	100000pF
C329	2113743M24	100000pF
C334	2113743L33	4700pF
C337	NOTPLACED	
C338	NOTPLACED	
C343	2113743M24	100000pF
C344	2113743E20	0.1uF
C345	2113743M24	100000pF
C346	2113743M24	100000pF
C347	2113743M24	100000pF
C348	2113743M24	100000pF
C349	2113743E20	0.1uF
C350	2113743M24	100000pF
C351	2113743N52	120pF
C352	2113743M24	100000pF
C355	2113743M24	100000pF
C357	2113743M24	100000pF
C358	NOTPLACED	
C359	NOTPLACED	
C360	2113743N14	3.3pF
C361	2113743M24	100000pF
C362	2113743M24	100000pF
C364	2113743N35	24pF
C366	NOTPLACED	
C367	2113743N37	30pF
C370	2109445U18	4.3pF
C371	NOTPLACED	
C372	2113743N50	100pF
C373	NOTPLACED	
C374	2113743N50	100pF
C375	2113743N50	100pF
C378	NOTPLACED	
C380	2113743L41	10000pF
C381	NOTPLACED	
C382	2311049A59	10uF
C383	NOTPLACED	
C385	2113743N35	24pF
C386	2113743N50	100pF
C390	NOTPLACED	
C400	2113743L41	10000pF
C401	2113743M24	100000pF
C402	2113743M24	100000pF
C403	2113743G24	2.2uF
C404	NOTPLACED	
C405	2113743N50	100pF
C406	NOTPLACED	
C407	2113928N01	0.1uF
C408	2113743N50	100pF
C409	2113743M24	100000pF
C410	2113928N01	0.1uF

Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description
C411	2113743M24	100000pF	C490	2113743N50	100pF	CR503	4805729G49	Red/Yellow LED	L261	2462587V29	39nH
C414	2113743M24	100000pF	C491	2113743N50	100pF	E101	2484657R01	Ferrite Bead	L271	2462587V27	27nH
C415	2185895Z01	0.01uF	C492	2113743N50	100pF	E400	2480640Z01	Ferrite Bead	L273	2462587V32	68nH
C416	2113928N01	0.1uF	C493	2113743N50	100pF	E401	2480640Z01	Ferrite Bead	L281	2462587V41	390nH
C419	NOTPLACED		C494	2113743N50	100pF	E402	2480640Z01	Ferrite Bead	L282	2462587V41	390nH
C420	2113743L41	10000pF	C495	2113743N50	100pF	E403	2480640Z01	Ferrite Bead	L301	2479990B01	11.03nH
C421	2113928N01	0.1uF	C496	2113743N50	100pF	E404	2480640Z01	Ferrite Bead	L302	2479990B01	11.03nH
C422	2113743M24	100000pF	C497	2113743N50	100pF	E405	2480640Z01	Ferrite Bead	L303	2462587V26	22nH
C423	2113743N50	100pF	C498	NOTPLACED		E406	2480640Z01	Ferrite Bead	L304	2462587V37	180nH
C424	2311049A59	10uF	C502	2311049A05	0.47uF	E407	2480640Z01	Ferrite Bead	L305	2462587V23	12nH
C425	2113743M24	100000pF	C503	2113743N50	100pF	E408	2480640Z01	Ferrite Bead	L306	2479990B01	11.03nH
C426	2113743N50	100pF	C505	2113743N50	100pF	E409	2480640Z01	Ferrite Bead	L307	2479990B01	11.03nH
C427	2113743N50	100pF	C511	2113743N50	100pF	F501	6580542Z01	Fuse 3A	L309	2479990C02	16.28nH
C428	2113743M24	100000pF	C512	2113743N50	100pF	FL201	4805875Z04	16.8 MHz Xtal Filter	L310	2462587V36	150nH
C429	2113743M24	100000pF	C513	2113743N50	100pF	FL301	9180022M11	Xtal Filter 44.85MHz	L311	2413926K32	560nH
C430	2113928N01	0.1uF	C514	2113743N50	100pF	FL302	9180468V05	455kHz 4-pole ceramic filter	L321	2462587V37	180nH
C431	2113743N50	100pF	C514	2113743N50	100pF	FL303	9180469V05	455kHz 6-pole ceramic filter	L325	2462587N68	1000nH
C432	NOTPLACED		C520	2113743L41	10000pF	FL304	9180469V03	455kHz 6-pole ceramic filter	L330	2413926K33	680nH
C433	2113743L41	10000pF	C521	2113743L41	10000pF	FL401	4870368G02	Real Time Clock Xtal Oscillator 38.4kHz (not placed in PRO5450)	L332	2413923A25	1200nH
C434	2113928N01	0.1uF	C522	2113743L41	10000pF	H101	2680499Z01	Heat Spreader	L400	2462587Q42	390nH
C435	2113743M24	100000pF	C523	2113743L41	10000pF	J101	0985613Z01	RF Jack	L401	2462587Q42	390nH
C436	2113743N34	22pF	C524	2113743N50	100pF	J102	0280519Z02	Antenna Nut	L410	2462587Q42	390nH
C437	2113743N34	22pF	C525	2113743N50	100pF	J400	0905505Y04	40-Pin Connector	L411	2462587Q42	390nH
C440	2113743G26	4.7uF	C526	2113743N50	100pF	J403	0905505Y02	20-Pin Connector	L505	2462587Q42	390nH
C441	2113743N50	100pF	C527	2113743N50	100pF	L101	2460591B28	13.37nH	P100	3905643V01	Ground Contact Finger
C442	2113743E20	0.1uF	C528	2113743N50	100pF	L102	2460591B28	13.37nH	PB501	4086470Z01	Tactile Switch
C443	2113928N01	0.1uF	C529	2113743N50	100pF	L104	2460591B48	15.22 nH	PB502	4086470Z01	Tactile Switch
C444	2113743N50	100pF	CR101	4880973Z02	Pin Diode	L105	2462587N22	390nH	PB503	4086470Z01	Tactile Switch
C445	2113743N50	100pF	CR102	4802245J41	Pin Diode	L106	2460591A19	8.71nH	PB504	4086470Z01	Tactile Switch
C447	2113743M08	22000pF	CR103	4802245J41	Pin Diode	L107	2479990G01	33.47nH	PB505	4086470Z01	Tactile Switch
C448	2113928N01	0.1uF	CR105	5185963A15	Temperature Sensor	L108	2479990A01	4.22nH	Q110	4813828A09	RF PA
C449	2113743N50	100pF	CR160	NOTPLACED		L112	2462587N42	12nH	Q111	4809939C05	Dual NPN/PNP Transistor
C450	NOTPLACED		CR201	4802233J09	Triple Diode	L113	2413926H09	5.6nH	Q210	4809939C05	Dual NPN/PNP Transistor
C451	2113743M08	22000pF	CR203	4862824C03	Varactor	L114	2462587N42	12nH	Q241	4805218N63	RF NPN Transistor
C452	2113743B29	1uF	CR241	4805649Q13	Varactor	L115	2462587N22	390nH	Q260	4809939C05	Dual NPN/PNP Transistor
C453	2113743N50	100pF	CR242	4862824C01	Varactor	L116	2479990C02	16.28nH	Q261	4809939C05	Dual NPN/PNP Transistor
C456	2113743N50	100pF	CR243	4862824C01	Varactor	L117	2409154M17	22nH	Q301	4802245J44	NPN Transistor
C458	2113743N50	100pF	CR251	4802245J22	Varactor	L160	2413926H14	15nH	Q302	4802197J95	NPN Transistor
C459	2113743N50	100pF	CR301	4862824C01	Varactor	L201	2462587Q20	2200nH	Q310	4802245J44	NPN Transistor
C463	2113743N50	100pF	CR302	4862824C01	Varactor	L202	2462587Q20	2200nH	Q320	4813824A10	RF NPN transistor
C466	2113743N50	100pF	CR303	4880154K03	Dual Schottky Diode	L203	2462587Q20	2200nH	Q400	4809579E18	MOSFET P-Channel
C467	2113928N01	0.1uF	CR304	4862824C01	Varactor	L232	2462587P25	12000nH	Q403	4813824A17	PNP Transistor
C471	2113743N50	100pF	CR305	4862824C01	Varactor	L241	2462587V41	390nH	Q405	4802245J54	Dual NPN Transistor
C472	2113743L09	470pF	CR306	4802245J42	Ring Quad Diode	L242	2462587V26	22nH	Q410	4802245J54	Dual NPN Transistor
C473	2113743L09	470pF	CR311	4813825A19	Diode Schottky	L243	2485776Z02	Multi-layered Teflon resonator, Rx	Q416	4809579E18	MOSFET P-Channel (not placed in PRO5450)
C475	2113743H14	10uF	CR312	4802245J97	Switch Diode	L251	2462587V41	390nH	Q417	4809939C05	DUAL NPN/PNP Transistor
C476	2113928D08	10uF	CR313	4802245J97	Switch Diode	L253	2460593C03	Multi-layered Teflon resonator, Tx	Q502	5180159R01	Dual NPN Transistor
C479	2113928N01	0.1uF	CR411	4802245J62	Diode Schottky				Q505	4880214G02	NPN Transistor
C480	2113928D08	10uF	CR412	4802245J62	Diode Schottky				R101	0662057A34	240
C481	2113928N01	0.1uF	CR413	4802245J62	Diode Schottky				R102	0680539Z01	0.1
C482	2113928N01	0.1uF	CR440	4813833C02	Dual Common Cathode Diode						
			CR501	4880107R01	Rectifier						

Circuit Ref	Motorola Part No.	Description
R104	0662057N15	47K
R106	0662057M26	10
R107	NOTPLACED	
R108	0662057M92	5600
R109	0662057N30	200K
R110	0662057M61	300
R111	0662057M33	20
R112	0662057M61	300
R120	0662057N14	43K
R130	0662057M98	10K
R131	0662057N05	18K
R132	0662057N33	270K
R133	NOTPLACED	
R136	NOTPLACED	
R161	0662057M57	200
R170	0662057A34	240
R171	0662057N14	43K
R172	0662057A32	200
R173	0662057N29	180K
R174	0662057N15	47K
R175	0662057B59	3
R176	0662057B59	3
R191	0662057C01	0
R201	0662057N21	82K
R202	0662057N23	100K
R204	0662057N15	47K
R231	0662057M52	120
R232	0662057M69	620
R233	0662057M68	560
R241	0662057M34	22
R242	0662057M52	120
R243	0662057M98	10K
R244	0662057N03	15K
R245	0662057M59	240
R248	0662057M37	30
R251	0662057M38	33
R252	0662057M60	270
R253	0662057M95	7500
R254	0662057M96	8200
R255	0662057M89	4300
R256	0662057M37	30
R260	0662057M74	1000
R281	NOTPLACED	
R301	0662057N23	100K
R302	0662057N23	100K
R303	0662057M78	1500
R304	0662057N01	12K
R305	0662057M66	470
R306	0662057N23	100K
R307	0662057N23	100K
R308	0662057M43	51

Circuit Ref	Motorola Part No.	Description
R309	0662057M01	0
R310	NOTPLACED	
R311	0662057N11	33K
R312	0662057M90	4700
R313	0662057M62	330
R314	0662057M79	1600
R315	0662057N01	12K
R320	NOTPLACED	
R321	0662057N01	12K
R322	0662057M74	1000
R324	0662057N25	120K
R328	0662057M12	2.7
R329	0662057M01	0
R330	0662057M98	10K
R331	0662057M57	200
R332	0662057N01	12K
R333	NOTPLACED	
R339	0662057M89	4300
R340	0662057M96	8200
R342	0662057N23	100K
R344	0662057M43	51
R345	0662057N13	39K
R346	0662057N03	15K
R348	0662057M87	3600
R349	0662057C01	0
R350	0662057M98	10K
R355	0662057N23	100K
R358	0662057M74	1000
R359	NOTPLACED	
R360	0662057N06	20K
R361	0662057N06	20K
R363	0662057M64	390
R364	0662057M80	1800
R365	0662057M76	1200
R366	0662057N01	12K
R367	0662057V04	12K
R368	0662057V02	10K
R369	0662057M70	680
R370	0662057M01	0
R371	NOTPLACED	
R372	NOTPLACED	
R373	NOTPLACED	
R374	NOTPLACED	
R375	NOTPLACED	
R376	NOTPLACED	
R377	NOTPLACED	
R378	NOTPLACED	
R400	0662057N15	47K
R401	0662057M01	0
R402	NOTPLACED	
R403	NOTPLACED	

Circuit Ref	Motorola Part No.	Description
R405	0662057M01	0
R406	0662057N20	75K
R407	0662057N19	68K
R408	NOTPLACED	
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
R420	0662057B46	10M
R421	0662057M81	2000
R423	0662057N39	470K
R424	0662057N12	36K
R425	0662057N10	30K
R426	0662057N35	330K
R427	0662057M84	2700
R428	0662057M10	2.2
R429	0662057N20	75K
R431	0662057N39	470K
R432	0662057N16	51K
R434	0662057M62	330
R435	0662057M81	2000
R436	0662057M01	0
R437	NOTPLACED	
R445	0662057N08	24K
R447	0662057N23	100K
R448	0662057M98	10K
R449	0662057N08	24K
R450	0683962T45	68
R451	0662057N03	15K
R452	0662057N23	100K
R453	NOTPLACED	
R454	NOTPLACED	
R455	NOTPLACED	
R456	0662057M01	0
R457	0662057M98	10K
R460	0662057M90	4700
R461	0662057M56	180
R462	0662057M98	10K
R463	0662057M61	300
R471	0662057N06	20K
R472	0662057N12	36K
R473	0662057M26	10
R475	0662057M01	0
R476	0662057N35	330K
R477	0662057M74	1000
R478	0662057M98	10K

Circuit Ref	Motorola Part No.	Description
R481	0662057N08	24K
R492	0662057M01	0
R498	0662057M98	10K
R499	0662057M98	10K
R501	0662057M70	680
R502	0662057M56	180
R505	0662057M98	10K
R506	0662057N15	47K
R507	0662057M01	0
RT400	0680590Z01	Thermistor_33K
S501	4080710Z01	Frequency Switch
S501	4080710Z02	Frequency Switch
S502	1880619Z02	Volume / On-off Switch
SH100	2680507Z01	Harmonic Filter Shield
SH101	2680510Z01	PA Shield
SH201	2680511Z01	Synthesizer Top Shield
SH202	2680511Z01	Synthesizer Bottom Shield
SH241	2604120G01	VCO Resonators Shield
SH242	2680514Z01	VCO Buffer IC Shield
SH301	2686583Z01	Receiver Front-End Shield
SH302	2680555Z01	Receiver Back-End Bottom Shield
SH303	2680509Z01	Mixer Shield
SH304	2680624Z01	Mixer Diode Shield
SH322	2686528Z01	IFIC Shield
SH323	2686527Z01	Crystal Filter Shield
SH400	2680505Z01	Controller Memory Shield
SH401	2680506Z01	Controller On-off Shield
SH402	2680515Z01	Microprocessor Shield
SH403	2680516Z01	Asfic_Cmp, Audio PA Shield
T301	2580541Z02	Balun Transformer
T302	2580541Z02	Balun Transformer
U101	5185130C65	LDMOS PA Driver
U102	5185765B26	PCIC
U201	5185963A27	LVFRACN Synthesizer IC
U210	5102463J61	Inverter
U211	5102463J61	Inverter
U241	5105750U54	VCO Buffer IC
U247	5105739X05	5V Regulator
U248	5102463J58	3.3V Regulator
U301	5186144B01	FM IFIC SA616
U302	5109522E10	LMOS Inverter
U303	NOTPLACED	
U400	5102463J40	3.3V Regulator
U404	5185130C53	ASFIC_CMP IC
U405	5102463J36	Static RAM 32K X 8
U406	*5102463J60	Flash ROM 512K X 8
U407	*5102495J05	EEPROM 16K X 8
U409	5102226J56	Micro Processor
U410	5102463J57	3.3V Regulator
U420	5102463J44	Audio PA

Circuit Ref	Motorola Part No.	Description
VR432	4805656W08	5.6V Zener
VR433	4805656W08	5.6V Zener
VR434	4802245J73	Zener Diode 6.8V
VR439	4880140L17	Zener Diode 12V
VR440	4802245J73	Zener Diode 6.8V
VR441	4802245J73	Zener Diode 6.8V
VR442	4802245J73	Zener Diode 6.8V
VR443	4802245J73	Zener Diode 6.8V
VR444	4802245J73	Zener Diode 6.8V
VR445	4802245J74	Zener Diode 10V
VR446	4802245J74	Zener Diode 10V
VR447	4802245J74	Zener Diode 10V
VR448	4802245J74	Zener Diode 10V
VR449	4802245J74	Zener Diode 10V
VR450	4802245J75	Zener Diode 12V
VR460	4802245J73	Zener Diode 6.8V
VR501	4813830A18	Diode 6.8V
VR506	4802245J73	Zener Diode 6.8V
Y300	4802245J84	Xtal Oscillator 44.395MHz
Y301	9186145B02	455kHz Ceramic Discriminator
	1485777Z01	Insulator (KAPTON)
	8486686Z02	UHF B2 PC Board

* Motorola Depot Servicing only

** Not Field Serviceable

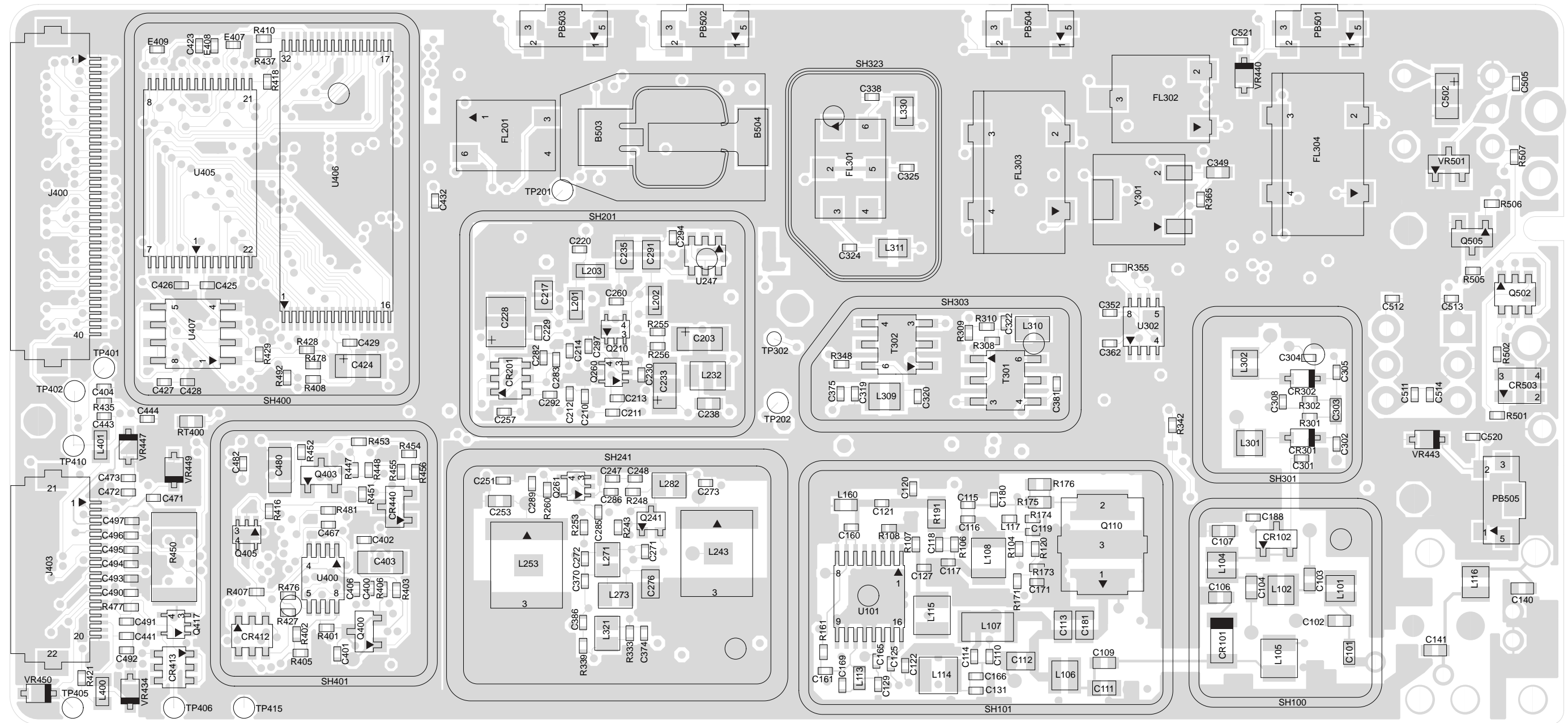
Tolerance

Capacitor - 5% unless specified otherwise

Inductor - 10% unless specified otherwise

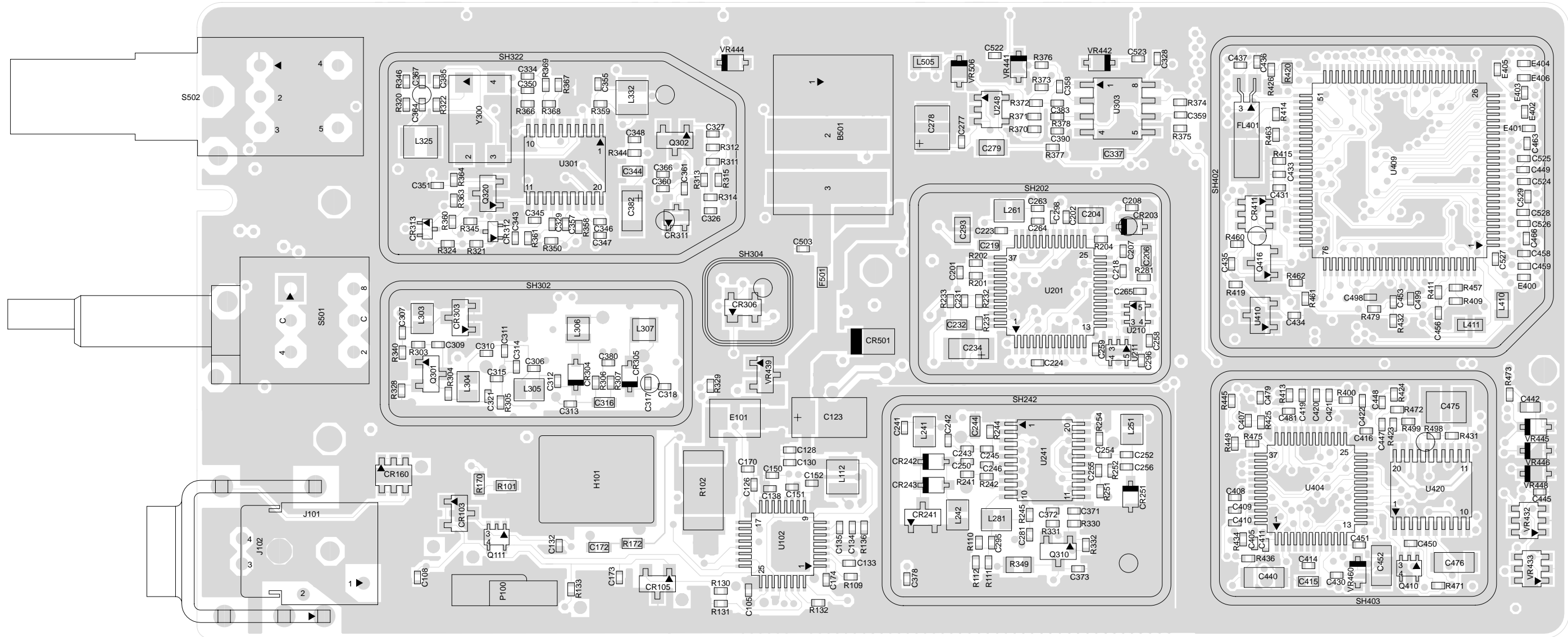
Resistor - 5% unless specified otherwise

9.17 UHF Band 2 Circuit Board/Schematic Diagrams and Parts List (PCB 8415235H01)



ZMY30006-O

Figure 9-141. UHF Band 2 (450-527 MHz) Main Board Top Side PCB No. 8415235H01



ZMY30007-O

Figure 9-142. UHF Band 2 (450-527 MHz) Main Board Bottom Side PCB No. 8415235H01

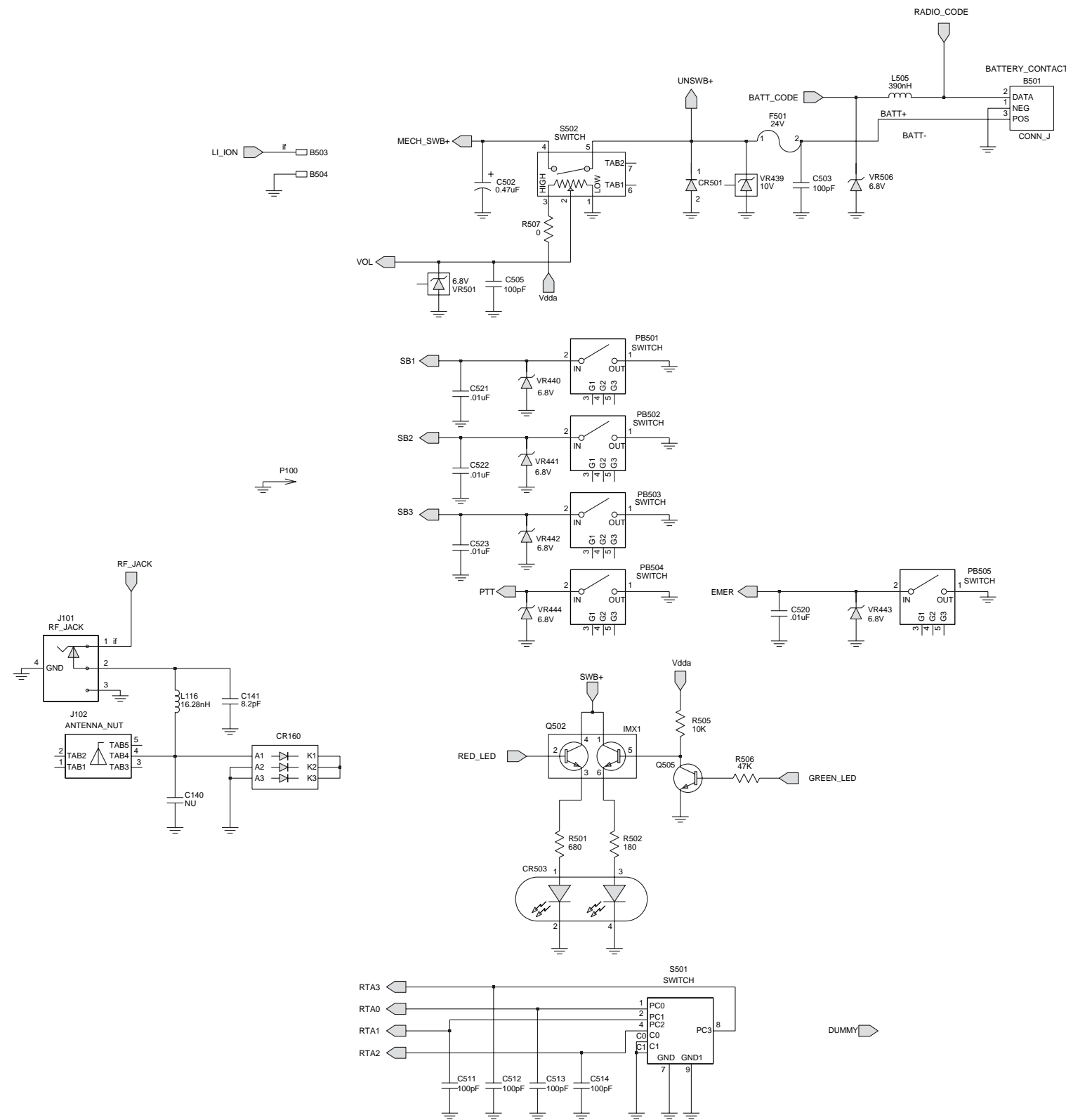


Figure 9-143. UHF Band 2 Controls And Switches Schematic Diagram

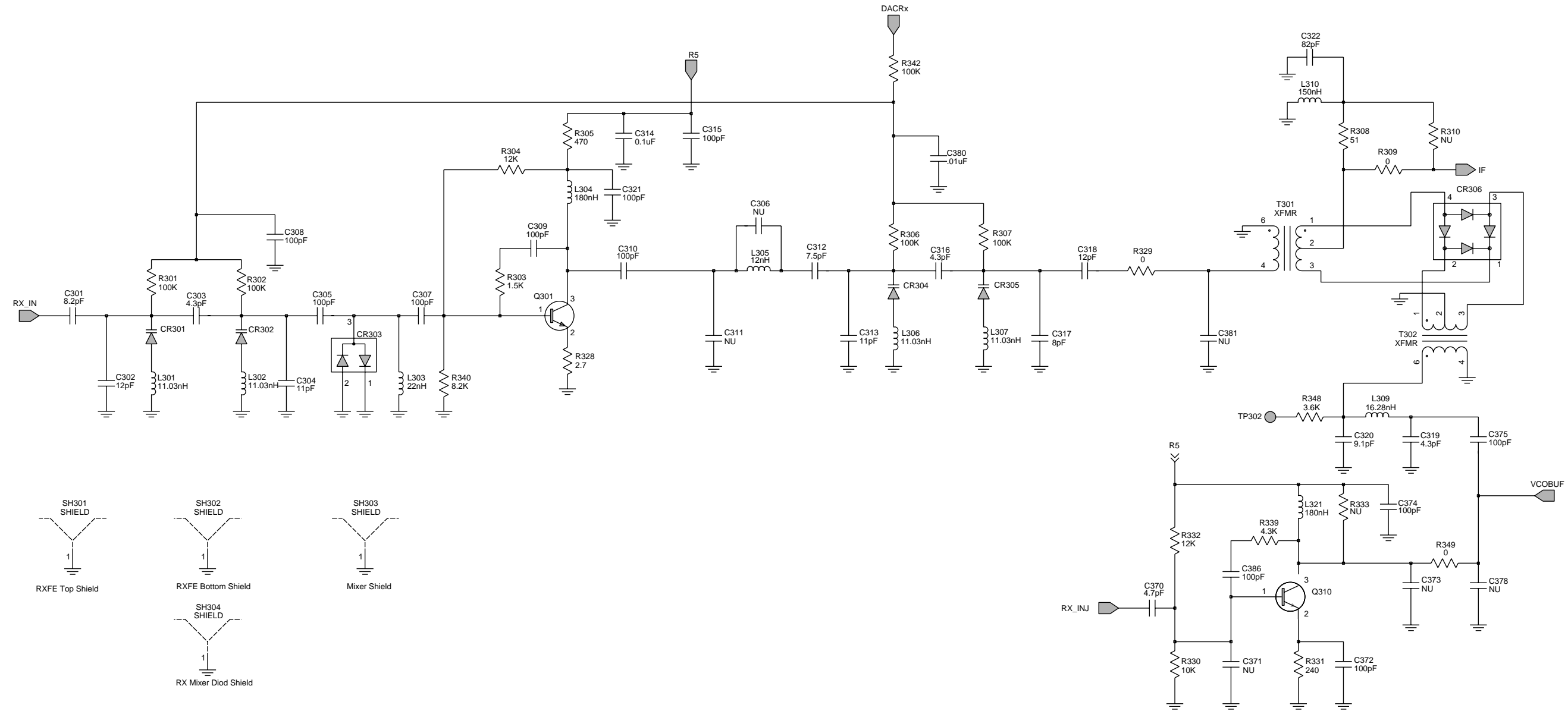


Figure 9-144. UHF Band 2 Receiver Front End Schematic Diagram

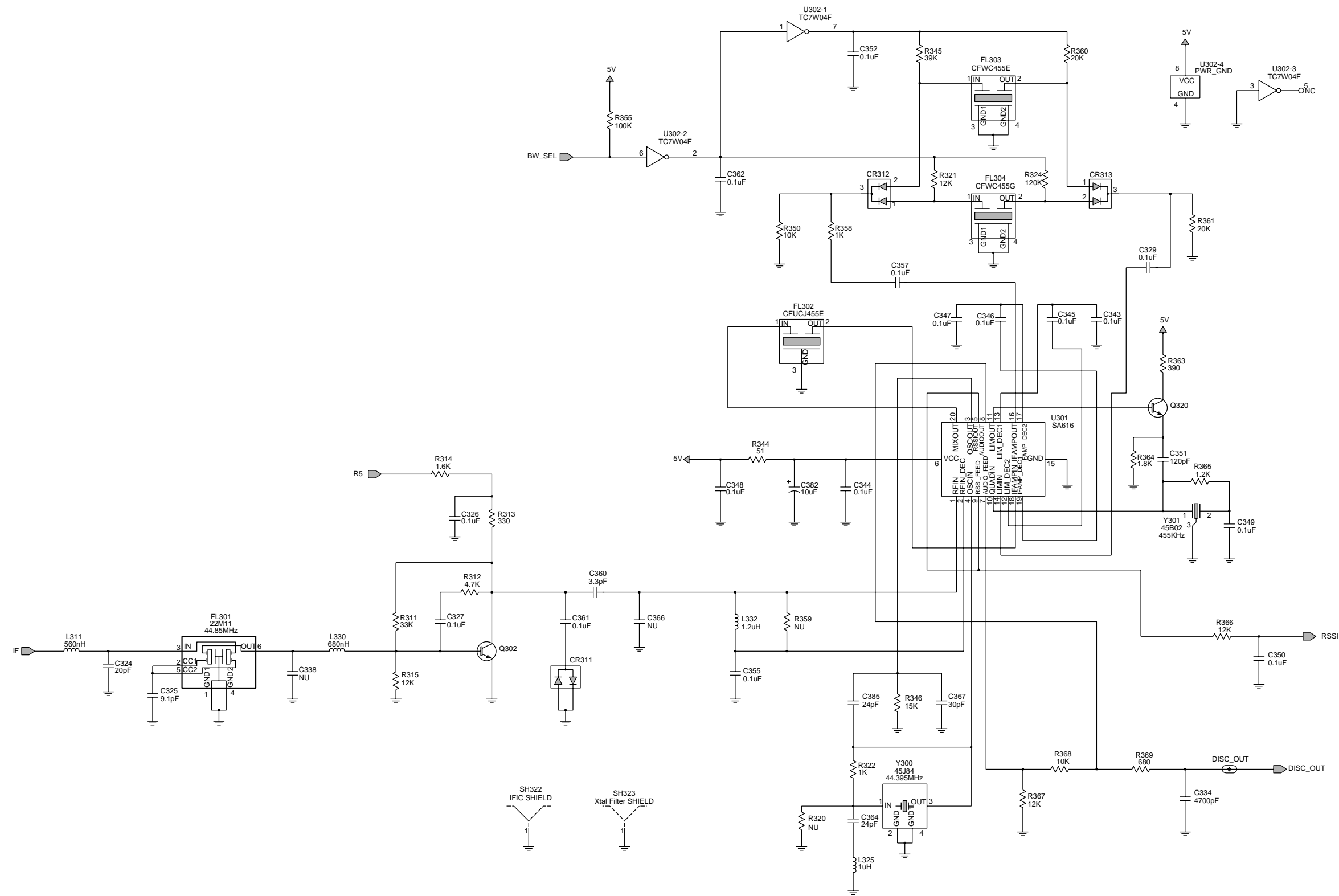


Figure 9-145. UHF Band 2 Receiver Back End Schematic Diagram

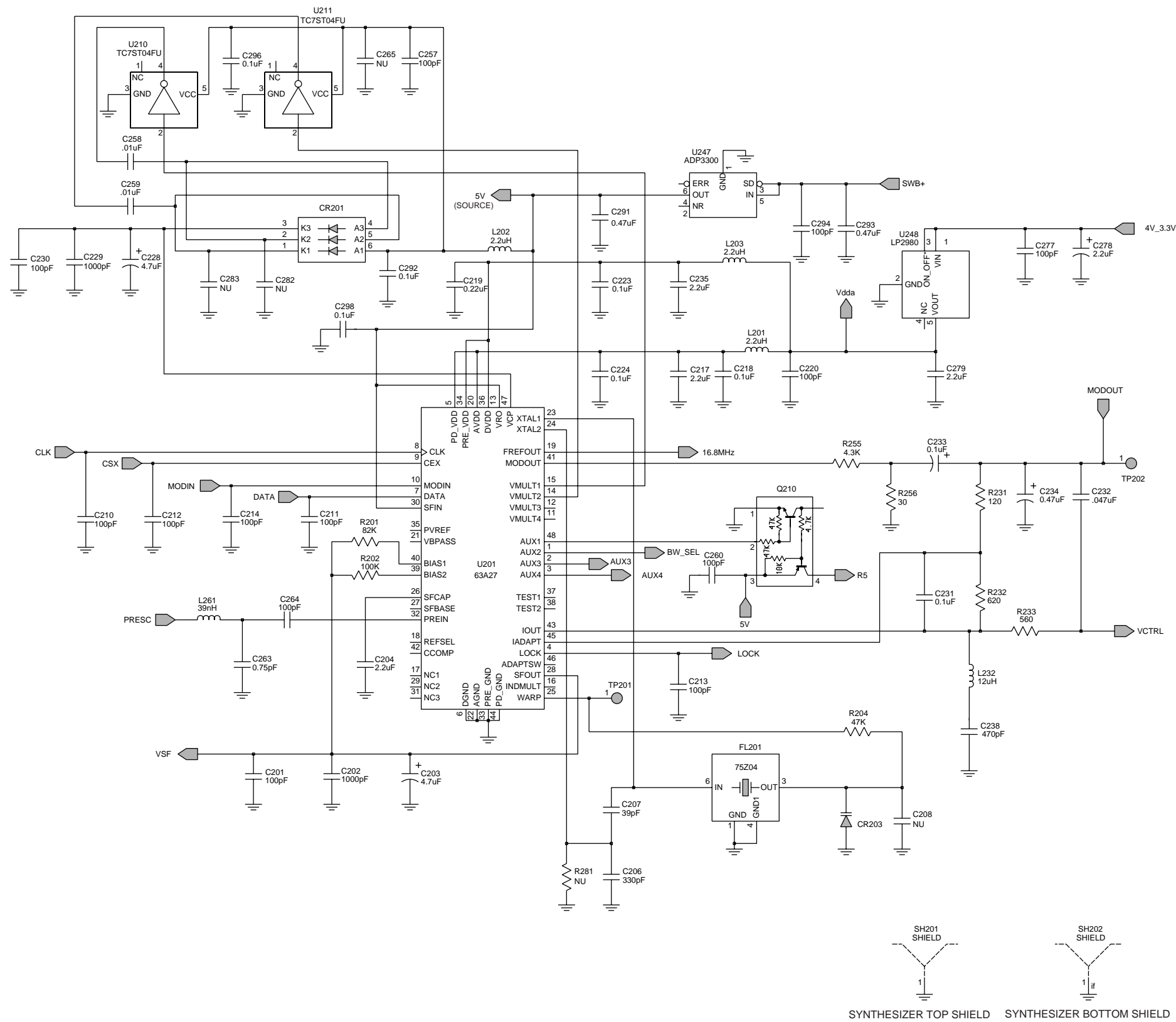


Figure 9-146. UHF Band 2 Synthesizer Schematic Diagram

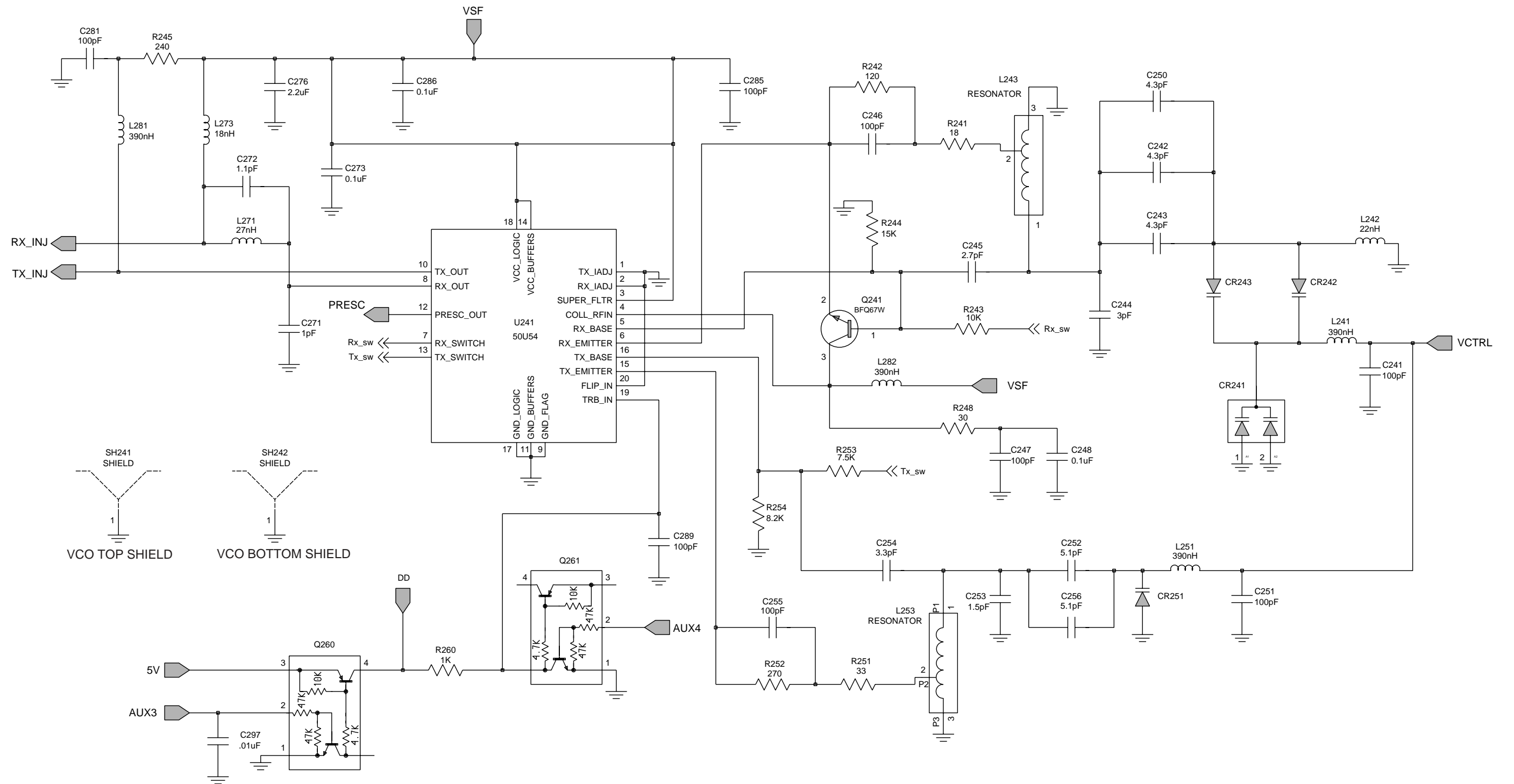


Figure 9-147. UHF Band 2 Voltage Controlled Oscillator Schematic Diagram

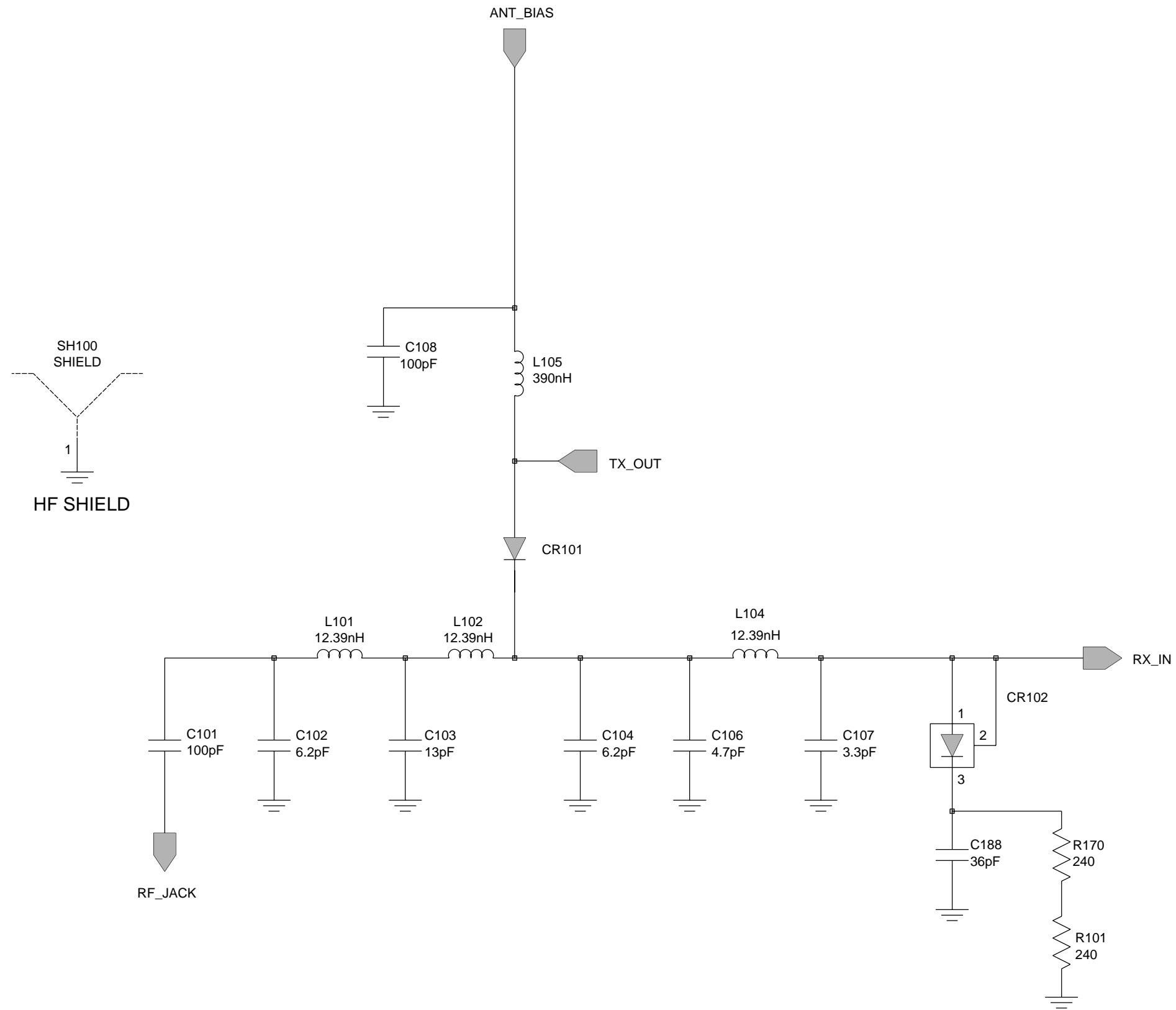


Figure 9-148. UHF Band 2 Harmonic Filter Schematic Diagram

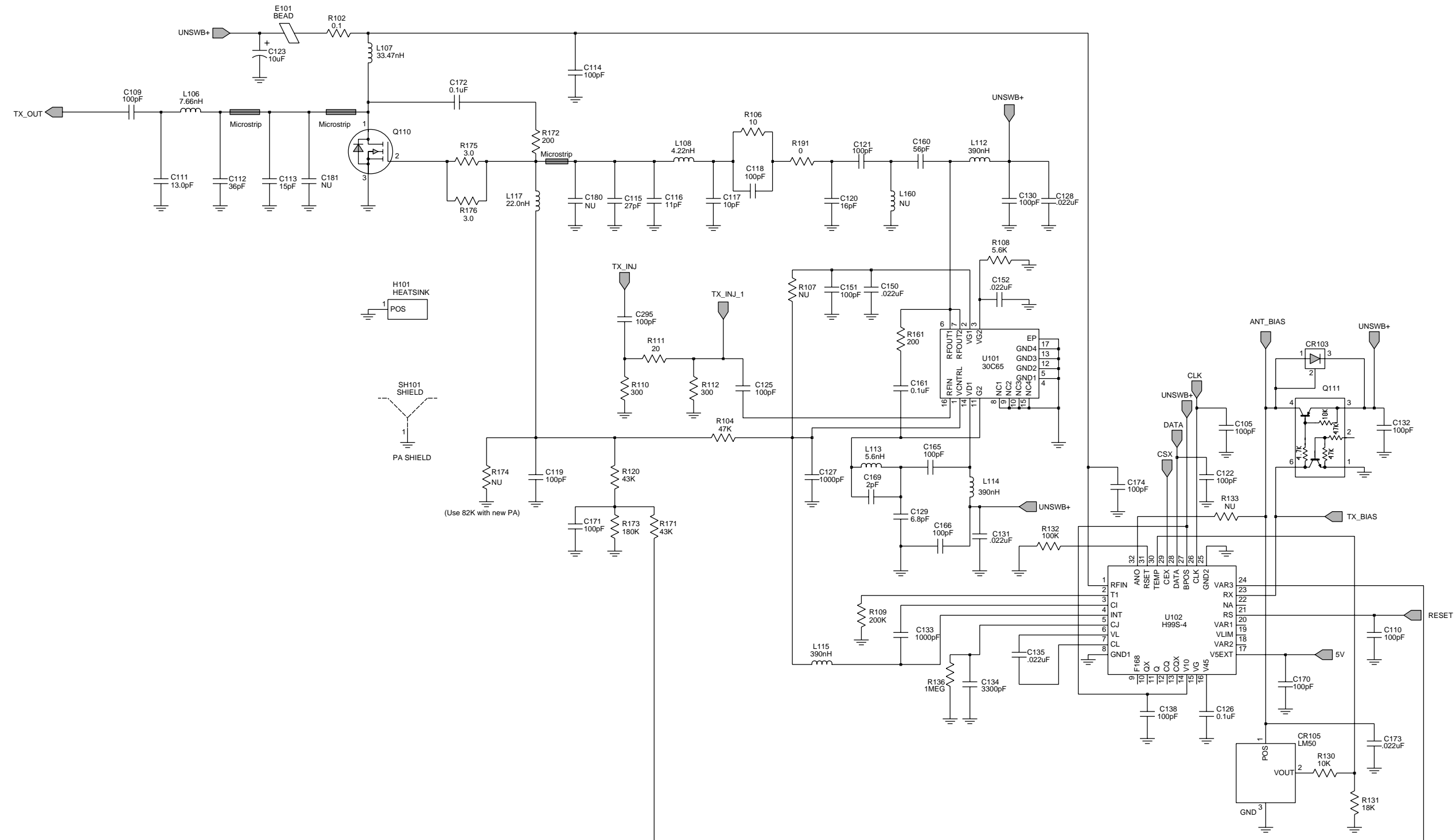


Figure 9-149. UHF Band 2 Transmitter Schematic Diagram

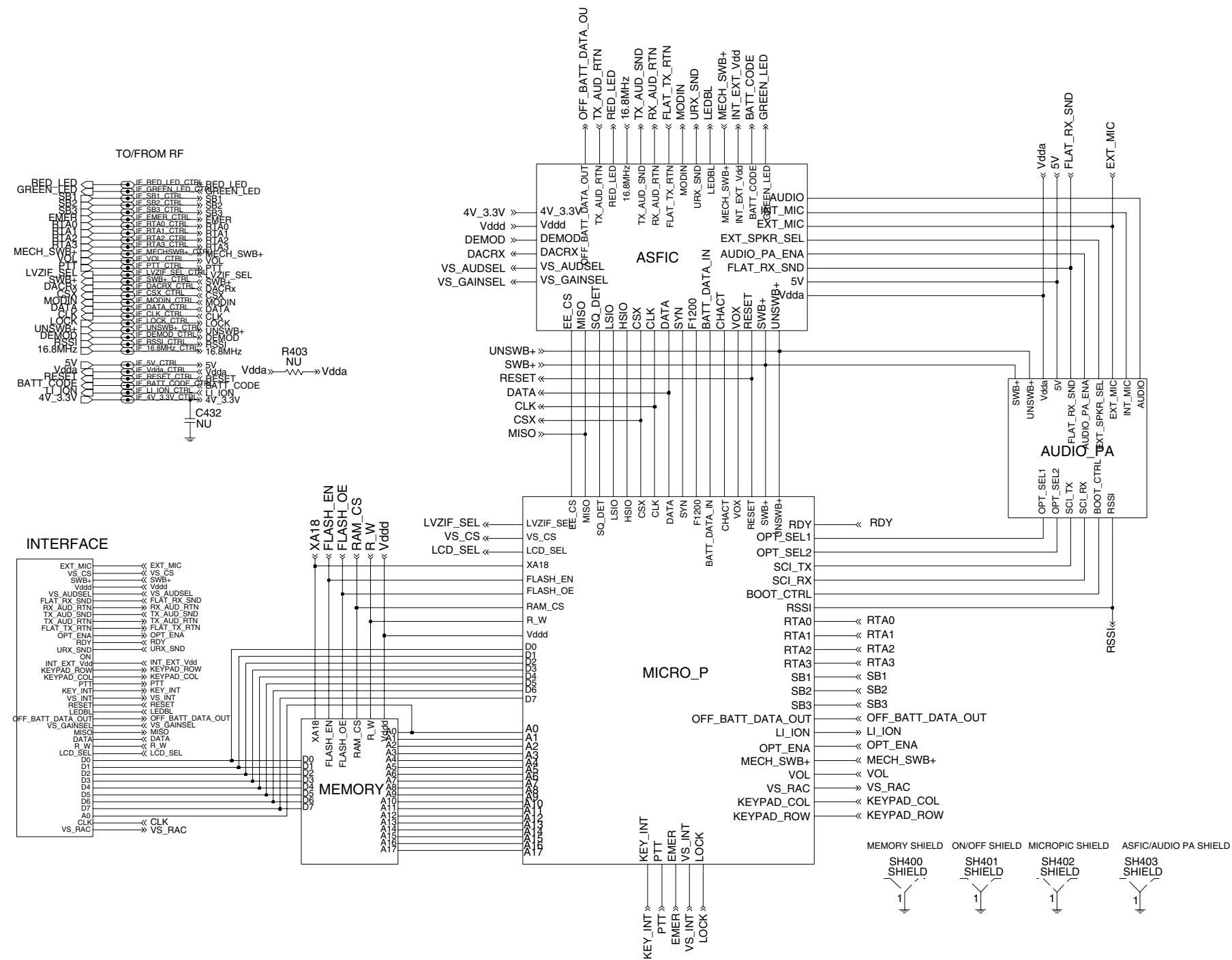
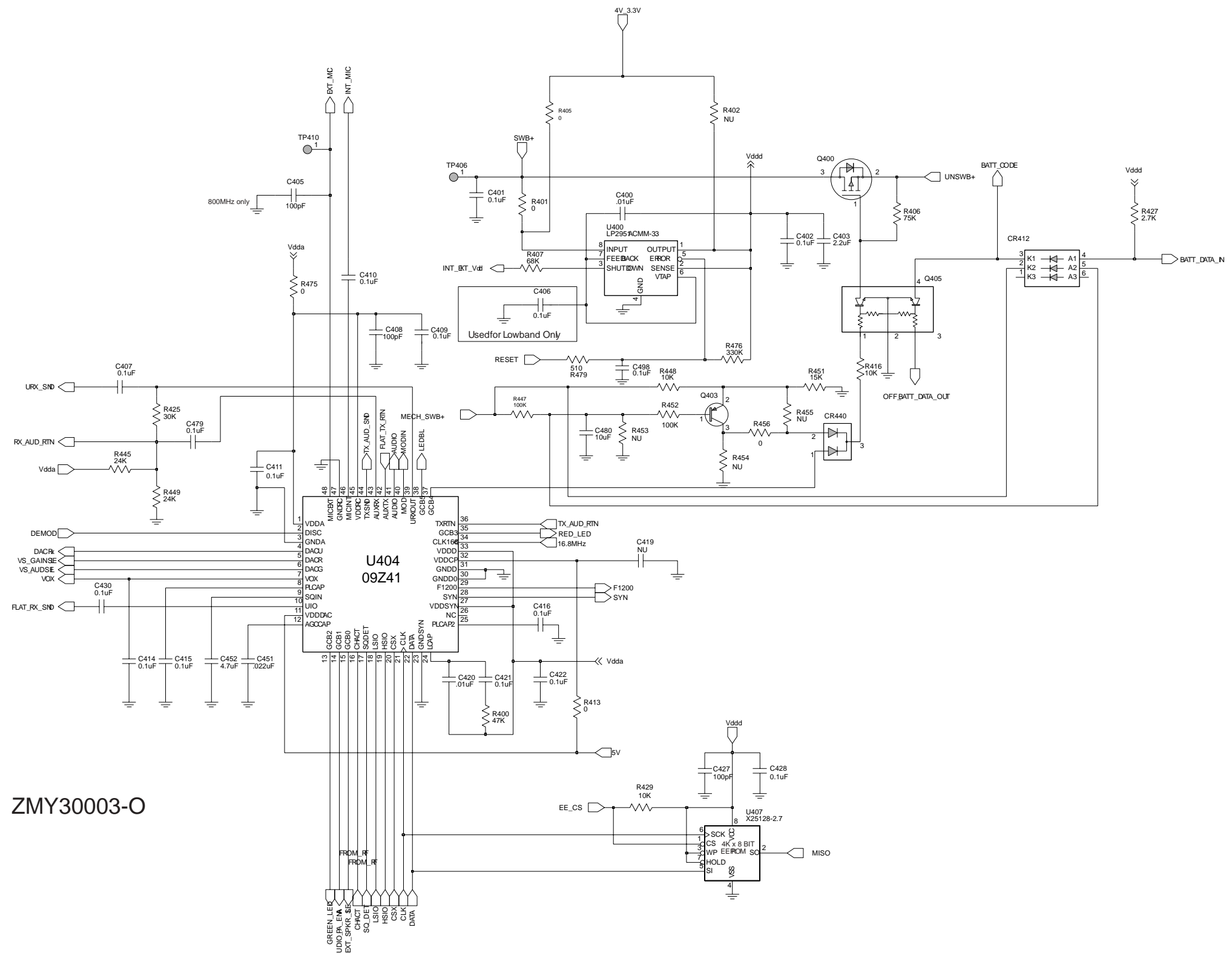


Figure 9-150. Complete Controller Schematic Diagram



ZMY30003-O

Figure 9-151. Controller ASFIC/ON_OFF Schematic Diagram

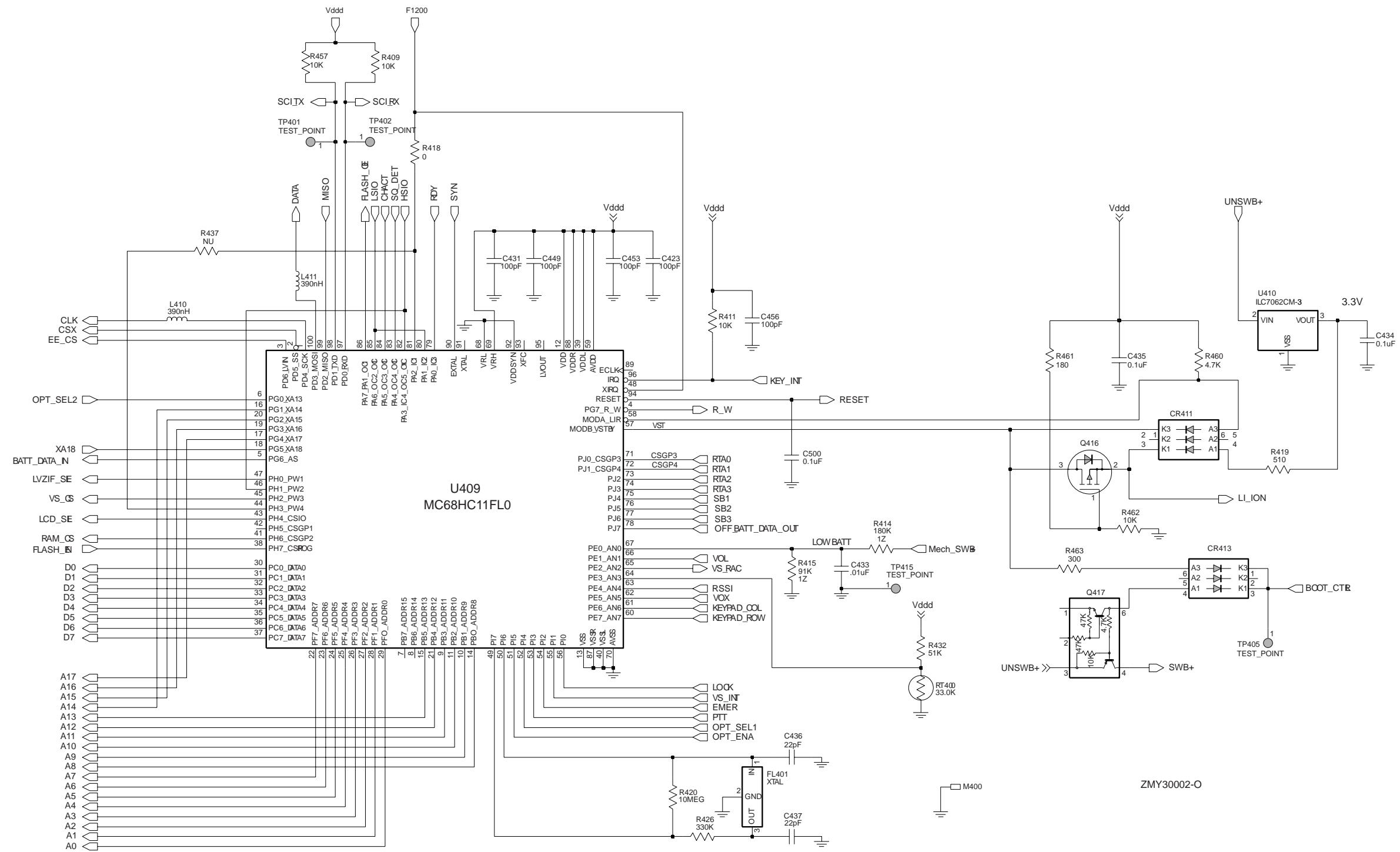
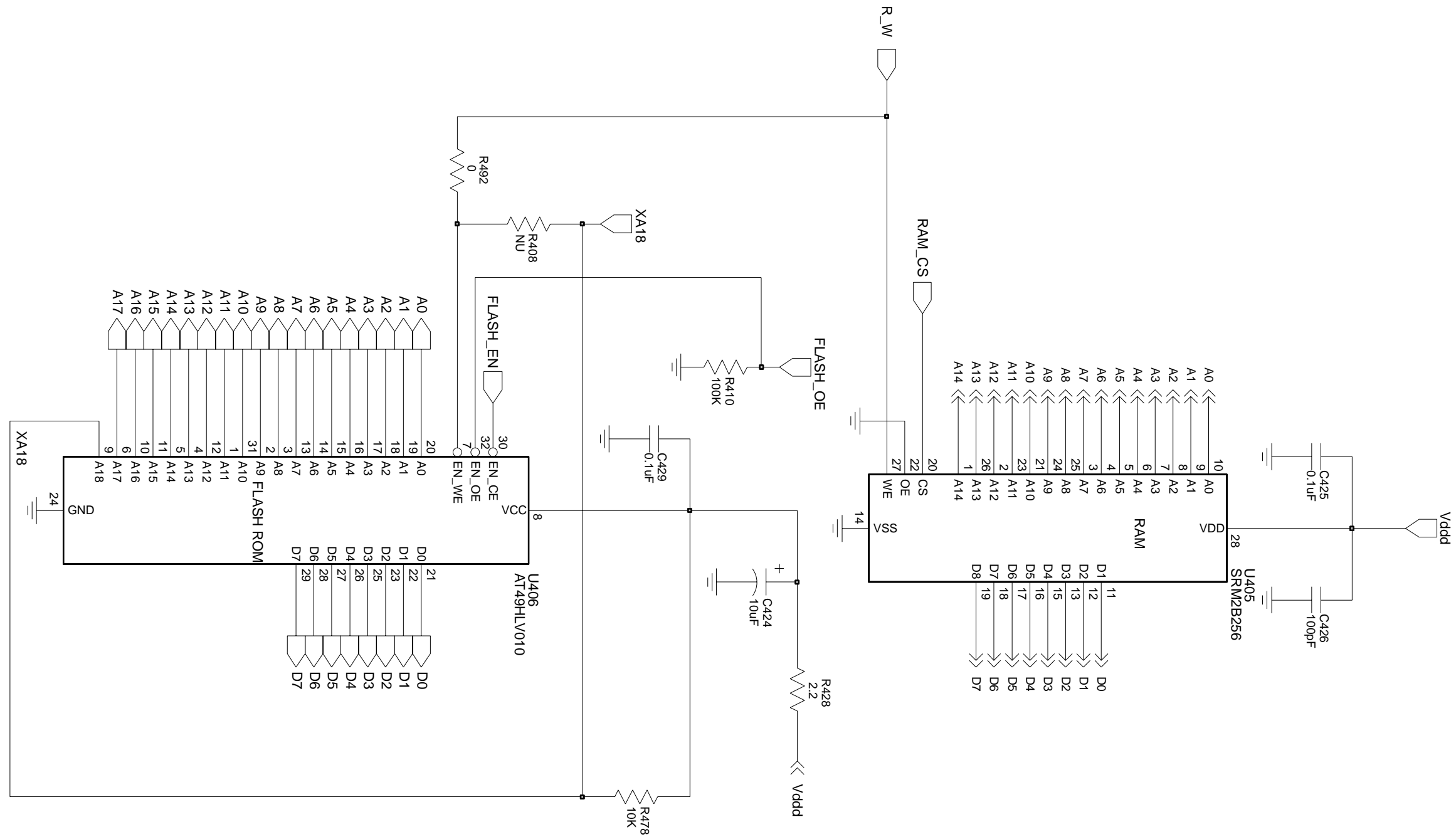


Figure 9-152. Controller Microprocessor Schematic Diagram



ZMY0130087-B

Figure 9-153. Controller Memory Schematic Diagram

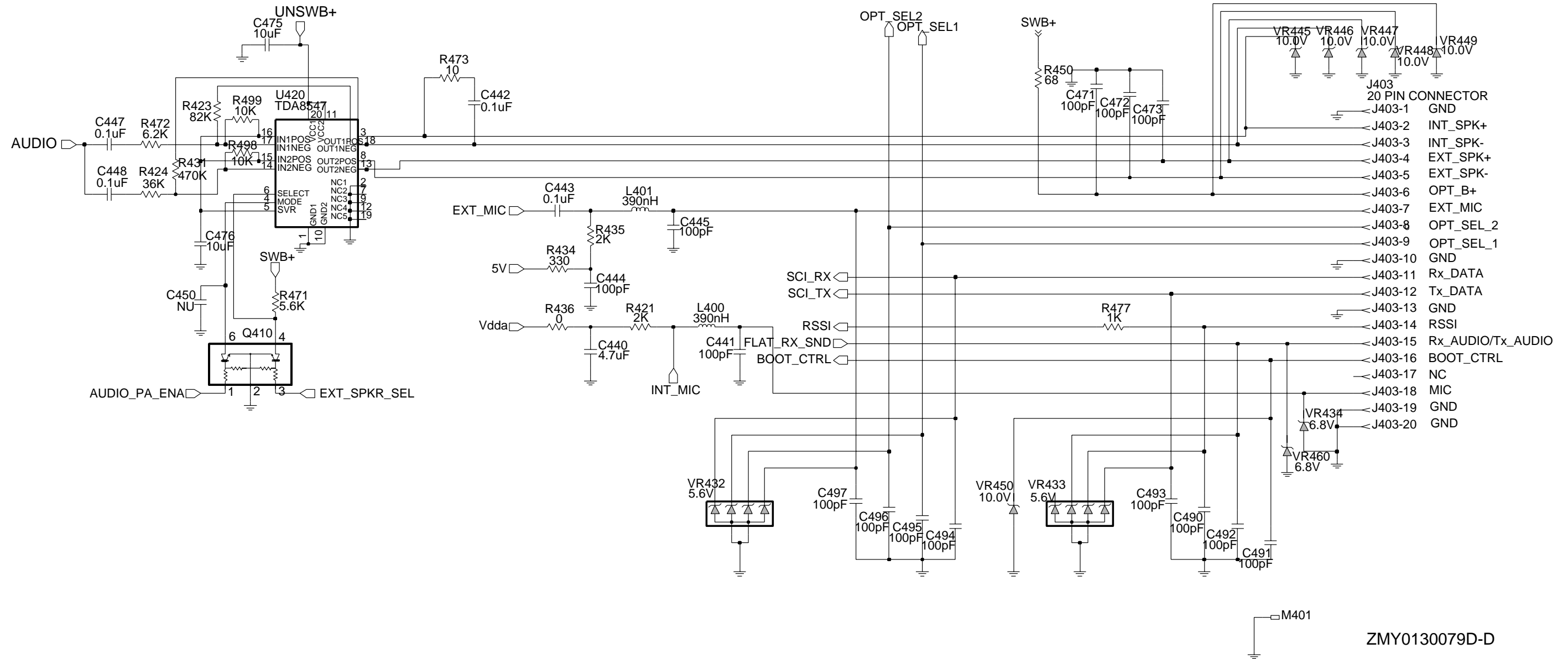


Figure 9-154. Controller Audio Power Amplifier Schematic Diagram

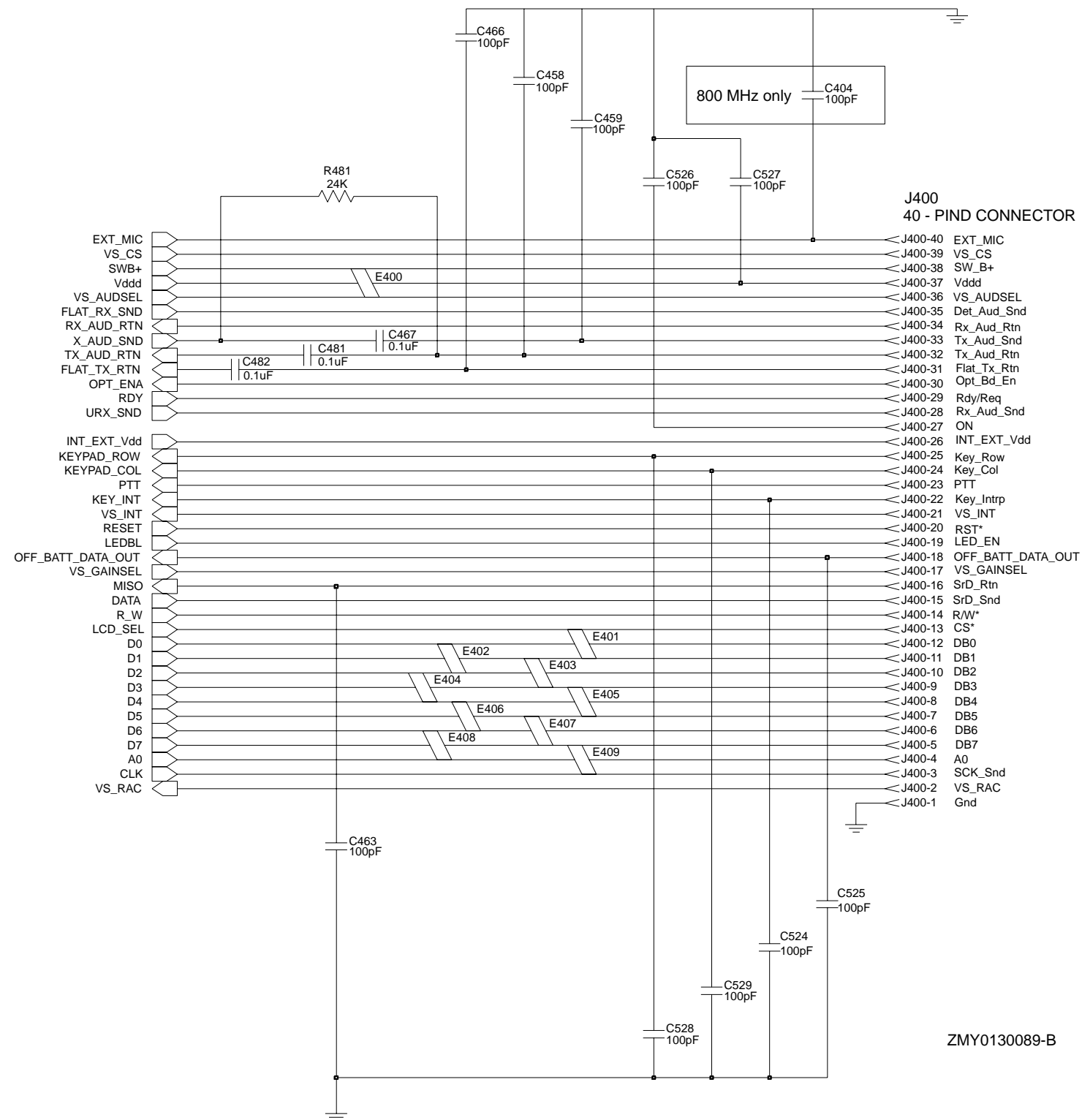


Figure 9-155. Controller Interface Schematic Diagram

UHF (403-470 MHz) Radio Parts List (PCB 8415235H01)

Circuit Ref	Motorola Part No.	Description
B501	0986237A02	Connector (Contact Battery)
B503	3980502Z01	Contact, Backup B+
B504	3980501Z01	Contact, Backup B-
C101	2113944C45	CAP CER CHP 100.0PF 50V 5%
C102	2113944C72	CAP,FXD,6.2PF,.25PF+/-,,,50V-DC,060
C103	2113944C77	CAP,FXD,11PF,,+5%,-5%,50V-DC,0603,C
C104	2113944C72	CAP,FXD,6.2PF,.25PF+/-,,,50V-DC,060
C105	2113944A40	CAP CER CHP 100.0PF 50V 5%
C106	2113944C22	CAP CER CHP 4.7PF 50V +/-0.25PF
C107	2113944C18	CAP CER CHP 3.3PF 50V +/-0.25PF
C108	2113944A40	CAP CER CHP 100.0PF 50V 5%
C109	2113944C45	CAP CER CHP 100.0PF 50V 5%
C110	2113944A40	CAP CER CHP 100.0PF 50V 5%
C111	2103689A22	CAP CHIP CL1 11.0 +/-0.05 PF
C112	2180605Z28	High Q CHIP Capacitor, 33PF
C113	2180605Z20	High Q CHIP Capacitor, 15PF
C114	2113944A40	CAP CER CHP 100.0PF 50V 5%
C115	2113944A79	CAP,FXD,16PF,,+5%,-5%,50V-DC,0402,C
C116	2113944A77	CAP,FXD,11PF,,+5%,-5%,50V-DC,0402,C
C117	NOTPLACED	-
C118	2113944A40	CAP CER CHP 100.0PF 50V 5%
C119	2113944A40	CAP CER CHP 100.0PF 50V 5%
C120	2113944A22	CAP CER CHP 7.5PF 50V +/-0.5PF
C121	2113944A40	CAP CER CHP 100.0PF 50V 5%
C122	2113944A40	CAP CER CHP 100.0PF 50V 5%
C123	2313960F04	CAP TANT 33 UF 10% 16V 6032-28
C125	2113944A40	CAP CER CHP 100.0PF 50V 5%
C126	2113946K02	CAP CER CHP 0.10UF 16V

Circuit Ref	Motorola Part No.	Description
C127	2113945A09	CAP CER CHP 1000PF 50V 10%
C128	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C129	2113944A22	CAP CER CHP 7.5PF 50V +/-0.5PF
C130	2113944A40	CAP CER CHP 100.0PF 50V 5%
C131	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C132	2113944A40	CAP CER CHP 100.0PF 50V 5%
C133	2113945A09	CAP CER CHP 1000PF 50V 10%
C134	2113945A12	CAP CER CHP 3300PF 50V 10%
C135	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C138	2113944A40	CAP CER CHP 100.0PF 50V 5%
C140	0613952H91	CER CHIP RES 5600 OHM 5% 0603
C141	2113944C28	CAP CER CHP 8.2PF 50V +/-0.5PF
C150	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C151	2113944A40	CAP CER CHP 100.0PF 50V 5%
C152	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C160	2113944A34	CAP CER CHP 56.0PF 50V 5%
C161	2113946K02	CAP CER CHP 0.10UF 16V
C165	2113944A34	CAP CER CHP 56.0PF 50V 5%
C166	2113944A40	CAP CER CHP 100.0PF 50V 5%
C169	2113944A08	CAP CER CHP 2.0PF 50V +/-0.25PF
C170	2113944A40	CAP CER CHP 100.0PF 50V 5%
C171	2113944A40	CAP CER CHP 100.0PF 50V 5%
C172	2113945D04	CAP CER CHP 100,000PF 25V 10%
C173	2113945B04	CAP,FXD,.022UF,,+10%,-10%,25V-DC,04
C174	2113944A40	CAP CER CHP 100.0PF 50V 5%
C180	NOTPLACED	-
C181	NOTPLACED	-

Circuit Ref	Motorola Part No.	Description
C201	2113944A40	CAP CER CHP 100.0PF 50V 5%
C202	2113945A09	CAP CER CHP 1000PF 50V 10%
C203	2313960B30	CAP TANT 4.7 UF 10% 10V 3216-18
C204	2113946N03	CAP CER CHP 2.2UF 16V
C206	2113944C04	CAP CER CHP 330.0PF 50V 5%
C207	2113944A32	CAP CER CHP 39.0PF 50V 5%
C208	NOTPLACED	-
C210	2113944A40	CAP CER CHP 100.0PF 50V 5%
C211	2113944A40	CAP CER CHP 100.0PF 50V 5%
C212	2113944A40	CAP CER CHP 100.0PF 50V 5%
C213	2113944A40	CAP CER CHP 100.0PF 50V 5%
C214	2113944A40	CAP CER CHP 100.0PF 50V 5%
C217	2113946N03	CAP CER CHP 2.2UF 16V
C218	2113946K02	CAP CER CHP 0.10UF 16V
C219	2113946L03	CAP CER CHP 0.22UF 16V
C220	2113944A40	CAP CER CHP 100.0PF 50V 5%
C223	2113946K02	CAP CER CHP 0.10UF 16V
C224	2113946K02	CAP CER CHP 0.10UF 16V
C228	2313960D05	CAP TANT 4.7 UF 10% 16V 3528-21
C229	2113945A09	CAP CER CHP 1000PF 50V 10%
C230	2113944A40	CAP CER CHP 100.0PF 50V 5%
C231	2113946K02	CAP CER CHP 0.10UF 16V
C232	2113945D02	CAP CER CHP 47,000PF 25V 10%
C233	2313960A26	CAP TANT 0.1 UF 10% 35V 3216-18
C234	2313960A55	CAP TANT 0.47 UF 10% 25V 3216-18
C235	2113946N03	CAP CER CHP 2.2UF 16V
C238	2113945L17	CAP,FXD,470PF,,+5%,-5%,50V-DC,0603,
C241	2113944A40	CAP CER CHP 100.0PF 50V 5%
C242	2113944A16	CAP CER CHP 4.3PF 50V +/-0.25PF
C243	2113944A16	CAP CER CHP 4.3PF 50V +/-0.25PF

Circuit Ref	Motorola Part No.	Description
C244	2113944C17	CAP CER CHP 3.0PF 50V +/-0.25PF
C245	2113944A11	CAP CER CHP 2.7PF 50V +/-0.25PF
C246	2113944A40	CAP CER CHP 100.0PF 50V 5%
C247	2113944A40	CAP CER CHP 100.0PF 50V 5%
C248	2113946K02	CAP CER CHP 0.10UF 16V
C250	2113944A16	CAP CER CHP 4.3PF 50V +/-0.25PF
C251	2113944A40	CAP CER CHP 100.0PF 50V 5%
C252	2113944A18	CAP CER CHP 5.1PF 50V +/-0.5PF
C253	2113944C12	CAP CER CHP 1.8PF 50V +/-0.25PF
C254	2113944A25	CAP CER CHP 10.0PF 50V +/-0.5PF
C255	2113944A40	CAP CER CHP 100.0PF 50V 5%
C256	2113944A18	CAP CER CHP 5.1PF 50V +/-0.5PF
C257	2113944A40	CAP CER CHP 100.0PF 50V 5%
C258	2113945B02	CAP CER CHP 10,000PF 25V 10%
C259	2113945B02	CAP CER CHP 10,000PF 25V 10%
C260	2113944A40	CAP CER CHP 100.0PF 50V 5%
C263	2113944A62	CAP,FXD,.75PF,.25PF+/-,,,50V-DC,040
C264	2113944A40	CAP CER CHP 100.0PF 50V 5%
C265	NOTPLACED	-
C271	NOTPLACED	-
C272	2115153H01	CAP, CERAMIC, COG
C273	2113946K02	CAP CER CHP 0.10UF 16V
C276	2113946N03	CAP CER CHP 2.2UF 16V
C277	2113944A40	CAP CER CHP 100.0PF 50V 5%
C278	2313960D07	CAP TANT 10 UF 10% 16V 3528-21
C279	2113946N03	CAP CER CHP 2.2UF 16V
C281	2113944A40	CAP CER CHP 100.0PF 50V 5%
C282	NOTPLACED	-
C283	NOTPLACED	-
C285	2113944A40	CAP CER CHP 100.0PF 50V 5%

Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description
C286	2113946K02	CAP CER CHP 0.10UF 16V	C320	2113944A24	CAP CER CHP 9.1PF 50V +/-0.5PF	C378	NOTPLACED	-	C427	2113944A40	CAP CER CHP 100.0PF 50V 5%
C289	2113944A40	CAP CER CHP 100.0PF 50V 5%	C321	2113944A40	CAP CER CHP 100.0PF 50V 5%	C380	2113945B02	CAP CER CHP 10,000PF 25V 10%	C428	2113946K02	CAP CER CHP 0.10UF 16V
C291	2313960M51	CAP TANT 10 UF 10% 6.3V 2012-12	C322	2113944A38	CAP CER CHP 82.0PF 50V 5%	C381	NOTPLACED	-	C429	2113946K02	CAP CER CHP 0.10UF 16V
C292	2113946K02	CAP CER CHP 0.10UF 16V	C324	2115153H40	CAP, CERAMIC, COG	C382	2313960B57	CAP,TANTA-LUM,10UF,+10%,-10%,4V-DC,S	C430	2113946B04	CAP CER CHP 0.10UF 10V 10%
C293	2113945G98	CAP,FXD,,47UF,,+10%,-10%,50V-DC,080	C325	2115153H26	CAP, CERAMIC, COG	C383	NOTPLACED	-	C431	2113944A40	CAP CER CHP 100.0PF 50V 5%
C294	2113944A40	CAP CER CHP 100.0PF 50V 5%	C326	2113946K02	CAP CER CHP 0.10UF 16V	C385	2115075H01	CAP,CERAMIC CHIP,24PF,,+5%,-5%,50V-	C432	NOTPLACED	-
C295	2113944A40	CAP CER CHP 100.0PF 50V 5%	C327	2113946K02	CAP CER CHP 0.10UF 16V	C386	2113944A40	CAP CER CHP 100.0PF 50V 5%	C433	2113945B02	CAP CER CHP 10,000PF 25V 10%
C296	2113946K02	CAP CER CHP 0.10UF 16V	C328	2113946K02	CAP CER CHP 0.10UF 16V	C390	NOTPLACED	-	C434	2113946B04	CAP CER CHP 0.10UF 10V 10%
C297	2113945B02	CAP CER CHP 10,000PF 25V 10%	C329	2113946K02	CAP CER CHP 0.10UF 16V	C400	2113945B02	CAP CER CHP 10,000PF 25V 10%	C435	2113946K02	CAP CER CHP 0.10UF 16V
C298	2113946K02	CAP CER CHP 0.10UF 16V	C334	2113945A13	CAP CER CHP 4700PF 50V 10%	C401	2113946K02	CAP CER CHP 0.10UF 16V	C436	2113944A29	CAP CER CHP 22.0PF 50V 5%
C301	2113944A23	CAP CER CHP 8.2PF 50V +/-0.5PF	C337	NOTPLACED	-	C402	2113946K02	CAP CER CHP 0.10UF 16V	C437	2113944A29	CAP CER CHP 22.0PF 50V 5%
C302	2113944A26	CAP CER CHP 12.0PF 50V 5%	C338	NOTPLACED	-	C403	2113743G24	CAP CHIP 2.2 UF 16V+80-20%	C440	2113946Q01	CAP CER CHP 4.7UF 16V
C303	2113944C21	CAP CER CHP 4.3PF 50V +/-0.25PF	C343	2113946K02	CAP CER CHP 0.10UF 16V	C404	NOTPLACED	-	C441	2113944A40	CAP CER CHP 100.0PF 50V 5%
C304	2113944A77	CAP,FXD,11PF,,+5%,-5%,50V-DC,0402,C	C344	2113945D04	CAP CER CHP 100,000PF 25V 10%	C405	2113944A40	CAP CER CHP 100.0PF 50V 5%	C442	2113945D04	CAP CER CHP 100,000PF 25V 10%
C305	2113944A40	CAP CER CHP 100.0PF 50V 5%	C345	2113946K02	CAP CER CHP 0.10UF 16V	C406	NOTPLACED	-	C443	2113946B04	CAP CER CHP 0.10UF 10V 10%
C306	NOTPLACED	-	C346	2113946K02	CAP CER CHP 0.10UF 16V	C407	2113946B04	CAP CER CHP 0.10UF 10V 10%	C444	2113944A40	CAP CER CHP 100.0PF 50V 5%
C307	2113944A40	CAP CER CHP 100.0PF 50V 5%	C347	2113946K02	CAP CER CHP 0.10UF 16V	C408	2113944A40	CAP CER CHP 100.0PF 50V 5%	C445	2113944A40	CAP CER CHP 100.0PF 50V 5%
C308	2113944A40	CAP CER CHP 100.0PF 50V 5%	C348	2113946K02	CAP CER CHP 0.10UF 16V	C409	2113946K02	CAP CER CHP 0.10UF 16V	C447	2113945B04	CAP,FXD,,022UF,,+10%,-10%,25V-DC,04
C309	2113944A40	CAP CER CHP 100.0PF 50V 5%	C349	2113945D04	CAP CER CHP 100,000PF 25V 10%	C410	2113946B04	CAP CER CHP 0.10UF 10V 10%	C448	2113946B04	CAP CER CHP 0.10UF 10V 10%
C310	2113944A40	CAP CER CHP 100.0PF 50V 5%	C350	2113946K02	CAP CER CHP 0.10UF 16V	C411	2113946K02	CAP CER CHP 0.10UF 16V	C449	2113944A40	CAP CER CHP 100.0PF 50V 5%
C311	NOTPLACED	-	C351	2113944A41	CAP CER CHP 120.0PF 50V 5%	C414	2113946K02	CAP CER CHP 0.10UF 16V	C450	NOTPLACED	-
C312	2113944A22	CAP CER CHP 7.5PF 50V +/-0.5PF	C352	2113946K02	CAP CER CHP 0.10UF 16V	C415	2185895Z01	Capacitor CER LOW DIST .01UF	C451	2113945B04	CAP,FXD,,022UF,,+10%,-10%,25V-DC,04
C313	2113944A77	CAP,FXD,11PF,,+5%,-5%,50V-DC,0402,C	C355	2113946K02	CAP CER CHP 0.10UF 16V	C416	2113946B04	CAP CER CHP 0.10UF 10V 10%	C452	2113743B29	CAP CHIP 1.00 UF 10% 16V
C314	2113946K02	CAP CER CHP 0.10UF 16V	C357	2113946K02	CAP CER CHP 0.10UF 16V	C419	NOTPLACED	-	C453	2113944A40	CAP CER CHP 100.0PF 50V 5%
C315	2113944A40	CAP CER CHP 100.0PF 50V 5%	C358	NOTPLACED	-	C420	2113945B02	CAP CER CHP 10,000PF 25V 10%	C456	2113944A40	CAP CER CHP 100.0PF 50V 5%
C316	2113944C21	CAP CER CHP 4.3PF 50V +/-0.25PF	C359	NOTPLACED	-	C421	2113946B04	CAP CER CHP 0.10UF 10V 10%	C458	2113944A40	CAP CER CHP 100.0PF 50V 5%
C317	2113944A73	CAP,FXD,8PF,,5PF+/-,,50V-DC,0402,C	C360	2113944A13	CAP CER CHP 3.3PF 50V +/-0.25PF	C422	2113946K02	CAP CER CHP 0.10UF 16V	C459	2113944A40	CAP CER CHP 100.0PF 50V 5%
C318	2113944A26	CAP CER CHP 12.0PF 50V 5%	C361	2113946K02	CAP CER CHP 0.10UF 16V	C423	2113944A40	CAP CER CHP 100.0PF 50V 5%	C463	2113944A40	CAP CER CHP 100.0PF 50V 5%
C319	2113944A16	CAP CER CHP 4.3PF 50V +/-0.25PF	C362	2113946K02	CAP CER CHP 0.10UF 16V	C424	2313960B57	CAP,TANTA-LUM,10UF,+10%,-10%,4V-DC,S	C466	2113944A40	CAP CER CHP 100.0PF 50V 5%
			C364	2115075H01	CAP,CERAMIC CHIP,24PF,,+5%,-5%,50V-	C425	2113946K02	CAP CER CHP 0.10UF 16V			
			C366	NOTPLACED	-	C426	2113944A40	CAP CER CHP 100.0PF 50V 5%			
			C367	2115075H02	CAP,CERAMIC CHIP,30PF,,+5%,-5%,50V-						
			C370	2115153H18	CAP, CERAMIC, COG						
			C371	NOTPLACED	-						
			C372	2113944A40	CAP CER CHP 100.0PF 50V 5%						
			C373	NOTPLACED	-						
			C374	2113944A40	CAP CER CHP 100.0PF 50V 5%						
			C375	2113944A40	CAP CER CHP 100.0PF 50V 5%						

Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description	Circuit Ref	Motorola Part No.	Description
C467	2113946B04	CAP CER CHP 0.10UF 10V 10%	C520	2113945B02	CAP CER CHP 10,000PF 25V 10%	CR242	4815264H01	Diode Varactor From Toshiba	E640	2480640Z01	Surface Mount Ferrite Bead
C471	2113944A40	CAP CER CHP 100.0PF 50V 5%	C521	2113945B02	CAP CER CHP 10,000PF 25V 10%	CR243	4815264H01	Diode Varactor From Toshiba	E641	2480640Z01	Surface Mount Ferrite Bead
C472	2113945A05	CAP CER CHP 470PF 50V 10%	C522	2113945B02	CAP CER CHP 10,000PF 25V 10%	CR251	4815322H01	VHF Variable Capacitance Diode	E642	2480640Z01	Surface Mount Ferrite Bead
C473	2113945A05	CAP CER CHP 470PF 50V 10%	C523	2113945B02	CAP CER CHP 10,000PF 25V 10%	CR301	4815264H01	Diode Varactor From Toshiba	E643	2480640Z01	Surface Mount Ferrite Bead
C475	2113743H14	CAP CHIP 10.0 UF 16V +80-20%	C524	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR302	4815264H01	Diode Varactor From Toshiba	E644	2480640Z01	Surface Mount Ferrite Bead
C476	2113946R01	CAP CER CHP 10.0UF 10V	C525	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR303	4815048H01	Diode,SHTK,MMBD353LT1,S M,,7V	E645	2480640Z01	Surface Mount Ferrite Bead
C479	2113946B04	CAP CER CHP 0.10UF 10V 10%	C526	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR306	4802245J42	Ring Quad Diode SOT-143 PKG	F501	6515076H01	FUSE,FST BLW,3A,24V,Fuse CHIP SMT T
C480	2113946R01	CAP CER CHP 10.0UF 10V	C527	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR311	4813974A19	Diode Schottky Barrier Series	FL201	4805875Z04	CRYSTAL 16.8 MHZ
C481	2113946B04	CAP CER CHP 0.10UF 10V 10%	C528	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR312	4815047H01	Diode,SWG,DAN235EFTL,,3 5V	FL301	9180022M11	XTAL FILTER 44.85MHZ
C482	2113946B04	CAP CER CHP 0.10UF 10V 10%	C529	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR313	4815047H01	Diode,SWG,DAN235EFTL,,3 5V	FL302	9180468V05	SMD455KHZ 4 ELEMENT CER FLTR
C490	2113944A40	CAP CER CHP 100.0PF 50V 5%	C610	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR411	4815067H01	Diode Array,SWG,RB731UFT108,S MD,,1M	FL303	9115811H03	SMD455KHZ 6 ELEMENT
C491	2113944A40	CAP CER CHP 100.0PF 50V 5%	C611	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR412	4815067H01	Diode Array,SWG,RB731UFT108,S MD,,1M	FL304	9115811H01	SMD455KHZ 6 ELEMENT
C492	2113944A40	CAP CER CHP 100.0PF 50V 5%	C612	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR413	4815067H01	Diode Array,SWG,RB731UFT108,S MD,,1M	FL401	4870368G02	Reflowable Clock OSC XTAL
C493	2113944A40	CAP CER CHP 100.0PF 50V 5%	C613	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR440	4813978C02	PB Free, Not Completely Enriched	H101	2680499Z02	Heat Spreader
C494	2113944A40	CAP CER CHP 100.0PF 50V 5%	C615	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR501	4815155H01	RECTIFIER	J101	0985613Z01	Jack,RF
C495	2113944A40	CAP CER CHP 100.0PF 50V 5%	C616	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR503	4805729G49	Diode Red/Yel	J102	0280519Z02	Nut, Antenna
C496	2113944A40	CAP CER CHP 100.0PF 50V 5%	C618	2113944A40	CAP CER CHP 100.0PF 50V 5%	D601	4880479U01	LED	J400	0915064H03	CONNECTOR, ZIF (40 PINS)
C497	2113944A40	CAP CER CHP 100.0PF 50V 5%	C619	2113944A40	CAP CER CHP 100.0PF 50V 5%	D602	4880479U01	LED	J403	0915064H02	CONN,CONN,F,20CONT,,,CONNECTOR, ZIF
C498	NOTPLACED	-	C620	2113944A40	CAP CER CHP 100.0PF 50V 5%	D603	4880479U01	LED	J601	0980521Z03	CONN, ZIF Vertical, 40PINS
C499	2113946B04	CAP CER CHP 0.10UF 10V 10%	C621	2113944A40	CAP CER CHP 100.0PF 50V 5%	D604	4880479U01	LED	J602	0915064H01	CONN,CONN,F,18CONT,,,Connector, ZIF
C502	2313960A55	CAP TANT 0.47 UF 10% 25V 3216-18	C622	2113944A40	CAP CER CHP 100.0PF 50V 5%	D605	4880479U01	LED	L101	2460591B28	Coil Air Wound INDUC 13.37
C503	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR101	4880973Z02	Pin Diode	D606	4880479U01	LED	L102	2460591B28	Coil Air Wound INDUC 13.37
C505	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR102	4815257H01	Surface Mount Pin Diodes	E101	2484657R01	Inductor Bead Chip	L104	2460591B48	Coil Air Wound INDUC 15.22
C511	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR103	4815257H01	Surface Mount Pin Diodes	E400	2480640Z01	Surface Mount Ferrite Bead	L105	2462587N22	CHIP IND 390 NH 10%
C512	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR105	5115022H01	IC,TEMP SENS,LM50C,SM,SOT-23	E401	2480640Z01	Surface Mount Ferrite Bead	L106	2460591A19	Coil Air Wound INDUC 8.71
C513	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR160	NOTPLACED	-	E402	2480640Z01	Surface Mount Ferrite Bead	L107	2479990G01	Air Wound Coil/Green Color 33.47NH
C514	2113944A40	CAP CER CHP 100.0PF 50V 5%	CR201	4815011H01	Diode,SWG,,300MA,80V	E403	2480640Z01	Surface Mount Ferrite Bead	L108	2479990A01	Air Wound Coil/Green Color 4.22NH
			CR203	4815072H01	Diode,VCTR,1SV232,,30V	E404	2480640Z01	Surface Mount Ferrite Bead	L112	2462587N42	CHIP IND 12 NH 5%
			CR241	4815071H01	Diode,VCTR,1SV228,,15V	E405	2480640Z01	Surface Mount Ferrite Bead	L113	2415016H01	IDCTR,CHIP,5.6NH,5%,1A,,CER,,,,,SM
						E406	2480640Z01	Surface Mount Ferrite Bead	L114	2462587N42	CHIP IND 12 NH 5%
						E407	2480640Z01	Surface Mount Ferrite Bead	L115	2462587N22	CHIP IND 390 NH 10%
						E408	2480640Z01	Surface Mount Ferrite Bead	L116	2479990C02	Air Wound Coil/Green Color 16.28NH
						E409	2480640Z01	Surface Mount Ferrite Bead	L117	2414017P17	IND CER CHIP 22.0 NH 5%
						E634	2480640Z01	Surface Mount Ferrite Bead	L160	2414017H14	IND CHIP 15.0 NH 5%
						E637	2480640Z01	Surface Mount Ferrite Bead	L201	2462587Q20	IND CHIP 2,200NH 20%
						E638	2480640Z01	Surface Mount Ferrite Bead	L202	2462587Q20	IND CHIP 2,200NH 20%
						E639	2480640Z01	Surface Mount Ferrite Bead	L203	2462587Q20	IND CHIP 2,200NH 20%
									L232	2415844H01	CHIP IND 12000 NH 5%
									L241	2462587V41	IND CHIP 390 NH 10%
									L242	2462587V26	CHIP IND 22 NH 5% 0805
									L243	2485776Z02	Coil Teflon Resonator (KAP- TON)
									L251	2462587V41	IND CHIP 390 NH 10%

Circuit Ref	Motorola Part No.	Description
R328	0613952Q11	CER CHIP RES 2.7 OHM 5% 0402
R329	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R330	0613952R01	CER CHIP RES 10K OHM 5% 0402
R331	0613952Q56	CER CHIP RES 200 OHM 5% 0402
R332	0613952R03	CER CHIP RES 12K OHM 5% 0402
R333	NOTPLACED	-
R339	0613952Q88	CER CHIP RES 4300 OHM 5% 0402
R340	0613952Q95	CER CHIP RES 8200 OHM 5% 0402
R342	0613952R25	CER CHIP RES 100K OHM 5% 0402
R344	0613952Q42	CER CHIP RES 51.0 OHM 5% 0402
R345	0613952R15	CER CHIP RES 39K OHM 5% 0402
R346	0613952R05	CER CHIP RES 15K OHM 5% 0402
R348	0613952Q86	CER CHIP RES 3600 OHM 5% 0402
R349	0613958J74	CER CHIP RES 0.0 OHM JMP 0805
R350	0613952R01	CER CHIP RES 10K OHM 5% 0402
R355	0613952R25	CER CHIP RES 100K OHM 5% 0402
R358	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R359	NOTPLACED	-
R360	0613952R08	CER CHIP RES 20K OHM 5% 0402
R361	0613952R08	CER CHIP RES 20K OHM 5% 0402
R363	0613952Q63	CER CHIP RES 390 OHM 5% 0402
R364	0613952Q79	CER CHIP RES 1800 OHM 5% 0402
R365	0613952Q75	CER CHIP RES 1200 OHM 5% 0402
R366	0613952R03	CER CHIP RES 12K OHM 5% 0402
R367	0613952N09	CER CHIP RES 12.1K OHM 1% 0402
R368	0613952N01	CER CHIP RES 10.0K OHM 1% 0402

Circuit Ref	Motorola Part No.	Description
R369	0613952Q69	CER CHIP RES 680 OHM 5% 0402
R370	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R371	NOTPLACED	-
R372	NOTPLACED	-
R373	NOTPLACED	-
R374	NOTPLACED	-
R375	NOTPLACED	-
R376	NOTPLACED	-
R377	NOTPLACED	-
R378	NOTPLACED	-
R400	0613952R17	CER CHIP RES 47K OHM 5% 0402
R401	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R402	NOTPLACED	-
R403	NOTPLACED	-
R405	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R406	0613952R22	CER CHIP RES 75K OHM 5% 0402
R407	0613952R21	CER CHIP RES 68K OHM 5% 0402
R408	NOTPLACED	-
R409	0613952R01	CER CHIP RES 10K OHM 5% 0402
R410	0613952R25	CER CHIP RES 100K OHM 5% 0402
R411	0613952R01	CER CHIP RES 10K OHM 5% 0402
R413	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R414	0613952P25	CER CHIP RES 178K OHM 1% 0402
R415	0613952N93	CER CHIP RES 90.9K OHM 1% 0402
R416	0613952R01	CER CHIP RES 10K OHM 5% 0402
R418	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R419	0613952Q66	CER CHIP RES 510 OHM 5% 0402
R420	0613952J73	CER CHIP RES 10.0M OHM 5% 0603
R421	0613952Q80	CER CHIP RES 2000 OHM 5% 0402
R423	0613952R41	CER CHIP RES 470K OHM 5% 0402
R424	0613952R14	CER CHIP RES 36K OHM 5% 0402

Circuit Ref	Motorola Part No.	Description
R425	0613952R12	CER CHIP RES 30K OHM 5% 0402
R426	0613952R37	CER CHIP RES 330K OHM 5% 0402
R427	0613952Q83	CER CHIP RES 2700 OHM 5% 0402
R428	0613952Q09	CER CHIP RES 2.2 OHM 5% 0402
R429	0613952R22	CER CHIP RES 75K OHM 5% 0402
R431	0613952R41	CER CHIP RES 470K OHM 5% 0402
R432	0613952R18	CER CHIP RES 51K OHM 5% 0402
R434	0613952Q61	CER CHIP RES 330 OHM 5% 0402
R435	0613952Q80	CER CHIP RES 2000 OHM 5% 0402
R436	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R437	NOTPLACED	-
R445	0613952R10	CER CHIP RES 24K OHM 5% 0402
R447	0613952R25	CER CHIP RES 100K OHM 5% 0402
R448	0613952R01	CER CHIP RES 10K OHM 5% 0402
R449	0613952R10	CER CHIP RES 24K OHM 5% 0402
R450	0613959Y45	CER CHIP RES 68.0 OHM 5% 2512
R451	0613952R05	CER CHIP RES 15K OHM 5% 0402
R452	0613952R25	CER CHIP RES 100K OHM 5% 0402
R453	NOTPLACED	-
R454	NOTPLACED	-
R455	NOTPLACED	-
R456	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R457	0613952R01	CER CHIP RES 10K OHM 5% 0402
R460	0613952Q89	CER CHIP RES 4700 OHM 5% 0402
R461	0613952Q55	CER CHIP RES 180 OHM 5% 0402
R462	0613952R01	CER CHIP RES 10K OHM 5% 0402
R463	0613952Q60	CER CHIP RES 300 OHM 5% 0402

Circuit Ref	Motorola Part No.	Description
R471	0613952R08	CER CHIP RES 20K OHM 5% 0402
R472	0613952R14	CER CHIP RES 36K OHM 5% 0402
R473	0613952Q25	CER CHIP RES 10.0 OHM 5% 0402
R475	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R476	0613952R37	CER CHIP RES 330K OHM 5% 0402
R477	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R478	0613952R01	CER CHIP RES 10K OHM 5% 0402
R479	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R481	0613952R10	CER CHIP RES 24K OHM 5% 0402
R492	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R498	0613952R01	CER CHIP RES 10K OHM 5% 0402
R499	0613952R01	CER CHIP RES 10K OHM 5% 0402
R501	0613952Q69	CER CHIP RES 680 OHM 5% 0402
R502	0613952Q55	CER CHIP RES 180 OHM 5% 0402
R505	0613952R01	CER CHIP RES 10K OHM 5% 0402
R506	0613952R17	CER CHIP RES 47K OHM 5% 0402
R507	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R601	0613952Z67	RES,MF,51KOHM,1%,.0625 W,SM,0402,200
R602	0613952Z67	RES,MF,51KOHM,1%,.0625 W,SM,0402,200
R603	0613952N12	CER CHIP RES 13.0K OHM 1% 0402
R604	0613952Z58	RES,MF,22KOHM,1%,.0625 W,SM,0402,200
R605	0613952N62	CER CHIP RES 43.2K OHM 1% 0402
R606	0613952P12	CER CHIP RES 130K OHM 1% 0402
R607	0613952N12	CER CHIP RES 13.0K OHM 1% 0402
R608	0613952Z58	RES,MF,22KOHM,1%,.0625 W,SM,0402,200

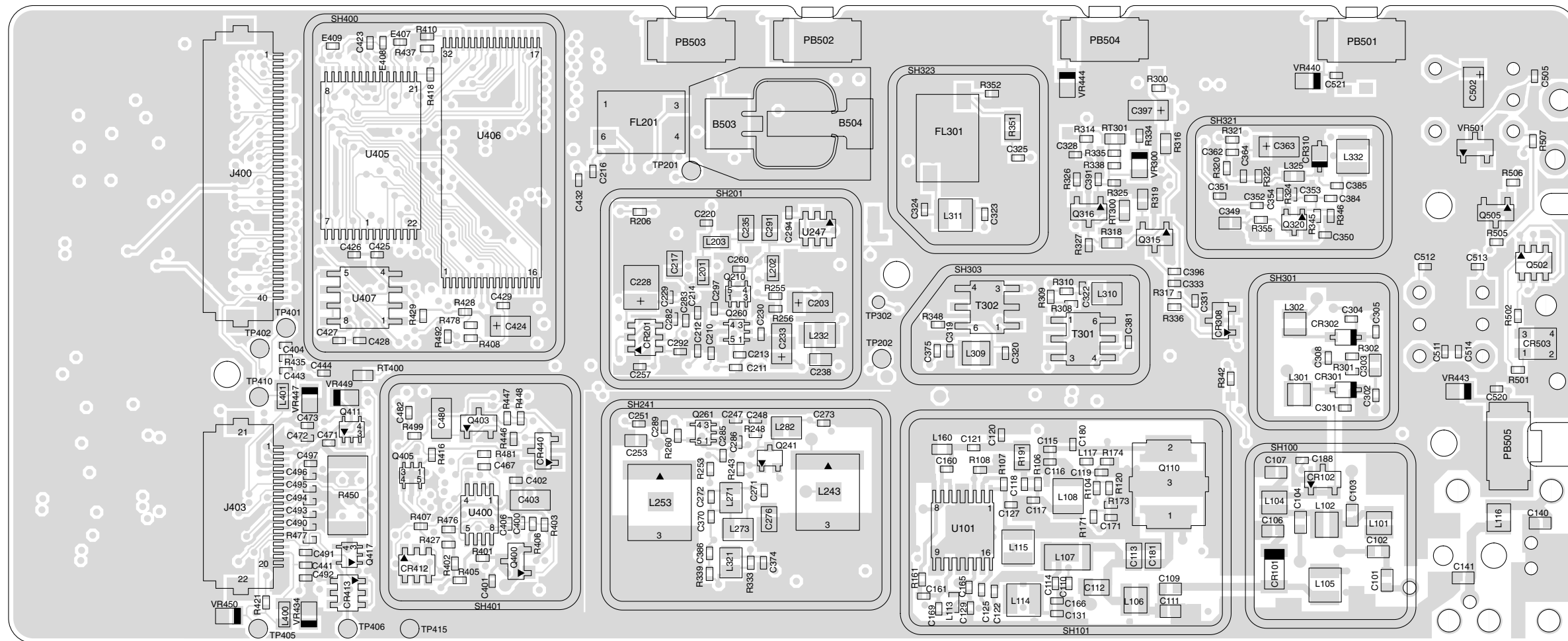
Circuit Ref	Motorola Part No.	Description
R609	0613952N62	CER CHIP RES 43.2K OHM 1% 0402
R610	0613952P12	CER CHIP RES 130K OHM 1% 0402
R611	0613952R18	CER CHIP RES 51K OHM 5% 0402
R612	0613952R43	CER CHIP RES 560K OHM 5% 0402
R613	0613952R49	CER CHIP RES 1.0M OHM 5% 0402
R614	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R617	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R618	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R619	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R620	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R621	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R622	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R623	0613952Q73	CER CHIP RES 1000 OHM 5% 0402
R626	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R627	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R631	0613952R66	CER CHIP RES 0.0 +/-0.050 OHM
R632	0613952R25	CER CHIP RES 100K OHM 5% 0402
R633	0613952R25	CER CHIP RES 100K OHM 5% 0402
R646	0613952R25	CER CHIP RES 100K OHM 5% 0402
R647	0613952Q84	CER CHIP RES 3000 OHM 5% 0402
R648	0613952R25	CER CHIP RES 100K OHM 5% 0402
R649	0613952R17	CER CHIP RES 47K OHM 5% 0402
RT400	0680590Z01	THERMISTOR_33K
S501	4080710Z21	Switch, Frequency
SH100	2680507Z02	Shield, Harmonic Filter
SH101	2680510Z02	Shield, PA
SH201	2680511Z02	Shield, Synthesizer
SH202	2680511Z02	Shield, Synthesizer
SH241	2604120G02	AOBA VCO Shield

Circuit Ref	Motorola Part No.	Description
SH242	2680514Z02	Shield, VCO Bottom/LVZIF
SH301	2686583Z01	Shield,RFI/EMI,,12.51MMLG,12MMW,2.9
SH302	2680555Z02	Shield, Receiver F/End Bottom
SH303	2680509Z01	Shield, MIXER
SH304	2680624Z02	Shield, MIXER DIODE
SH322	2686528Z01	Shield,RFI/EMI,CRS,TIN
SH323	2686527Z02	Shield, RFI/EMI, CRS, TIN
SH400	2680505Z02	Shield, Controller Top Left
SH401	2680506Z02	Shield, Controller Top Right
SH402	2680515Z02	Shield, Controller Bottom Left
SH403	2680516Z02	Shield, Controller BTM Right
T301	2515121H01	Balun, Transformer
T302	2515121H01	Balun, Transformer
U101	5115678H01	VHF/UHF/800/900 MHZ LDMOS DRIVER IC
U102	5185765B26	IC PWR CTRL IN MOS20
U201	5115060H01	IC,FREQ SYN,,AT24701-OT4X
U210	5115266H01	Inverter TC7ST04FU SS0P5-P-A
U211	5115266H01	Inverter TC7ST04FU SS0P5-P-A
U241	5105750U56	IC PKG DIE VCO Buffer
U247	5115026H01	IC,LOW DROPOUT,,SM,SOT-23/6,,,,,P
U248	5115019H01	IC,LOW DROPOUT,,SOT-23,SOT-23
U301	5115281H01	FM IF IC SA616 FROM PHILIPS
U302	5115070H01	IC,INVTR,,TC7W04FU,,SSOP
U303	NOTPLACED	-
U400	5115012H01	IC,ADJ LOW DROP-OUT,,SM,,,,,,POS P
U404	5115062H01	IC,CUST,,,TQFP48
U405	NOTPLACED	-
U406	5115250H02	NEED CGISS DESCRIPTION IN ICCS
U407	5115033H01	IC,EEPROM,,16K X 8,,SM
U409	5185143E03	IC,MICROP,,QFP,QFP100,,3.7MHZ
U410	5102463J57	Regulator 3.3V, ILC7062CM-33
U420	5115280H01	Audio Amplifier TDA8547TS
U602	5115014H01	IC,COMPTR,,SM,SOT-23/5
VR432	4815057H01	Diode Array,ZEN,MMQA5V6T1,SM,,3A,5.

Circuit Ref	Motorola Part No.	Description
VR433	4815057H01	Diode Array,ZEN,MMQA5V6T1,SM,,3A,5.
VR434	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR439	4815068H01	Diode Array,ZEN,MMBZ5242BLT1G,SM,,
VR440	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR441	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR442	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR443	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR444	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR445	4815039H01	Diode Array,ZEN,MM3Z10VT1G,SM,,10V
VR446	4815039H01	Diode Array,ZEN,MM3Z10VT1G,SM,,10V
VR447	4815039H01	Diode Array,ZEN,MM3Z10VT1G,SM,,10V
VR448	4815039H01	Diode Array,ZEN,MM3Z10VT1G,SM,,10V
VR449	4815039H01	Diode Array,ZEN,MM3Z10VT1G,SM,,10V
VR450	4815040H01	Diode Array ,ZEN,MM3Z12VT1G,SM,,12
VR460	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
VR501	4813977M14	Diode,ZEN,,,SOT-23,6.8V,,,225W,,PB
VR506	4815038H01	Diode Array,ZEN,,SM,SOD-323,,6.93V,
Y300	4802245J84	XTAL 44.395MHz, 3RD OT, SMD
Y301	9186145B02	CER.DISCR. CDBCA455CX36-TC
	8415235H01	UHF B2 PC Board

9.18 UHF Band 2 Circuit Board/Schematic Diagrams and Parts List

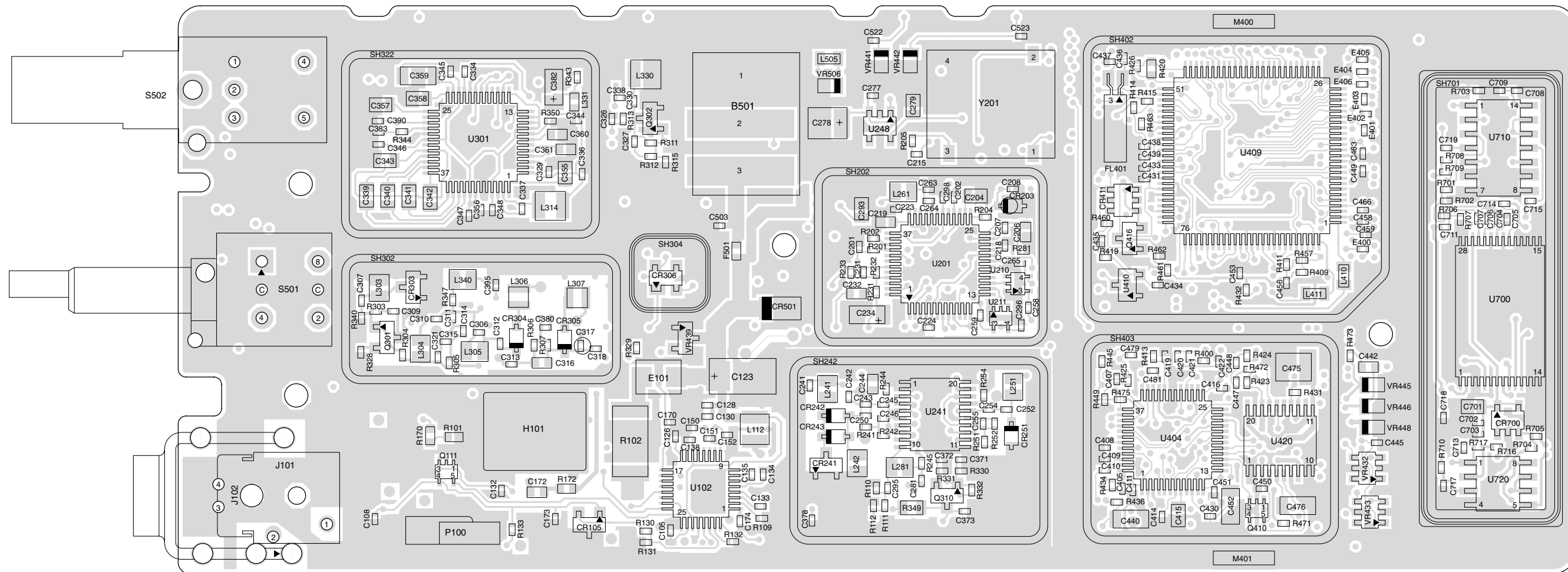
VIEWED FROM SIDE 1



ZMY0130258-O

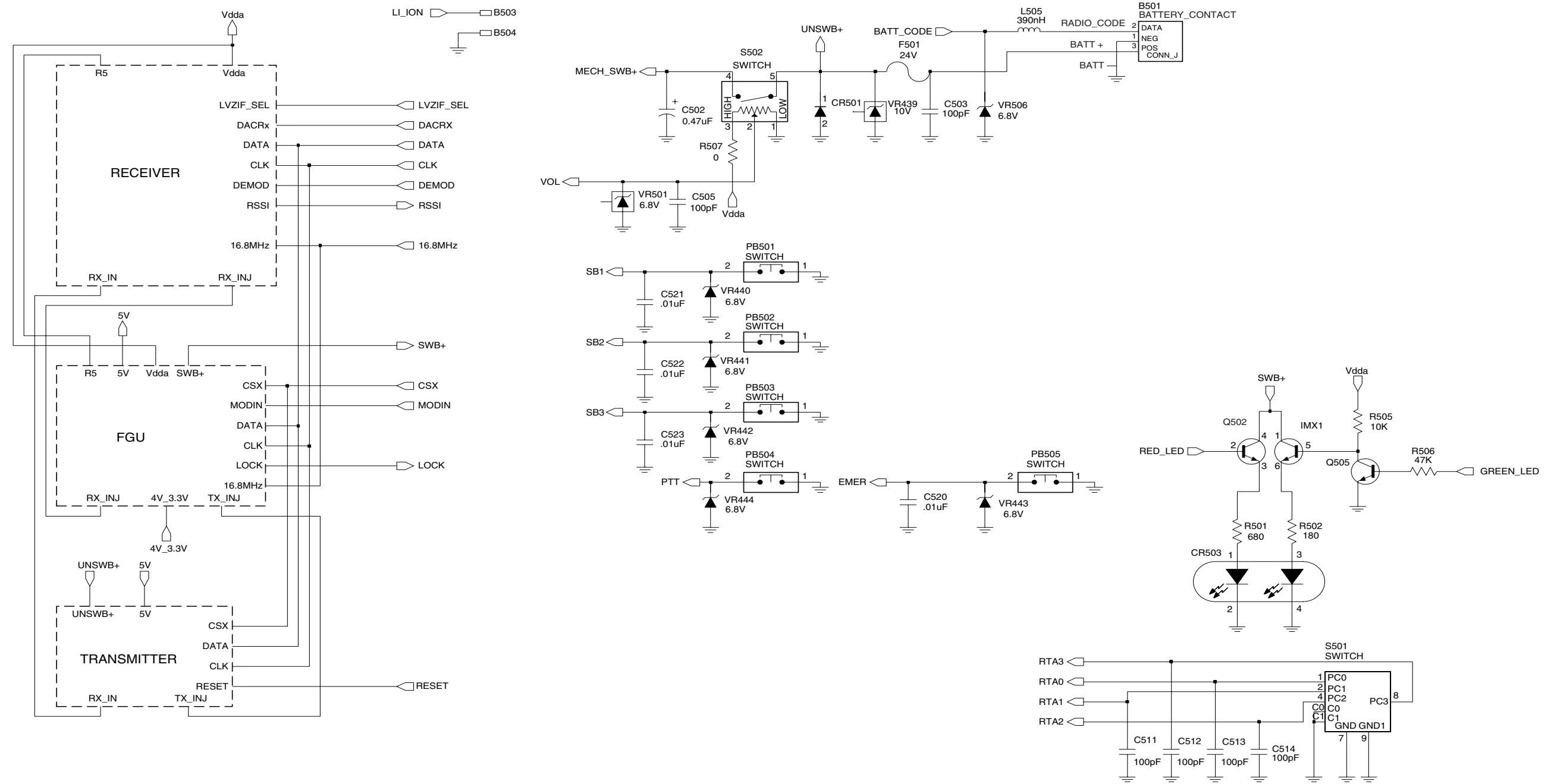
Figure 9-156. UHF (450-527 MHz) 9000 Series Main Board Top Side PCB

VIEWED FROM SIDE 2



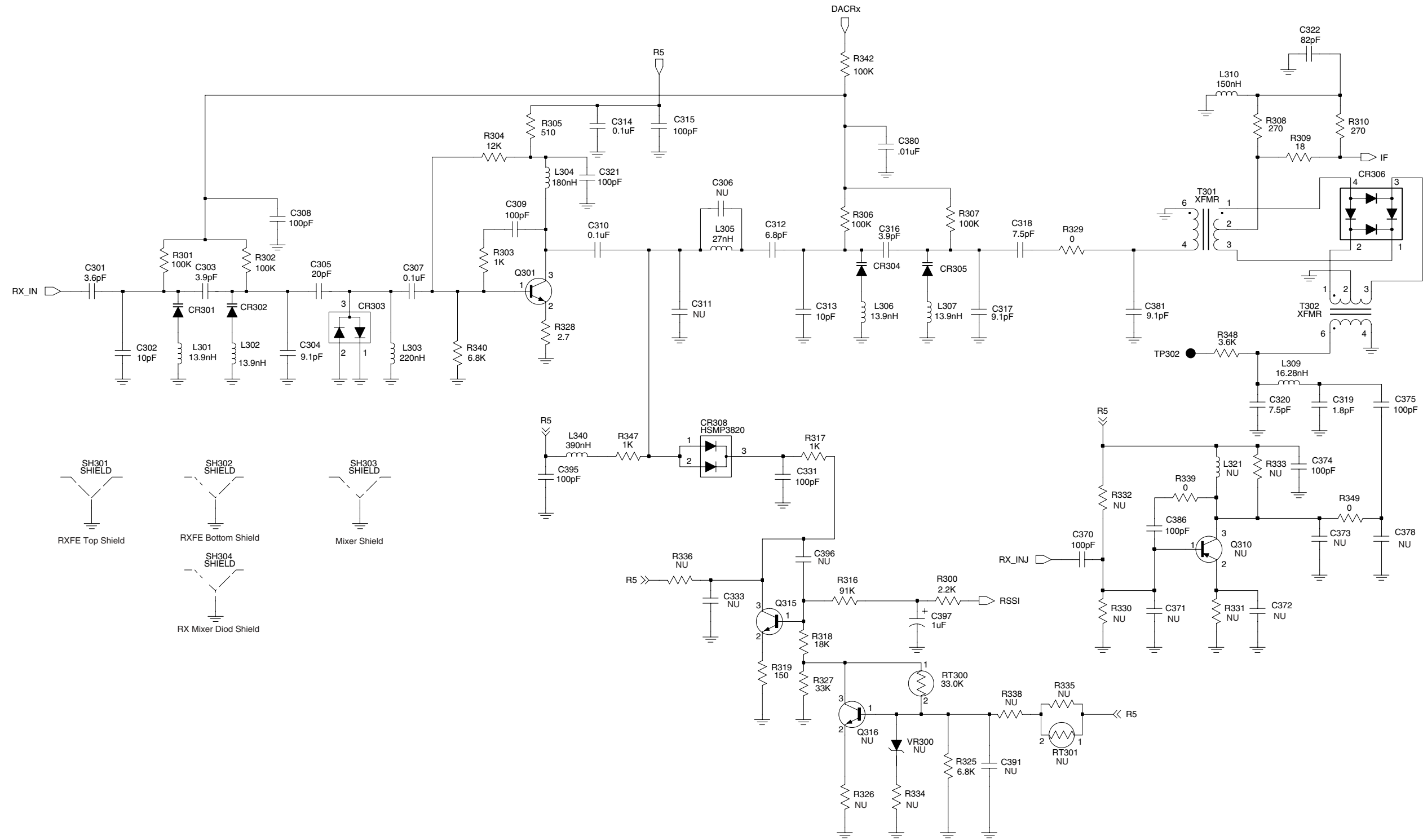
ZMY0130259-O

Figure 9-157. UHF (450-527 MHz) 9000 Series Main Board Bottom Side PCB



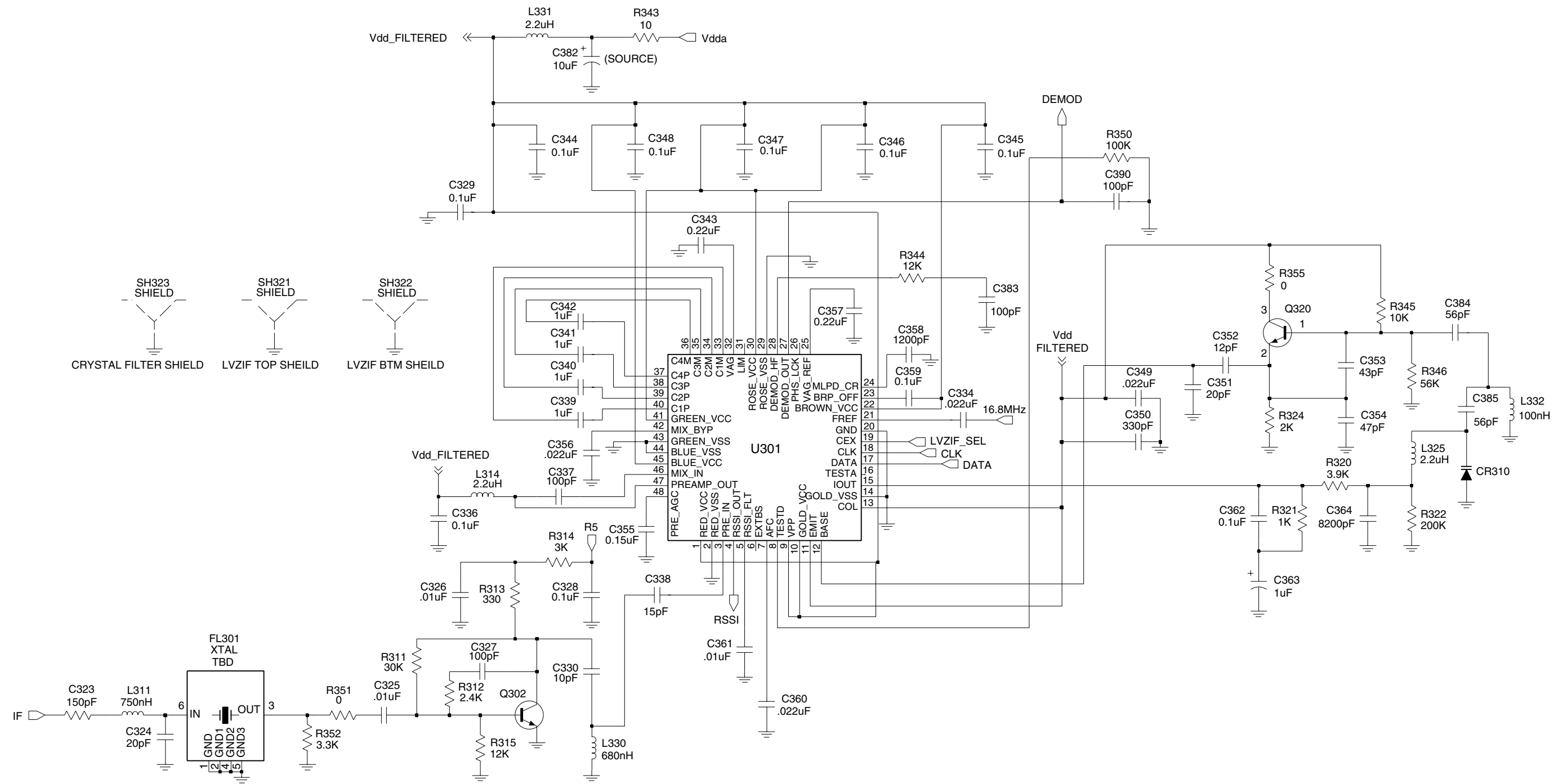
FL08307410

Figure 9-158. UHF (450-527 MHz) Controls and Switches Schematic Diagram



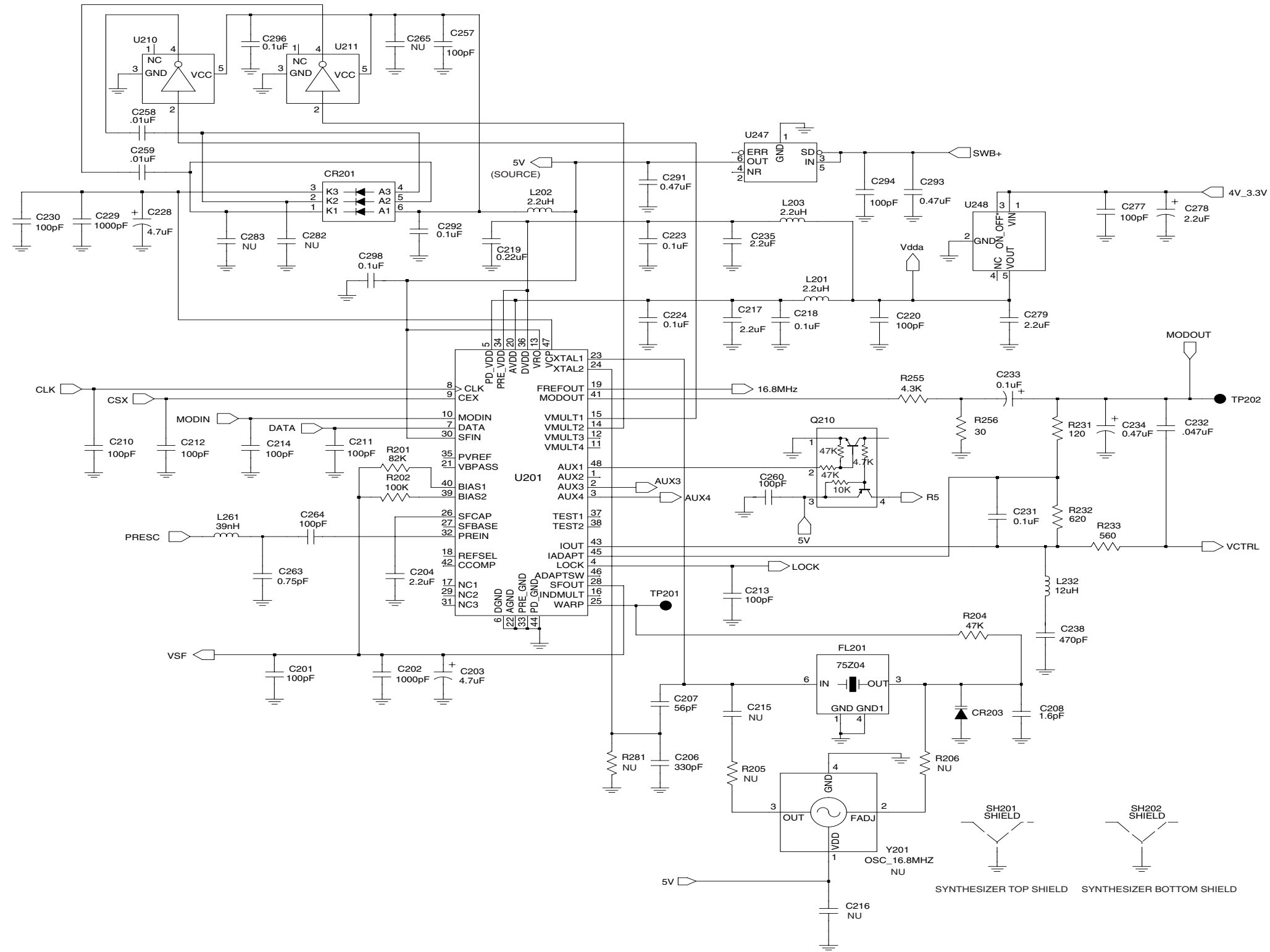
FL08307420

Figure 9-159. UHF (450-527 MHz) Receiver Front End Schematic Diagram



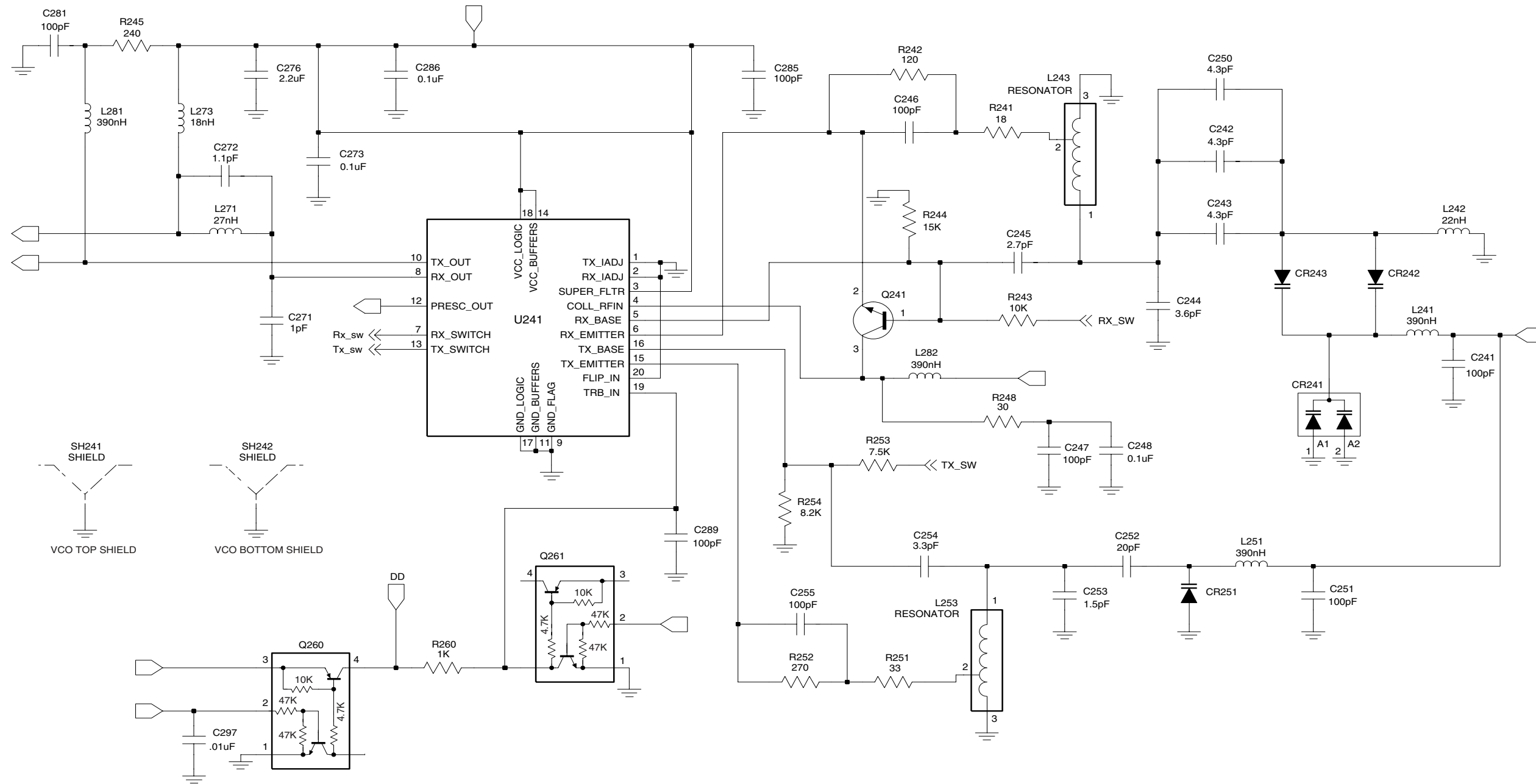
FL08307430

Figure 9-160. UHF (450-527 MHz) Receiver Back End Schematic Diagram



FL0830751O

Figure 9-161. UHF (450-527 MHz) Synthesizer Schematic Diagram



FL08307520

Figure 9-162. UHF (450-527 MHz) Voltage Controlled Oscillator Schematic Diagram

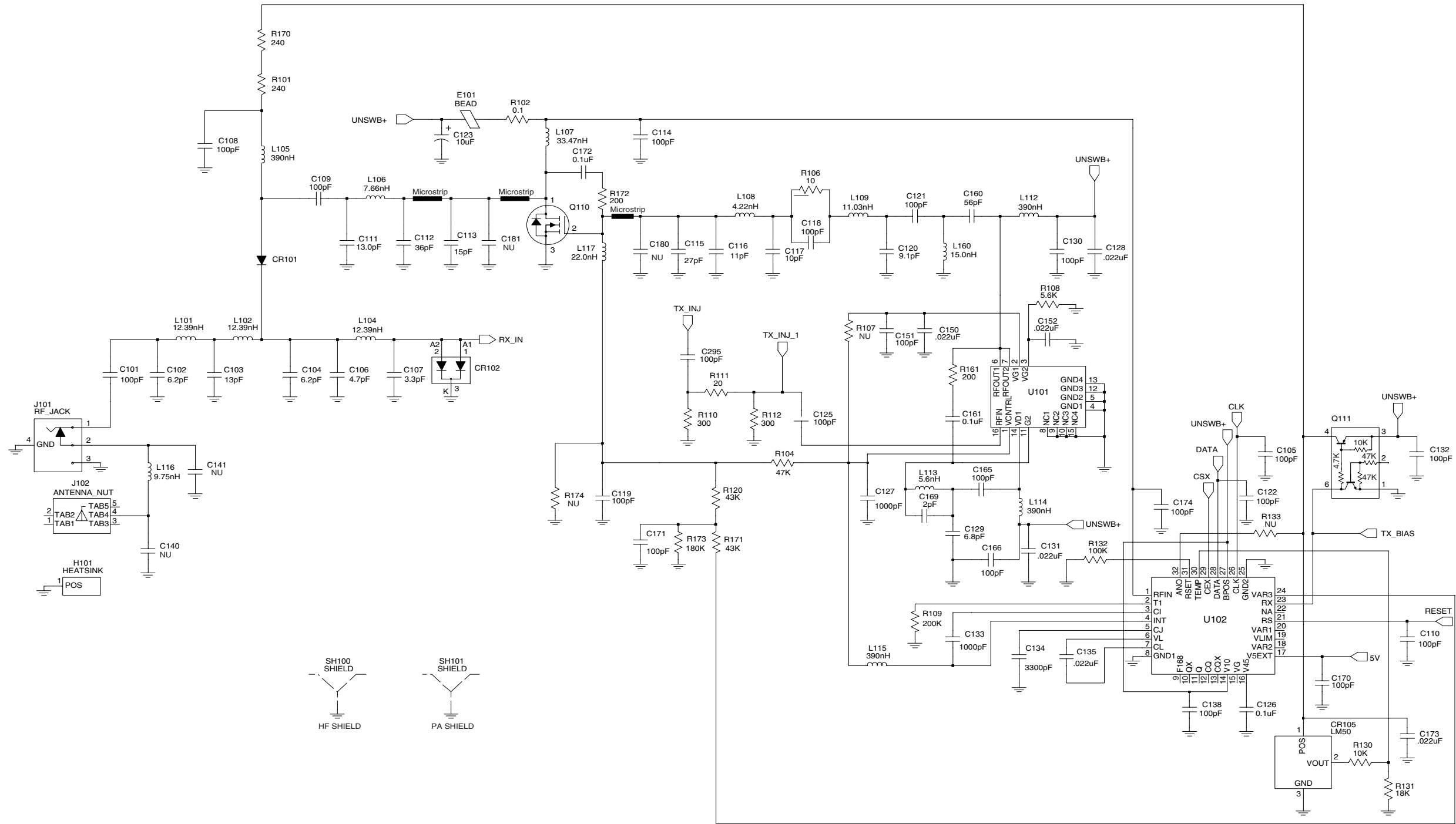


Figure 9-163. UHF (450-527 MHz) Transmitter Schematic Diagram

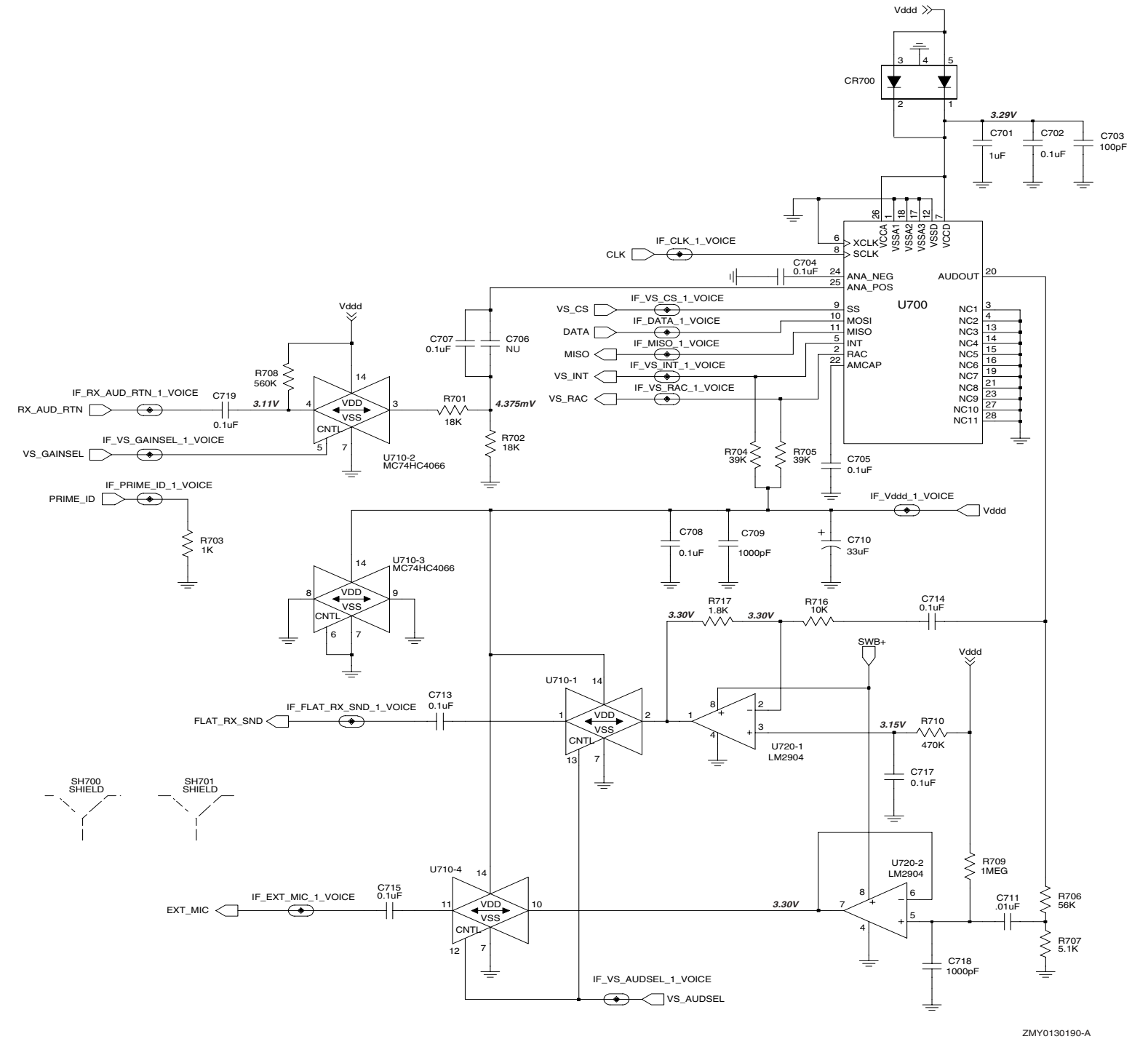


Figure 9-164. UHF (450-527 MHz) Voice Storage Schematic Diagram

UHF (450-527 MHz) 9000 Series Radio Parts List

Circuit Ref	Motorola Part No.	Description
B501	0986237A02	Battery Contact Module
B503	3980502Z01	Backup battery B+
B504	3980501Z01	Backup battery B-
C101	2113740F51	100pF
C102	2113740F22	6.2pF
C103	2113740F27	10pF
C104	2113740F22	6.2pF
C105	2113743N50	100pF
C106	2113740F19	4.7pF
C107	2113740F15	3.3pF
C108	2113743N50	100pF
C109	2113740F51	100pF
C110	2113743N50	100pF
C111	2113740F30	13pF
C112	2180605Z32	47pF
C113	2180605Z16	10pF
C114	2113743N50	100pF
C115	2113743N30	15.0pF
C116	2113743N38	33.0pF
C117	2113743N37	30.0pF
C118	2113743N50	100pF
C119	2113743N50	100pF
C120	2113743N26	10pF
C121	2113743N50	100pF
C122	2113743N50	100pF
C123	2311049A18	10uF
C125	2113743N50	100pF
C126	2113743M24	0.1uF
C127	2113743L17	1000pF
C128	2113743M08	0.022uF
C129	2113743N23	7.5pF
C130	2113743N50	100pF
C131	2113743M08	0.022uF
C132	2113743N50	100pF
C133	2113743L17	1000pF
C134	2113743L29	3300pF
C135	2113743M08	0.022uF
C138	2113743N50	100pF
C150	2113743M08	0.022uF
C151	2113743N50	100pF
C152	2113743M08	0.022uF
C160	2113743N50	100pF
C161	2113743M24	0.1uF
C165	2113743N50	100pF
C166	2113743N50	100pF
C169	2113743N20	5.6pF
C170	2113743N50	100pF
C171	2113743N50	100pF
C172	2113740F51	100pF
C173	2113743M08	0.022uF
C174	2113743N50	100pF
C201	2113743N50	100pF
C202	2113743L17	1000pF
C203	2311049A56	4.7pF

Circuit Ref	Motorola Part No.	Description
C204	2104993J02	2.2uF
C206	2113740F63	330pF
C207	2113743N44	56.0pF
C208	2113743N08	1.6pF
C210	2113743N50	100pF
C211	2113743N50	100pF
C212	2113743N50	100pF
C213	2113743N50	100pF
C214	2113743N50	100pF
C217	2104993J02	2.2uF
C218	2113743M24	0.1uF
C219	2113743K16	0.220uF
C220	2113743N50	100pF
C223	2113743M24	0.1uF
C224	2113743M24	0.1uF
C228	2311049J11	4.7uF
C229	2113743L17	1000pF
C230	2113743N50	100pF
C231	2113743M24	0.1uF
C232	2113743E12	0.047uF
C233	2311049A01	0.1pF
C234	2311049A05	0.47pF
C235	2104993J02	2.2uF
C238	2113741F17	470pF
C241	2113743N50	100pF
C242	2113743N23	7.5pF
C243	2113743N23	7.5pF
C244	2113740F10	2.0pF
C245	2113743N11	2.4pF
C246	2113743N50	100pF
C247	2113743N50	100pF
C248	2113743M24	0.1uF
C250	2113743N23	7.5pF
C251	2113743N50	100pF
C252	2113743N26	10pF
C253	2113740F09	1.8pF
C254	2113743N15	3.6pF
C255	2113743N50	100pF
C257	2113743N50	100pF
C258	2113743L41	0.01uF
C259	2113743L41	0.01uF
C260	2113743N50	100pF
C263	2113743N02	0.75pF
C264	2113743N50	100pF
C273	2113743M24	0.1uF
C276	2104993J02	2.2uF
C277	2113743N50	100pF
C278	2311049A09	2.2uF
C279	2104993J02	2.2uF
C281	2113743N50	100pF
C285	2113743N50	100pF
C286	2113743M24	0.1uF
C289	2113743N50	100pF
C291	2311049A69	10.0uF
C292	2113743M24	0.1uF
C293	2113743A27	0.470uF

Circuit Ref	Motorola Part No.	Description
C294	2113743N50	100pF
C295	2113743N50	100pF
C296	2113743M24	0.1uF
C297	2113743L41	0.01uF
C298	2113743M24	0.1uF
C301	2113743N15	3.6pF
C302	2113743N26	10pF
C303	2113740L08	3.9pF
C304	2113743N26	10pF
C305	2113743N33	20.0pF
C307	2113743M24	0.1uF
C308	2113743N50	100pF
C309	2113743N50	100pF
C310	2113743M24	0.1uF
C312	2113743N25	9.1pF
C313	2113743N26	10pF
C314	2113743M24	0.1uF
C315	2113743N50	100pF
C316	2113740L08	3.9pF
C317	2113743N25	9.1pF
C318	2113743N23	7.5pF
C319	2113743N69	1.8pF
C320	2113743N23	7.5pF
C321	2113743N50	100pF
C322	2113743N48	82.0pF
C323	2113743N54	150pF
C324	2113743N33	20.0pF
C325	2113743L41	0.01uF
C326	2113743L41	0.01uF
C327	2113743N50	100pF
C328	2113743M24	0.1uF
C329	2113743M24	0.1uF
C330	2113743N26	10pF
C331	2113743N50	100pF
C334	2113743M08	0.022uF
C336	2113743M24	0.1uF
C337	2113743N50	100pF
C338	2113743N30	15.0pF
C339	2180478Z20	1.0uF
C340	2180478Z20	1.0uF
C341	2180478Z20	1.0uF
C342	2180478Z20	1.0uF
C343	2113743A23	0.220uF
C344	2113743M24	0.1uF
C345	2113743M24	0.1uF
C346	2113743M24	0.1uF
C347	2113743M24	0.1uF
C348	2113743M24	0.1uF
C349	2113743E07	0.022uF
C350	2113743L05	330pF
C351	2113743N33	20.0pF
C352	2113743N28	12.0pF
C353	2113743N41	43.0pF
C354	2113743N42	47.0pF
C355	2113743A24	0.330uF
C356	2113743M08	0.022uF

Circuit Ref	Motorola Part No.	Description
C357	2113743A23	0.220uF
C358	2113741A23	1200pF
C359	2109720D14	0.1uF
C360	2113743E07	0.022uF
C361	2113741F49	10NF
C362	2113743M08	0.022uF
C363	2311049A40	2.2uF
C364	2113743L41	0.01uF
C370	2113743N50	100pF
C374	2113743N50	100pF
C375	2113743N50	100pF
C380	2113743L41	0.01uF
C381	2113743N21	6.2pF
C382	2311049A59	10uF
C383	2113743N50	100pF
C384	2113743N44	56.0pF
C385	2113743N44	56.0pF
C386	2113743N50	100pF
C390	2113743N50	100pF
C395	2113743N50	100pF
C397	2311049A05	0.47pF
C400	2113743L41	0.01uF
C401	2113743M24	0.1uF
C402	2113743M24	0.1uF
C403	2113928D08	10.0uF
C407	2113928N01	0.1uF
C408	2113743N50	100pF
C409	2113743M24	0.1uF
C410	2113928N01	0.1uF
C411	2113743M24	0.1uF
C414	2113743M24	0.1uF
C415	2109720D01	0.01uF
C416	2113928N01	0.1uF
C420	2113743L41	0.01uF
C421	2113928N01	0.1uF
C422	2113743M24	0.1uF
C423	2113743N50	100pF
C424	2311049A59	10uF
C425	2113743M24	0.1uF
C426	2113743N50	100pF
C427	2113743N50	100pF
C428	2113743M24	0.1uF
C429	2113743M24	0.1uF
C430	2113928N01	0.1uF
C431	0662057M01	0 (SUB on Models LS+ Only)
C431	2113743N50	100pF
C433	2113743L41	0.01uF
C434	2113743M24	0.1uF (not used in HT750 or PRO5150)
C435	2113743M24	0.1uF
C436	2113743N34	22.0pF (not used in HT750 or PRO5150)
C437	2113743N34	22.0pF (not used in HT750 or PRO5150)
C440	2113743G26	4.7uF
C441	2113743N50	100pF

Circuit Ref	Motorola Part No.	Description
C442	2113743E20	10uF
C443	2113928N01	0.1uF
C444	2113743N50	100pF
C445	2113743N50	100pF
C447	2113743M08	0.022uF
C448	2113928N01	0.1uF
C449	2113743N50	100pF
C451	2113743M08	0.022uF
C452	2113743G26	4.7uF
C453	2113743N50	100pF
C456	2113743N50	100pF
C458	2113743N50	100pF
C459	2113743N50	100pF
C463	2113743N50	100pF
C466	2113743N50	100pF
C467	2113928N01	0.1uF
C471	2113743N50	100pF
C472	2113743L09	470pF
C473	2113743L09	470pF
C475	2113743H14	10.0uF
C476	2113928D08	10.0uF
C479	2113928N01	0.1uF
C480	2113928D08	10.0uF
C481	2113928N01	0.1uF
C482	2113928N01	0.1uF, 10%
	0662057M01	0 (SUB on Models LS+ Only)
C490	2113743N50	100pF
C491	2113743N50	100pF
C492	2113743N50	100pF
C493	2113743N50	100pF
C494	2113743N50	100pF
C495	2113743N50	100pF
C496	2113743N50	100pF
C497	2113743N50	100pF
C502	2311049A05	0.47pF
C503	2113743N50	100pF
C505	2113743N50	100pF
C511	2113743N50	100pF
C512	2113743N50	100pF
C513	2113743N50	100pF
C514	2113743N50	100pF
C520	2113743L41	0.01uF
C521	2113743L41	0.01uF
C522	2113743L41	0.01uF
C523	2113743L41	0.01uF
CR101	4880973Z02	Pin Diode
CR102	4802245J41	Pin Diodes
CR105	5185963A15	Temperature Sense
CR201	4802233J09	Diode Triple
CR203	4862824C03	Varactor
CR241	4805649Q13	Dual Varactor
CR242	4862824C01	Varactor
CR243	4862824C01	Varactor
CR251	4802245J22	Varactor
CR301	4862824C01	Varactor
CR302	4862824C01	Varactor

Circuit Ref	Motorola Part No.	Description
CR303	4880154K03	Dual Common Anode-cathode
CR304	4862824C01	Varactor
CR305	4862824C01	Varactor
CR306	4802245J42	Ring Quad Diode
CR308	4802245J41	Pin Diodes
CR310	4862824C01	Varactor
CR411	4802245J47	Diode Schottky
CR412	4802245J47	Diode Schottky
CR413	4802245J47	Diode Schottky
CR440	4813833C02	Dual Diode Common Cathode
CR501	4880107R01	Rectifier
CR503	4805729G49	Led Red/yellow
E101	2484657R01	Ferrite Bead
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	Fuse 3A
FL201	4802245J49	16.8 MHz Xtal Clip (not field serviceable)
FL301	4802245J43	Crystal Filter 45.1 MHz
FL401	4870368G02	Clock Oscillator Crystal (not used in HT750 or PRO5150)
H101	2680499Z01	Heat Spreader
J101	0180117S05	RF Jack Assembly
J102	0280519Z02	Nut, Antenna
J400	0905505Y04	40 Pin Connector
J403	0905505Y02	20 Pin Connector
L101	2479990B02	19.61nH
L102	2479990B02	19.61nH
L104	2479990B02	19.61nH
L105	2462587N22	390nH
L106	2479990A02	7.66nH
L107	2479990G01	33.47nH
L108	2479990A01	4.22nH
L109	2479990B01	11.03nH
L112	2462587N45	22nH
L113	2413926H09	5.6nH
L114	2462587N22	390nH
L115	2462587N22	390nH
L116	2479990A03	9.75nH
L160	2413926H14	15.0nH
L201	2462587Q20	2.2uH
L202	2462587Q20	2.2uH
L203	2462587Q20	2.2uH
L232	2462587P25	12uH
L241	2462587V41	390nH
L242	2462587V38	220nH
L243	2460593C01	Teflon Resonator
L251	2462587V28	33nH

Circuit Ref	Motorola Part No.	Description
L253	2460593C02	Teflon Resonator
L261	2462587V29	39nH
L271	2462587V32	68nH
L273	2462587V28	33nH
L281	2462587V41	390nH
L282	2462587V41	390nH
L301	2479990C01	13.9nH
L302	2479990C01	13.9nH
L303	2462587V26	22nH
L304	2462587V37	180nH
L305	2462587V26	22nH
L306	2479990C01	13.9nH
L307	2479990C01	13.9nH
L309	2479990C02	16.28nH
L310	2462587V36	150nH
L311	2462587N65	750nH
L314	2462587N72	2.2uH
L325	2480646Z20	2.20uH
L330	2462587N64	680nH
L331	2480646Z20	2.20uH
L332	2462587N53	100nH
L340	2462587V41	390nH
L400	2462587Q42	390nH
L401	2462587Q42	390nH
L410	2462587Q42	390nH
L411	2462587Q42	390nH
L505	2462587Q42	390nH
P100	3905643V01	Ground Contact Finger
PB501	4080523Z01	Tactile Push Button
PB502	4080523Z01	Tactile Push Button
PB503	4080523Z01	Tactile Push Button
PB504	4080523Z01	Tactile Push Button
PB505	4080523Z01	Tactile Push Button
Q110	4802245J55	RF Power Fet
Q111	4802245J50	Dual NPN/PNP
Q210	4802245J50	Dual NPN/PNP
Q241	4805218N63	NPN
Q260	4802245J50	Dual NPN/PNP
Q261	4802245J50	Dual NPN/PNP
Q301	4802245J44	NPN
Q302	4802245J44	NPN
Q315	4880214G02	NPN
Q320	4805218N63	NPN
Q400	4809579E18	MOSFET P-Chan
Q403	4880214G02	NPN
Q405	4802245J54	Dual NPN
Q410	4802245J54	dual NPN
Q416	4809579E18	MOSFET P-Chan
Q417	4802245J50	Dual NPN/PNP
Q502	5180159R01	Dual NPN
Q505	4880214G02	NPN
R101	0662057A34	240
R102	0680735Z01	0.075
R103	0662057M41	43
R104	0662057N15	47K
R106	0662057M26	10

Circuit Ref	Motorola Part No.	Description
R108	0662057M92	5.6K
R109	0662057N30	200K
R110	0662057M61	300
R111	0662057M33	20
R112	0662057M61	300
R120	0662057N14	43K
R130	0662057M98	10K
R131	0662057N05	18K
R132	0662057N33	270K
R161	0662057M57	200
R170	0662057A34	240
R171	0662057N14	43K
R172	0662057A32	200
R173	0662057N29	180K
R201	0662057N21	82K
R202	0662057N23	100K
R204	0662057N15	47K
R231	0662057M52	120
R232	0662057M69	620
R233	0662057M68	560
R241	0662057M32	18
R242	0662057M57	200
R243	0662057M98	10K
R244	0662057N01	12K
R245	0662057M59	240
R248	0662057M37	30
R251	0662057M32	18
R252	0662057M62	330
R253	0662057M95	7.5K
R254	0662057M95	6.8K
R255	0662057M89	4.3K
R256	0662057M37	30
R260	0662057M74	1K
R300	0662057M82	2.2K
R301	0662057N23	100K
R302	0662057N23	100K
R303	0662057M74	1K
R304	0662057N01	12K
R305	0662057M67	0
R306	0662057N23	100K
R307	0662057N23	100K
R308	0662057M60	270
R309	0662057M32	18
R310	0662057M60	270
R311	0662057N10	30K
R312	0662057M83	2.4K
R313	0662057M62	330
R314	0662057M85	3K
R315	0662057N01	12K
R316	0662057A96	91K
R317	0662057M74	1K
R318	0662057A79	18K
R319	0662057A29	150
R320	0662057M74	1K
R321	0662057M83	2.4K
R322	0662057N30	200K

Circuit Ref	Motorola Part No.	Description
R324	0662057M81	2K
R325	0662057M94	6.8K
R327	0662057N11	33K
R328	0662057M12	2.7
R329	0662057M01	0
R339	0662057M01	0
R340	0662057M94	6.8K
R342	0662057N23	100K
R343	0662057M26	10
R344	0662057N01	12K
R345	0662057M98	10K
R346	0662057N17	56K
R347	0662057M74	1K
R348	0662057M87	3.6K
R349	0662057C01	0
R350	0662057N23	100K
R351	0662057C01	0
R352	0662057M86	3.3K
R355	0662057M01	0
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	0662057N13	39K
R418	0662057M01	0
R419	0662057M67	0 (not used in HT750 or PRO5150)
R420	0662057B46	10.0 MEG (not used in HT750 or PRO5150)
R421	0662057M81	2K
R423	0662057N39	470K
R424	0662057N12	36K
R425	0662057N10	30K
R426	0662057N35	330K (not used in HT750 or PRO5150)
R427	0662057M84	2.7K
R428	0662057M10	2.2
R429	0662057M98	10K
R431	0662057N39	470K
R432	0662057N16	51K
R434	0662057M62	330
R435	0662057M81	2K
R436	0662057M01	0
R445	0662057N08	24K
R446	0662057N31	220K
R447	0662057N51	1.5MEG
R448	0662057N33	270K
R449	0662057N08	24K
R450	0683962T45	68
R457	0662057M98	10K

Circuit Ref	Motorola Part No.	Description
R460	0662057M90	4.7K
R461	0662057M56	180 (not used in HT750 or PRO5150)
R462	0662057M98	10K (not used in HT750 or PRO5150)
R463	0662057M61	300
R471	0662057M92	5.6K
R472	0662057N12	36K
R473	0662057M26	10
R475	0662057M01	0
R476	0662057N08	24K
R477	0662057M74	1K
R478	0662057M98	10K
R481	0662057N08	24K
R492	0662057M01	0
R501	0662057M70	680
R502	0662057M56	180
R505	0662057M98	10K
R506	0662057N15	47K
R507	0662057M01	0
RT300	0680590Z01	Thermistor 33K
RT400	0680590Z01	Thermistor 33K
S501	4080710Z01	Channel Switch
S502	1880619Z01	Volume Switch
SH100	2680507Z01	Shield, Harmonic Filter
SH101	2680510Z01	Shield, Pa
SH201	2680511Z01	Synthesizer Top Shield
SH202	2680511Z01	Synthesizer Bottom Shield
SH241	2680513Z01	Shield, VCO Top
SH242	2680514Z01	Shield, VCO Bottom/LVZIF
SH301	2680554Z01	RX Pre Filter Shield
SH302	2680555Z01	RX Post Filter/RX Amp
SH303	2680509Z01	Shield, Mixer
SH304	2680624Z01	Shield, Mixer Diode
SH321	2680508Z01	Shield, LVZIF 2nd LO
SH322	2680514Z01	ZIF Shield
SH323	2680553Z01	Shield, Crystal Filter
SH400	2680505Z01	Controller Memory Shield
SH401	2680506Z01	On/off Controller Shield
SH402	2680515Z01	Microprocessor Controlled Shield
SH403	2680516Z01	Audio PA Controller Shield
T301	2580541Z01	Transformer Coil
T302	2580541Z01	Transformer Coil
U101	5105109Z67	LDMOS Driver UHF IC
U102	5185765B01	Power Control IC
U201	5185963A27	LVFRACN
U210	5102463J61	Inverter
U211	5102463J61	Inverter
U241	5105750U54	VCO Buffer
U247	5105739X05	Regulator Linear
U248	5102463J58	3.3v Regulator
U301	5109632D83	LVZIF 2.2
U400	5102463J40	3.3V Regulator
U404	5185963A53	ASFIC CMP
U405	5102463J36	Static RAM 32KX8 I
U406	*5102463J59	Flash ROM 128KX8

Circuit Ref	Motorola Part No.	Description
U407	*5102463J64	16K X 8 EEPROM (not used in HT750 or PRO5150)
	*5102463J62	8KX 8 EEPROM (not used in HT1250 or PRO7150)
U409	5102226J56	Microprocessor HC11FLO
U410	5102463J57	Regulator 3.3V (not used in HT750 or PRO5150)
U420	5102463J44	Audio PA
VR432	4805656W08	5.6V Zener
VR433	4805656W08	5.6V Zener
VR434	4802245J51	Zener 6.8V
VR439	4880140L15	10V Zener
VR440	4802245J51	Zener 6.8V
VR441	4802245J51	Zener 6.8V
VR442	4802245J51	Zener 6.8V
VR443	4802245J51	Zener 6.8V
VR444	4802245J51	Zener 6.8V
VR445	4802245J53	Zener 10V
VR446	4802245J53	Zener 10V
VR447	4802245J53	Zener 10V
VR448	4802245J53	Zener 10V
VR449	4802245J53	Zener 10V
VR450	4802245J53	Zener 10V
VR501	4813830A18	6.8V Zener
VR506	4802245J51	Zener 6.8V
	7580671Z01	Pad (Flexible Circuit)
	7580671Z01	Pad (Flexible Circuit)
Voice Storage Parts List		
C601	2311049A57	10uF
C602	2113743L41	0.01uF
C603	2311049C07	100uF
C701	2180478Z20	1uF
C702	2311049N01	0.1uF
C703	2311049A57	10uF
C704	2311049N01	0.1uF
C705	2311049N01	0.1uF
C706	2311049N01	0.1uF
C707	2311049N01	0.1uF
C708	2311049N01	0.1uF
C709	2311049A57	10uF
C710	2311049A30	33uF
C711	2311049N01	0.1uF
C712	2311049N01	0.1uF
C713	2311049N01	0.1uF
C714	2311049N01	0.1uF
C715	2311049N01	0.1uF
C716	2311049N01	0.1uF
C717	2180478Z20	1uF
C718	2180478Z20	1uF
CR601	4805129M76	
CR700	4802245J47	
L601	2480570Z01	68uH
R625	0662057M01	
R626	0662057M83	
R627	0662057M74	
R701	0662057N10	

Circuit Ref	Motorola Part No.	Description
R702	0662057M91	
R703	0662057N15	
R704	0662057N23	
R705	0662057N23	
R706	0662057N17	
R707	0662057M91	
R716	0662057N15	
R717	0662057N15	
U601	5105109Z74	
U700	5102463J53	
U710	5102463J52	
U720	5180932W01	

* Motorola Depot Servicing only