



PRO3150
Radio Portátil
ESQUEMAS

4.3.1 Cubiertas superior e inferior del teclado

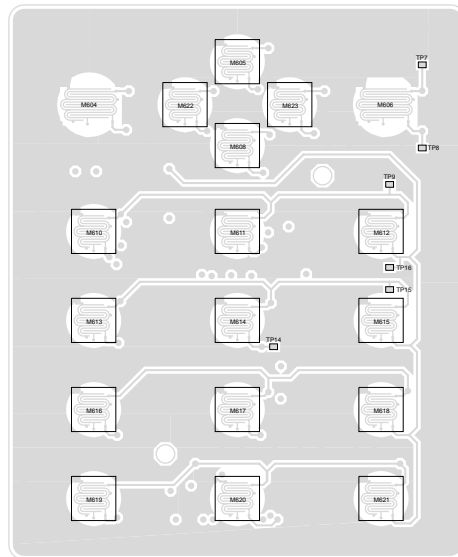


Figura 4-4. Cubierta superior del teclado

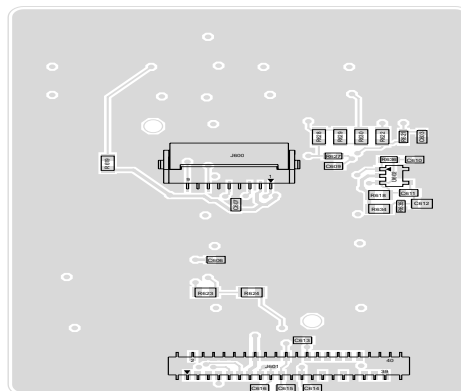


Figura 4-5 Cubierta inferior del teclado

4.4 Diagrama esquemático del conjunto micrófono-altavoz

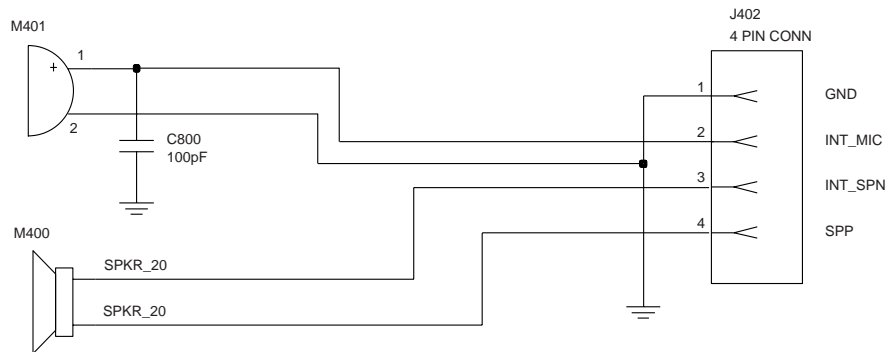


Figura 4-6. Diagrama esquemático del conjunto micrófono altavoz

4.4.1 Conjunto micrófono-altavoz

Tabla 4-1 Lista de piezas del conjunto micrófono-altavoz

Designador de referencia	No. de pieza Motorola	Descripción
C800	2113740A55	Capacitor, 100pF
M400	5085738Z02	Altavoz
M401	5013920A04	Micrófono, Mini Electret
	8485687Z01	Cable flexible, Micrófono
	09800727Z01	Conector, Conductor

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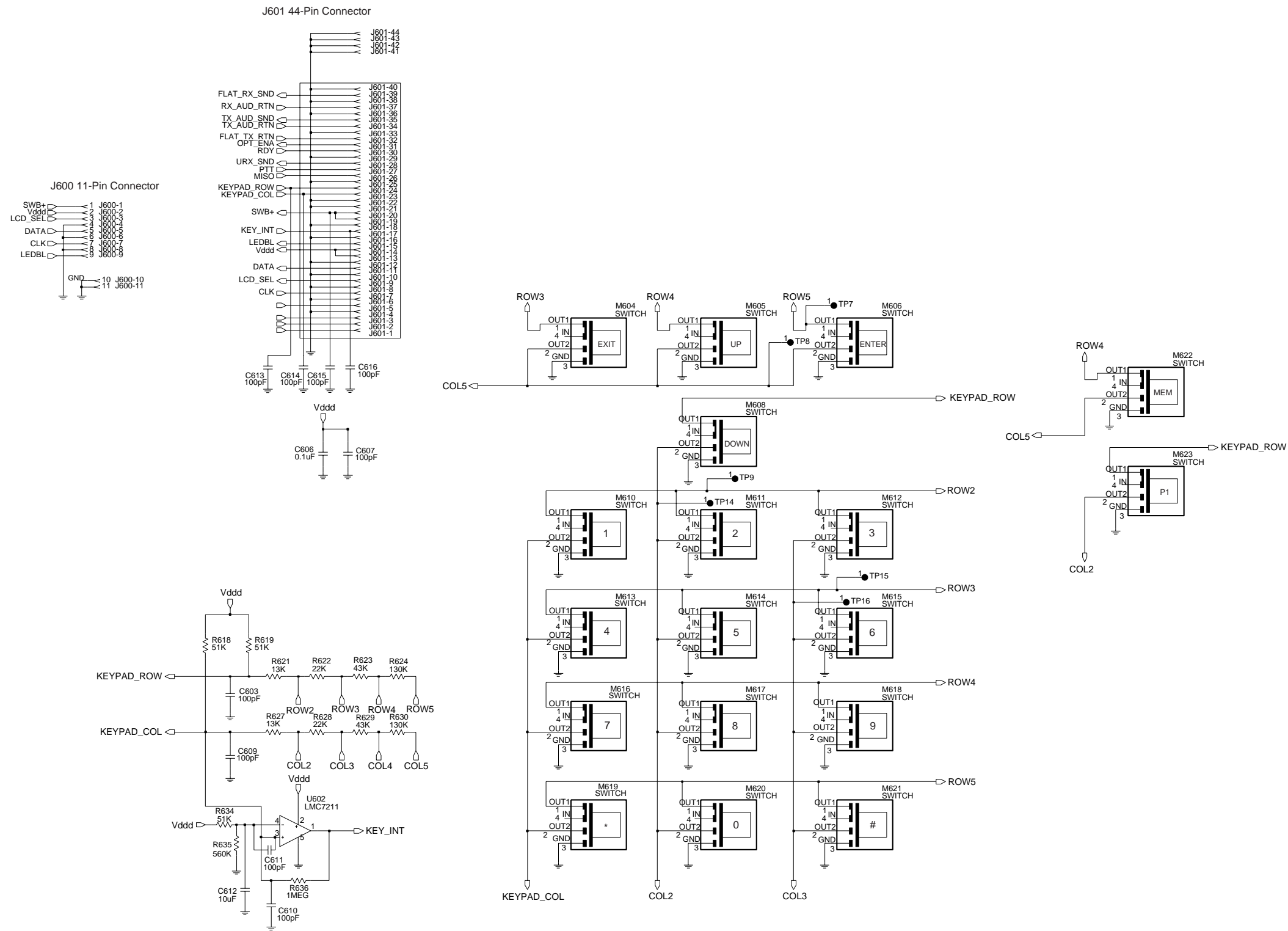


Figura 4-7. Diagrama esquemático de la tarjeta del teclado

Tabla 4-1 Lista de piezas de la tarjeta del teclado

Designador de referencia	No. de pieza Motorola	Descripción
C603	2113740F51	100pF
C606	2113743E20	0.1uF
C607	2113740F51	100pF
C609	2113740F51	100pF
C610	2113740F51	100pF
C611	2113740F51	100pF
C612	2113928D08	10uF
C613	2113740F51	100pF
C614	2113740F51	100pF
C615	2113740F51	100pF
C616	2113740F51	100pF
J600	0985627Z01	Conector 11 pines
J601	0980521Z01	Conector 44 pines
R618	0660076E90	51K
R619	0660076E90	51K
R621	0662057P15	13K
R622	0660079J37	22K
R623	0660079J72	43K
R624	0662057G19	130K
R627	0662057P15	13K
R628	0660079J37	22K
R629	0660079J72	43K
R630	0662057G19	130K
R634	0660076E90	51K
R635	0662057B16	560K
R636	0662057B22	1Meg
U602	5102463J49	Comparador LMC721
	8485642Z01	Tarjeta de circuito impreso

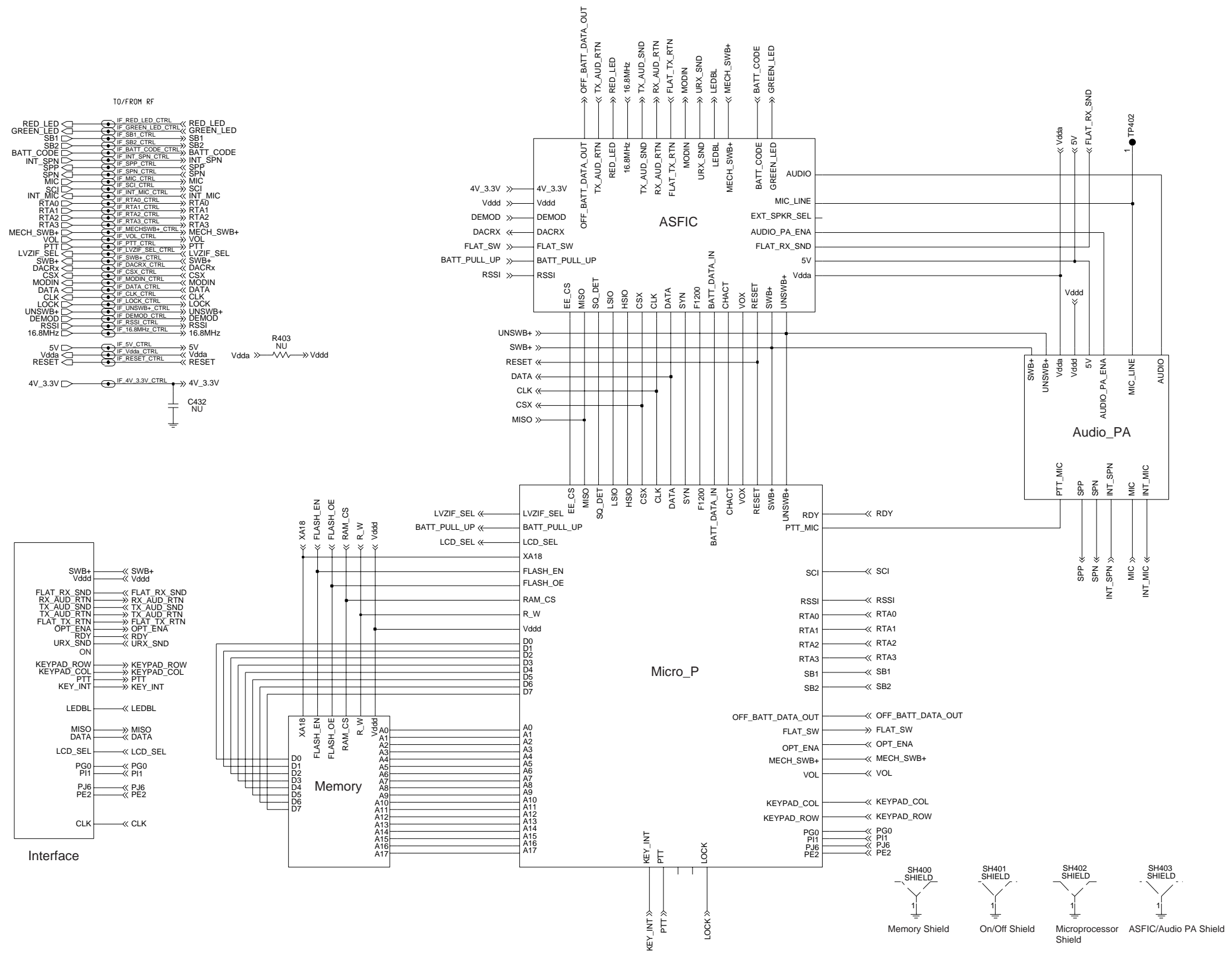


Figura 4-8. Diagrama esquemático completo del controlador

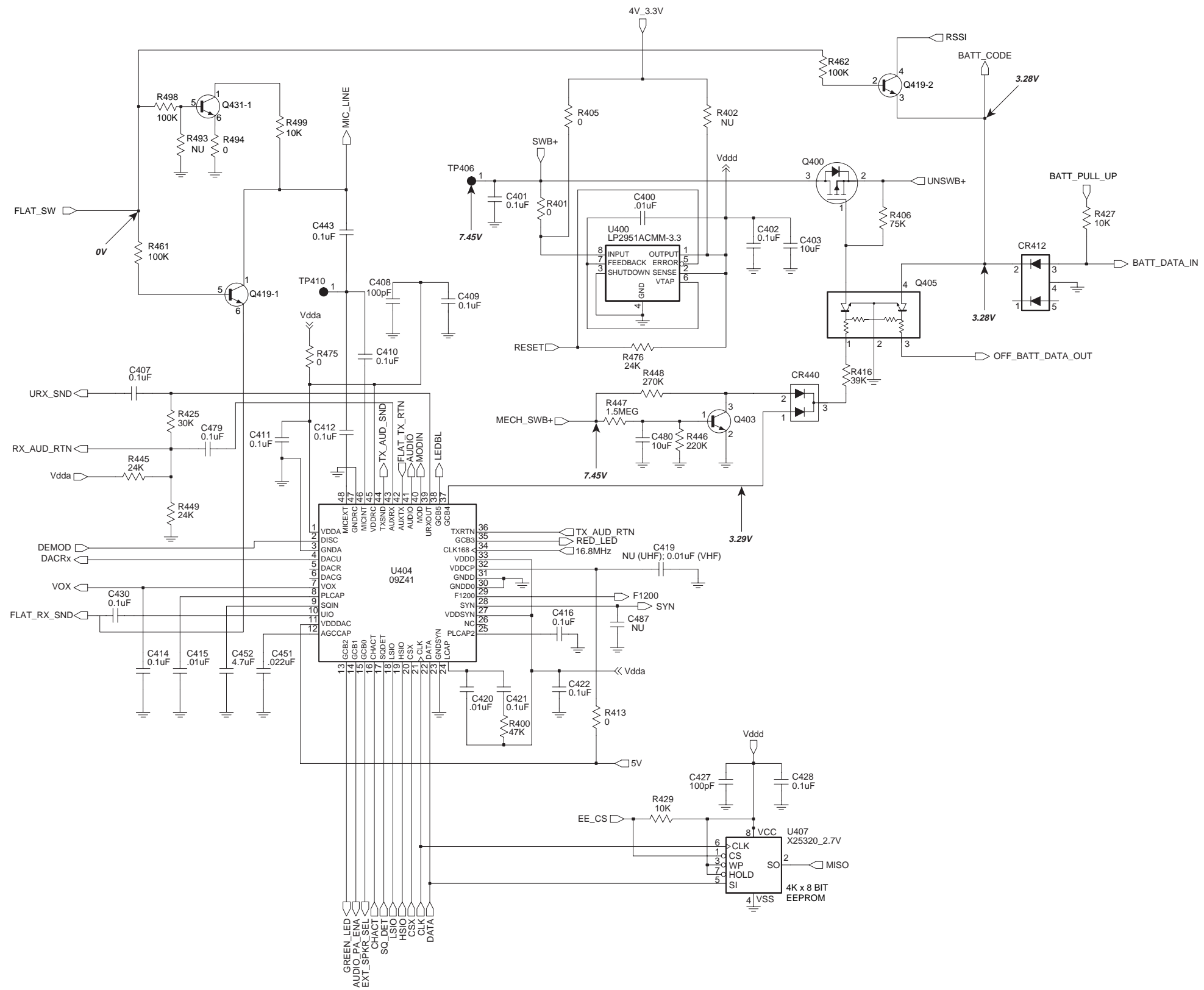


Figura 4-9. Diagrama esquemático del controlador ASFIC/ON_OFF

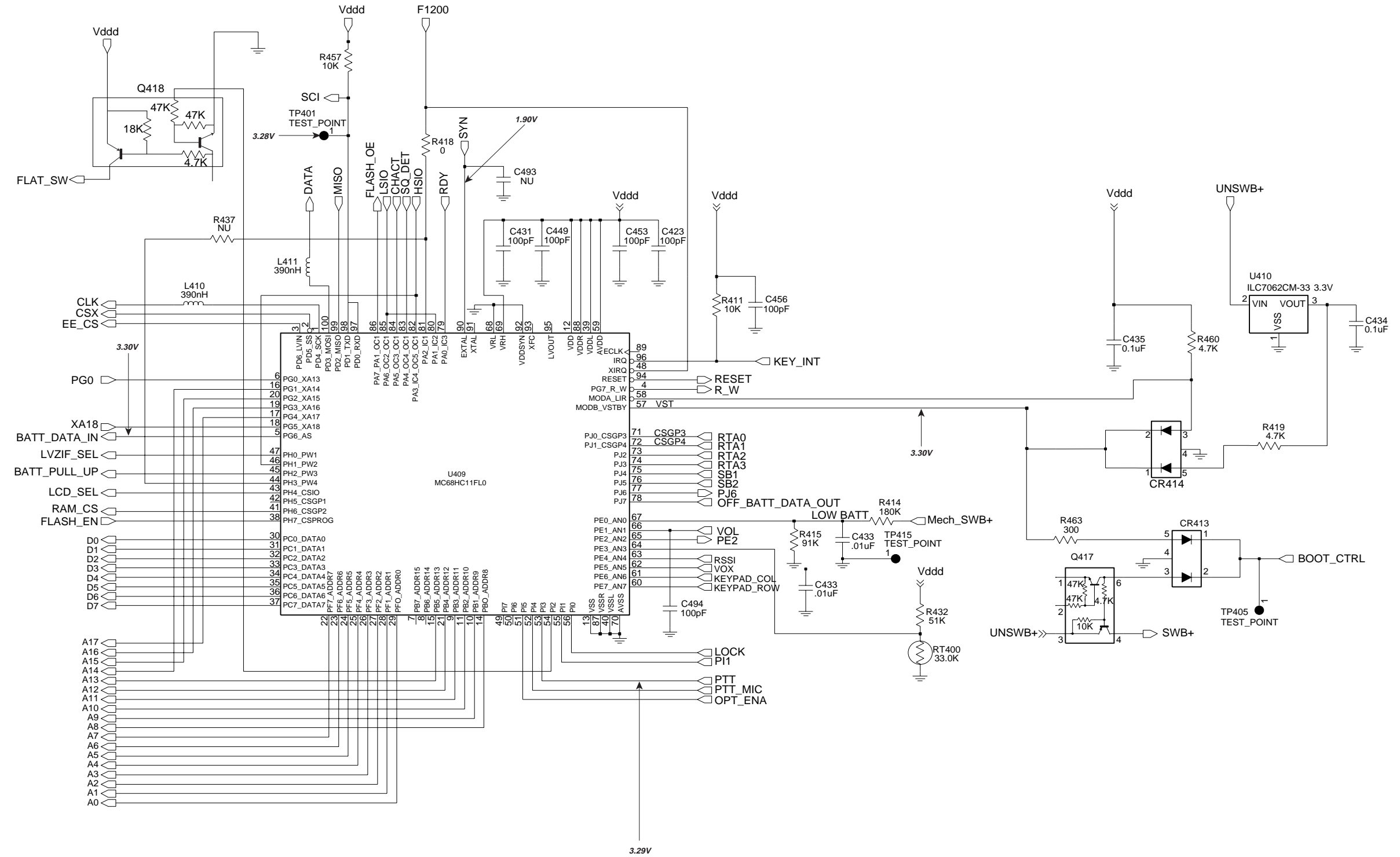


Figura 4-10. Diagrama esquemático del microprocesador del controlador

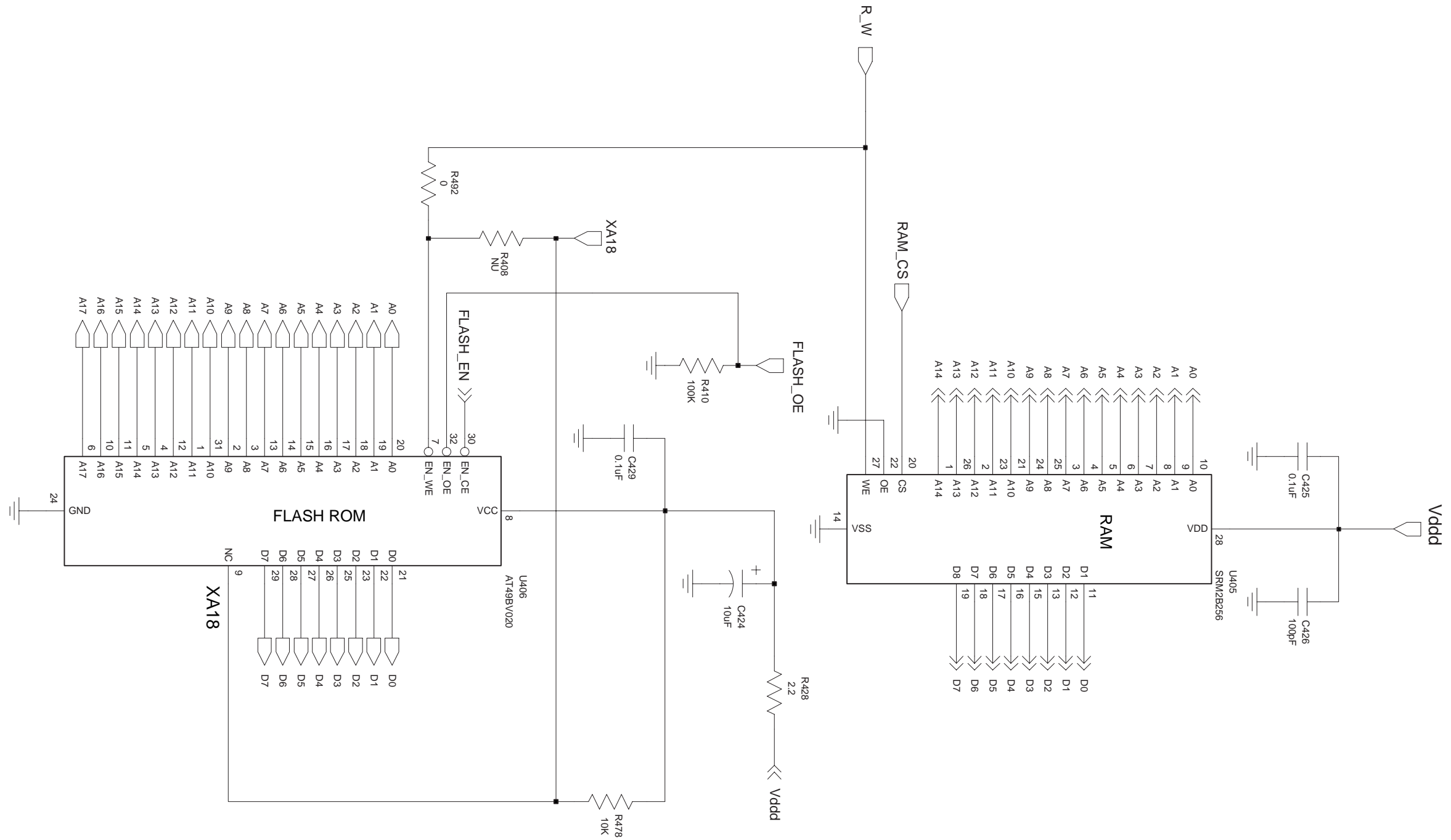


Figura 4-11. Diagrama esquemático de la memoria del controlador

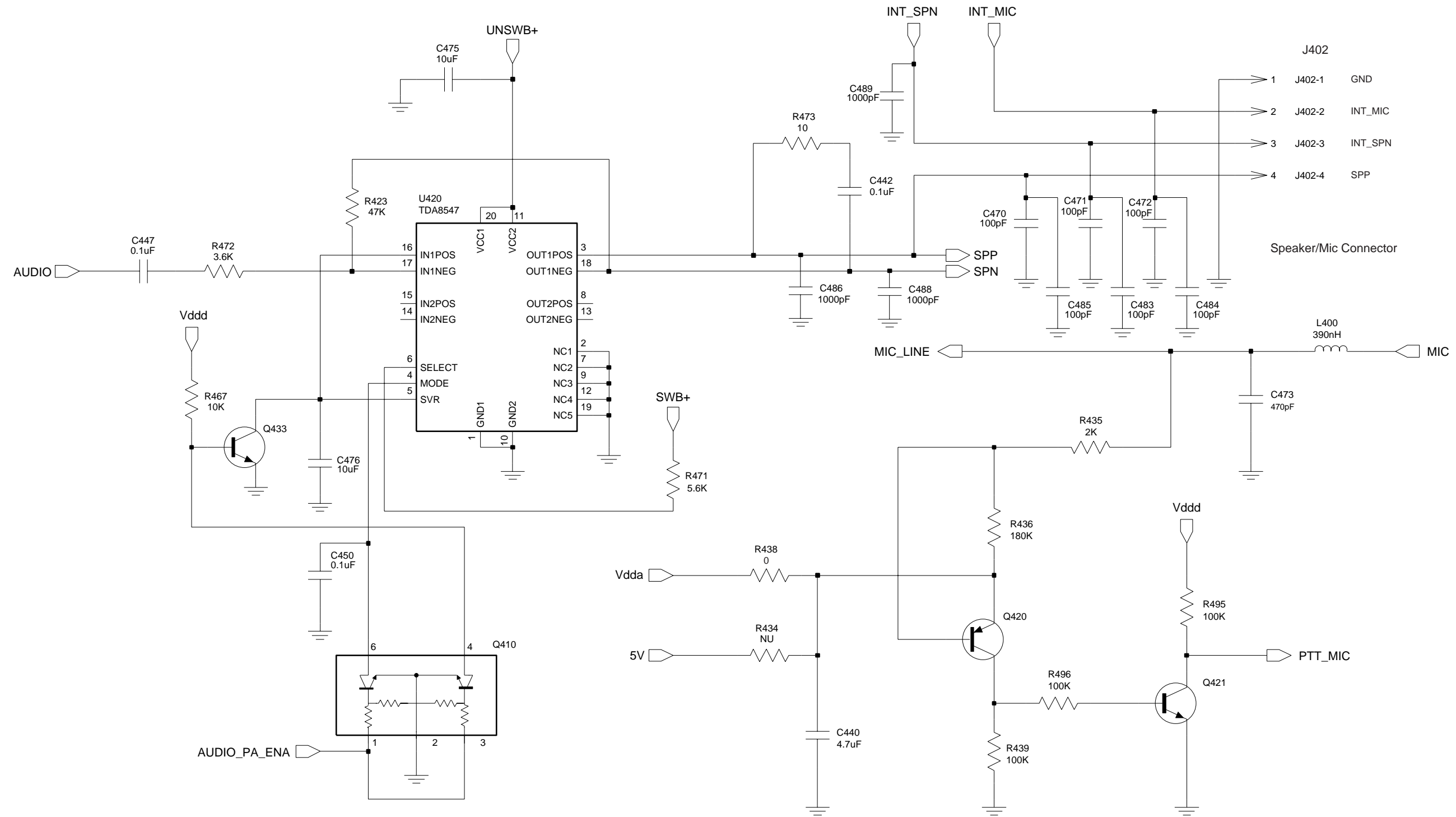


Figura 4-12. Diagrama esquemático del amplificador de potencia de audio

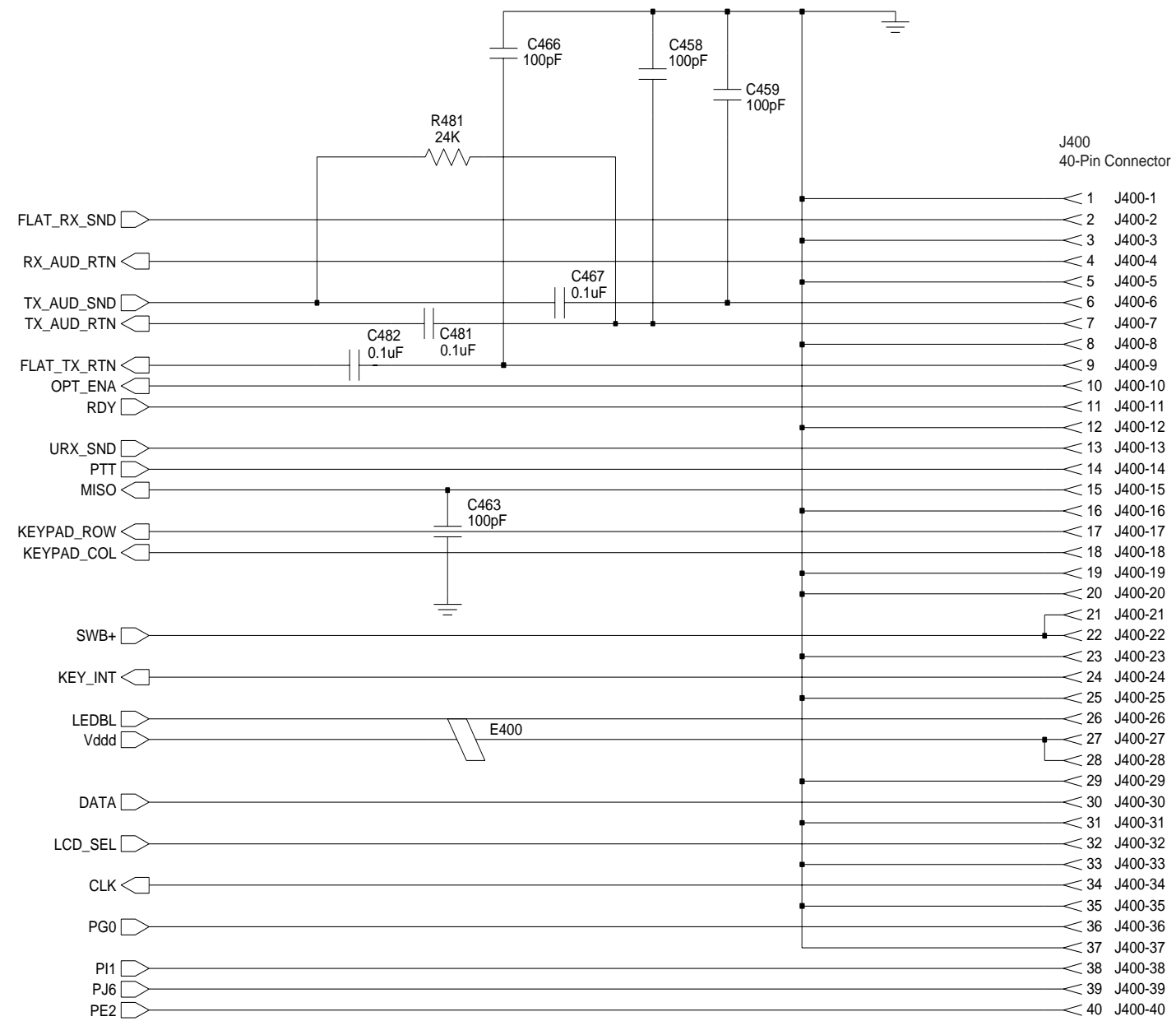


Figura 4-13. Diagrama esquemático de la interfaz del controlador

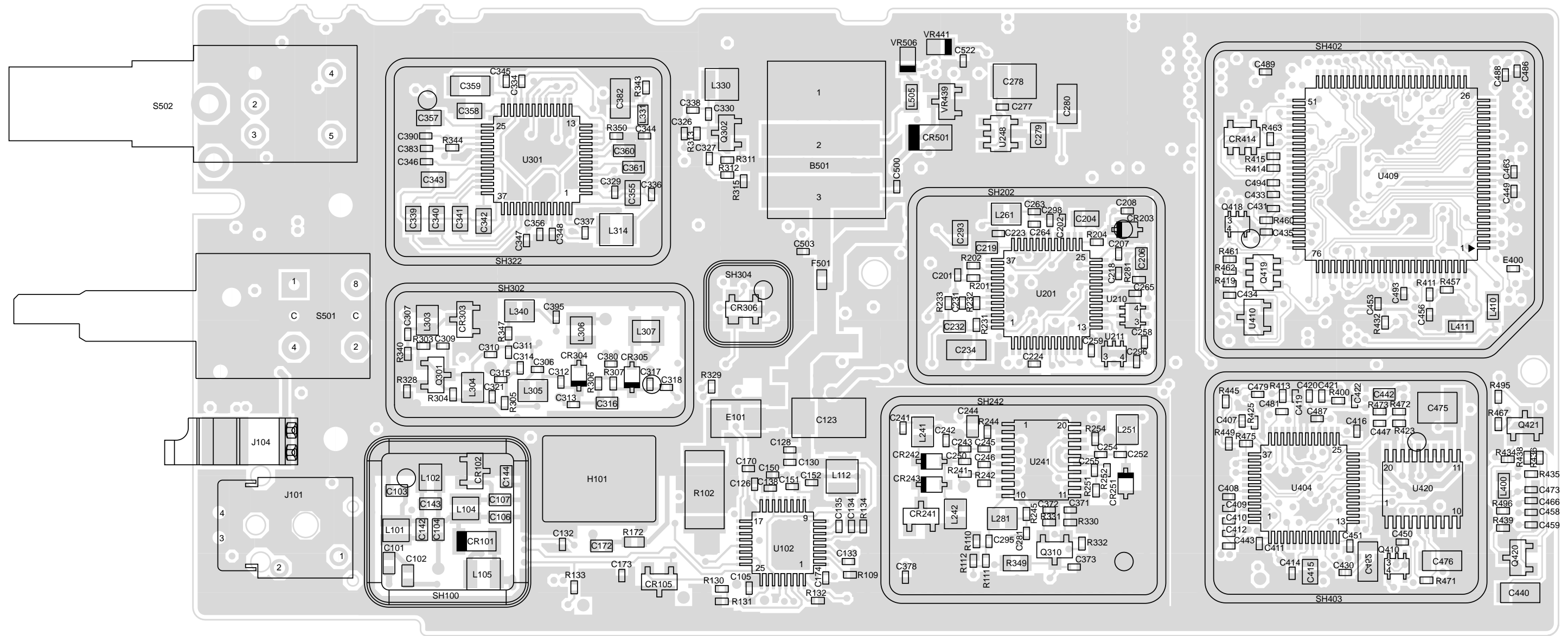


Figura 4-15. Circuito impreso de la tarjeta principal de UHF (403-470MHz)-Lado Inferior

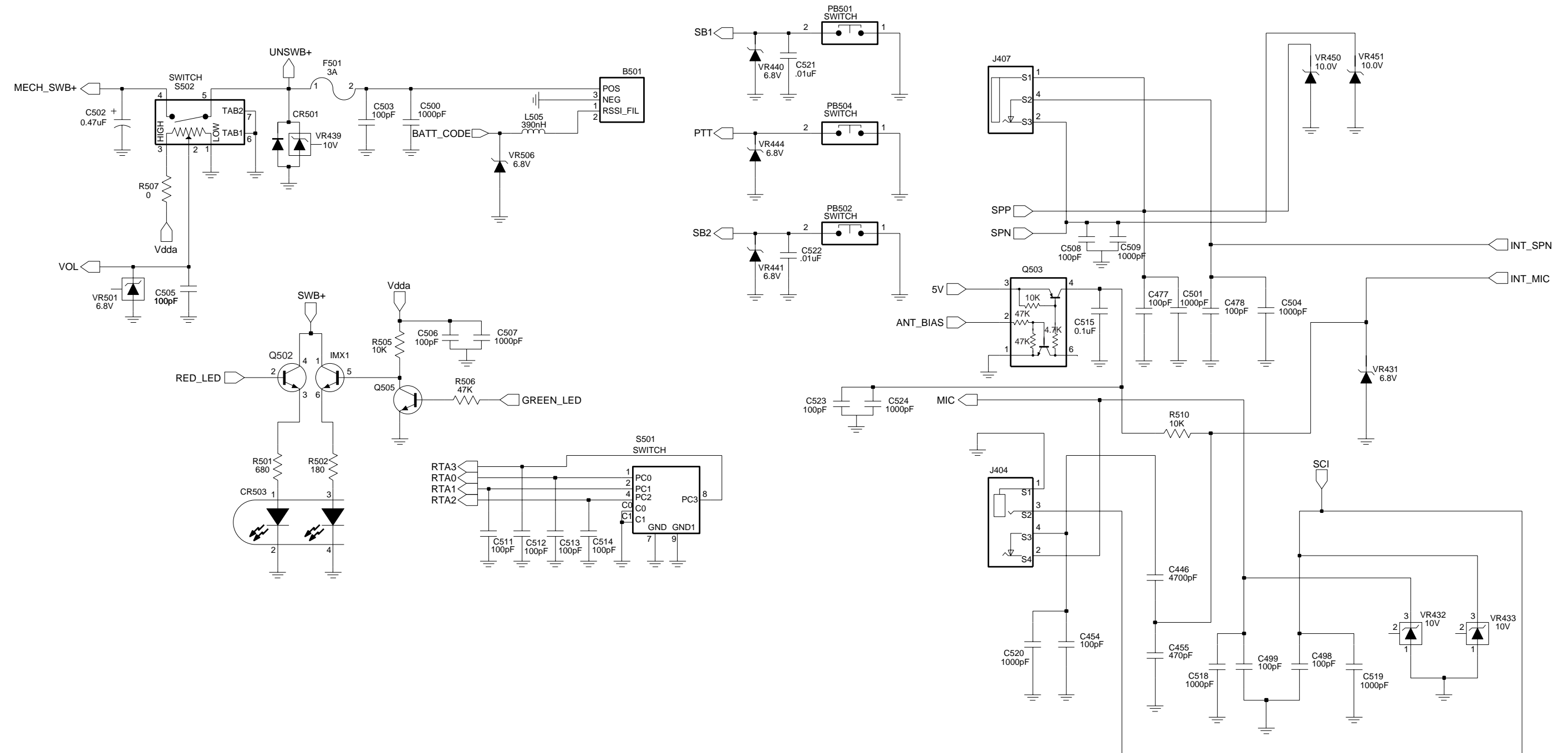


Figura 4-16. Diagrama esquemático de los conmutadores y controles UHF (403-470MHz)

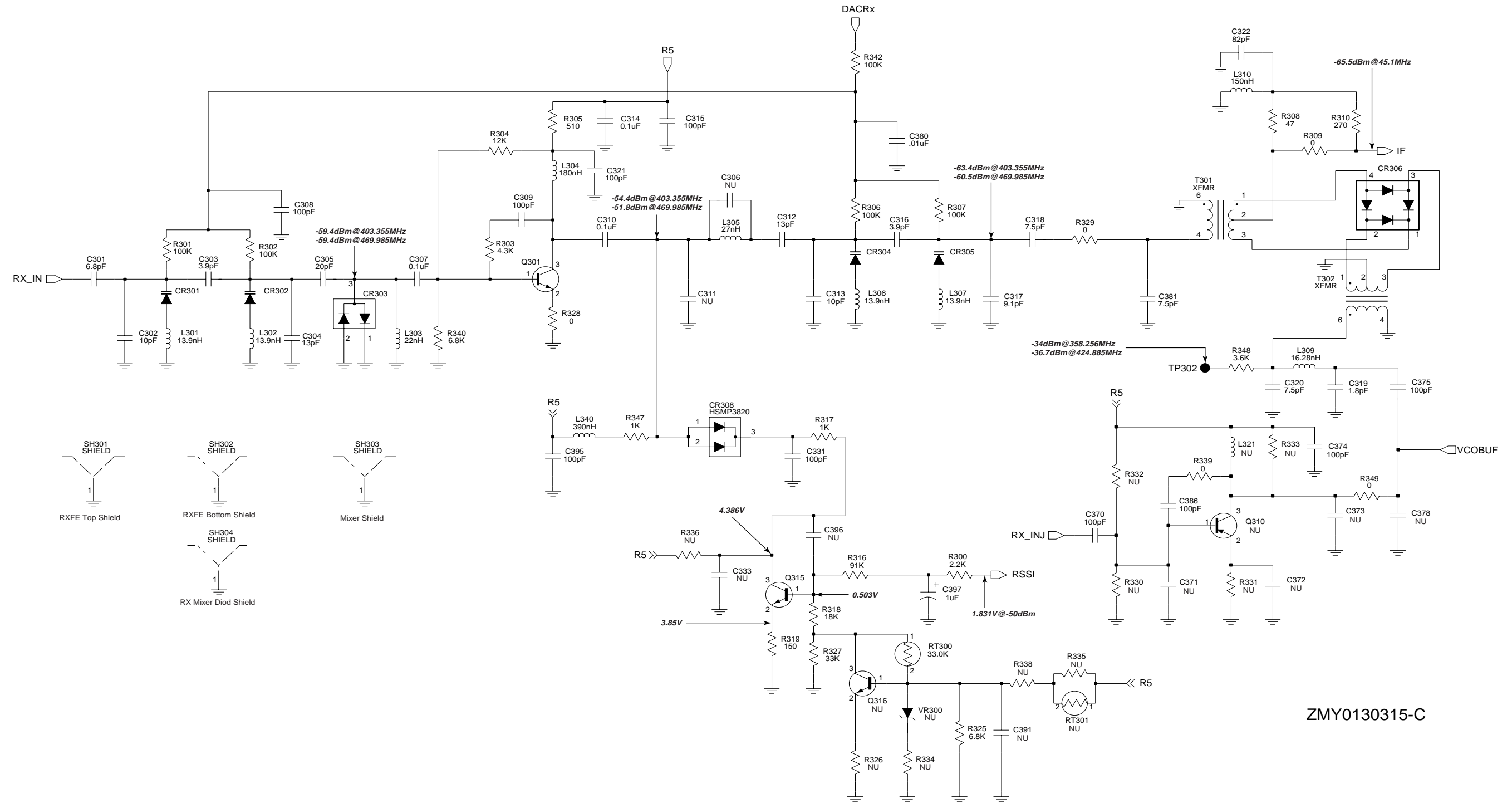


Figura 4-17. Diagrama esquemático de la etapa de entrada del receptor UHF (403-470MHz)

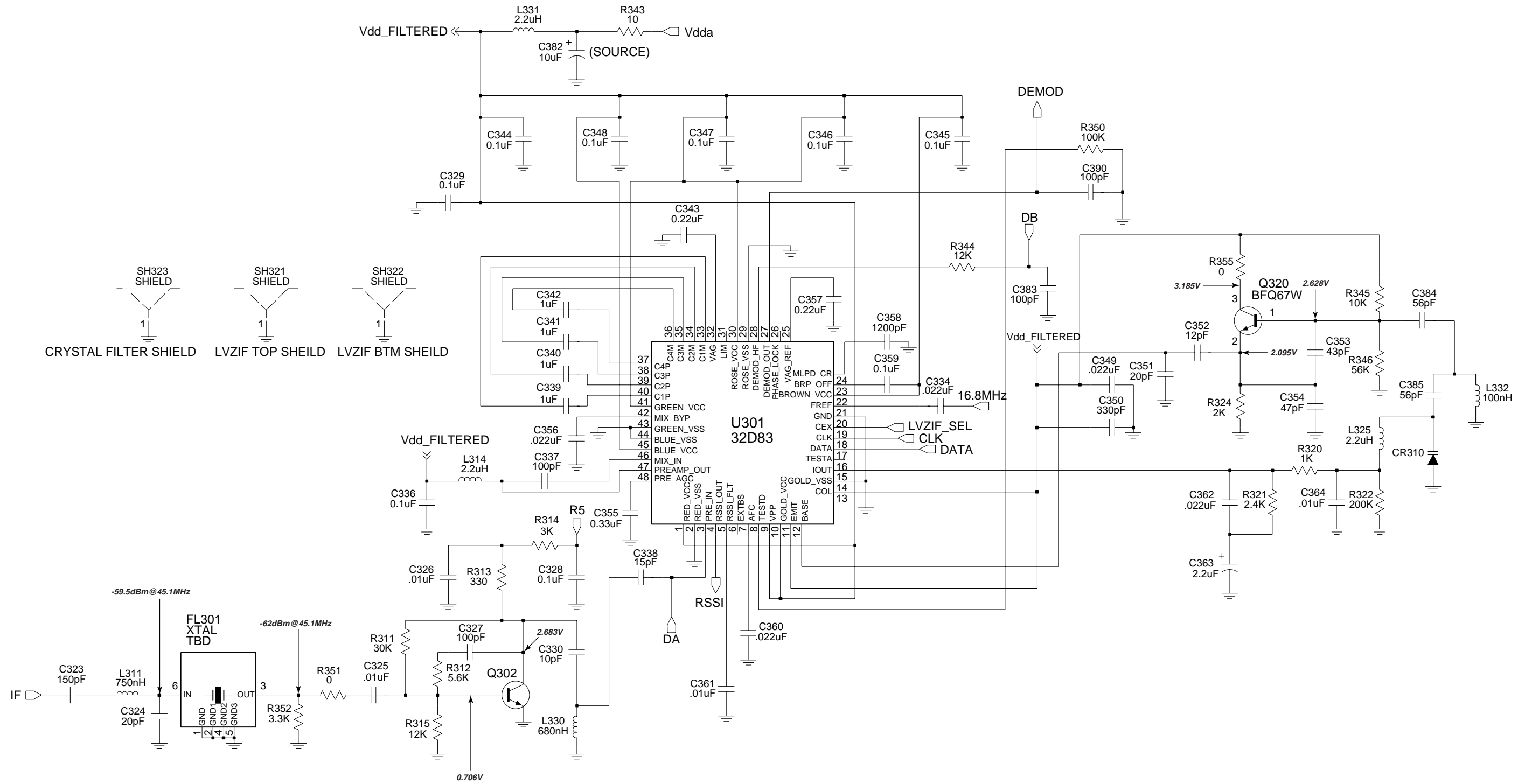


Figura 4-18. Diagrama esquemático de la etapa de salida del receptor UHF (403-470MHz)

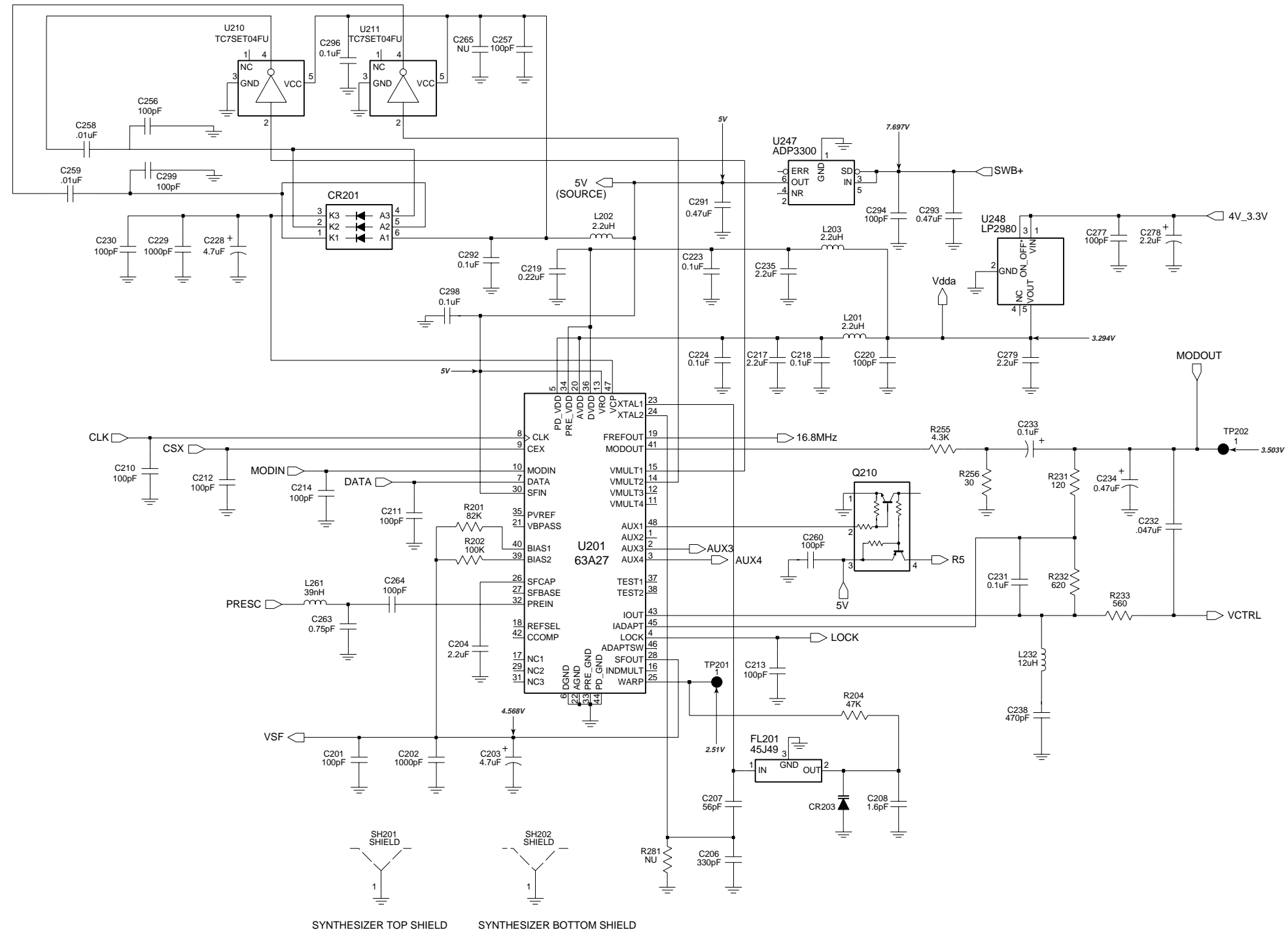


Figura 4-19. Diagrama esquemático del sintetizador UHF (403-470MHz)

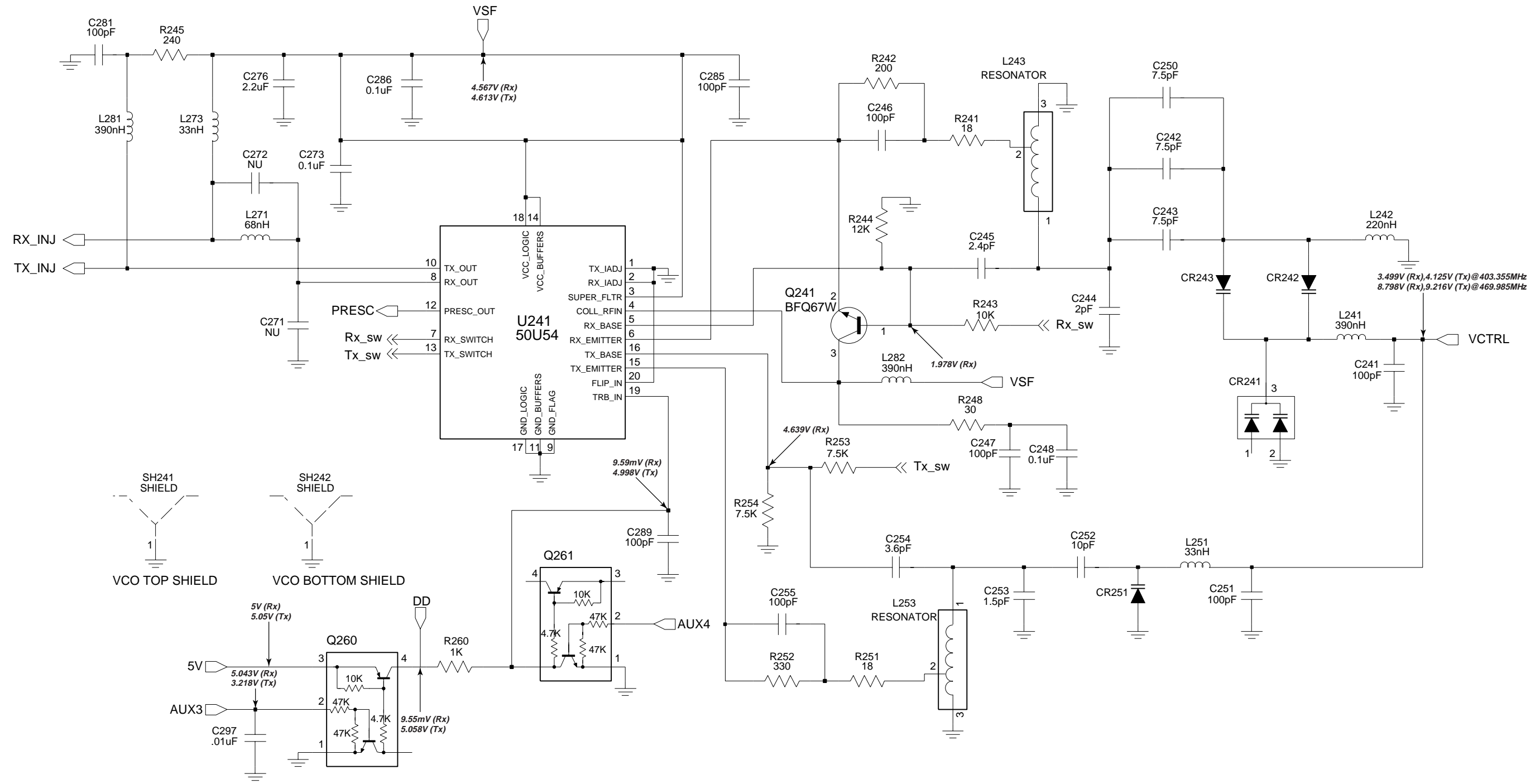
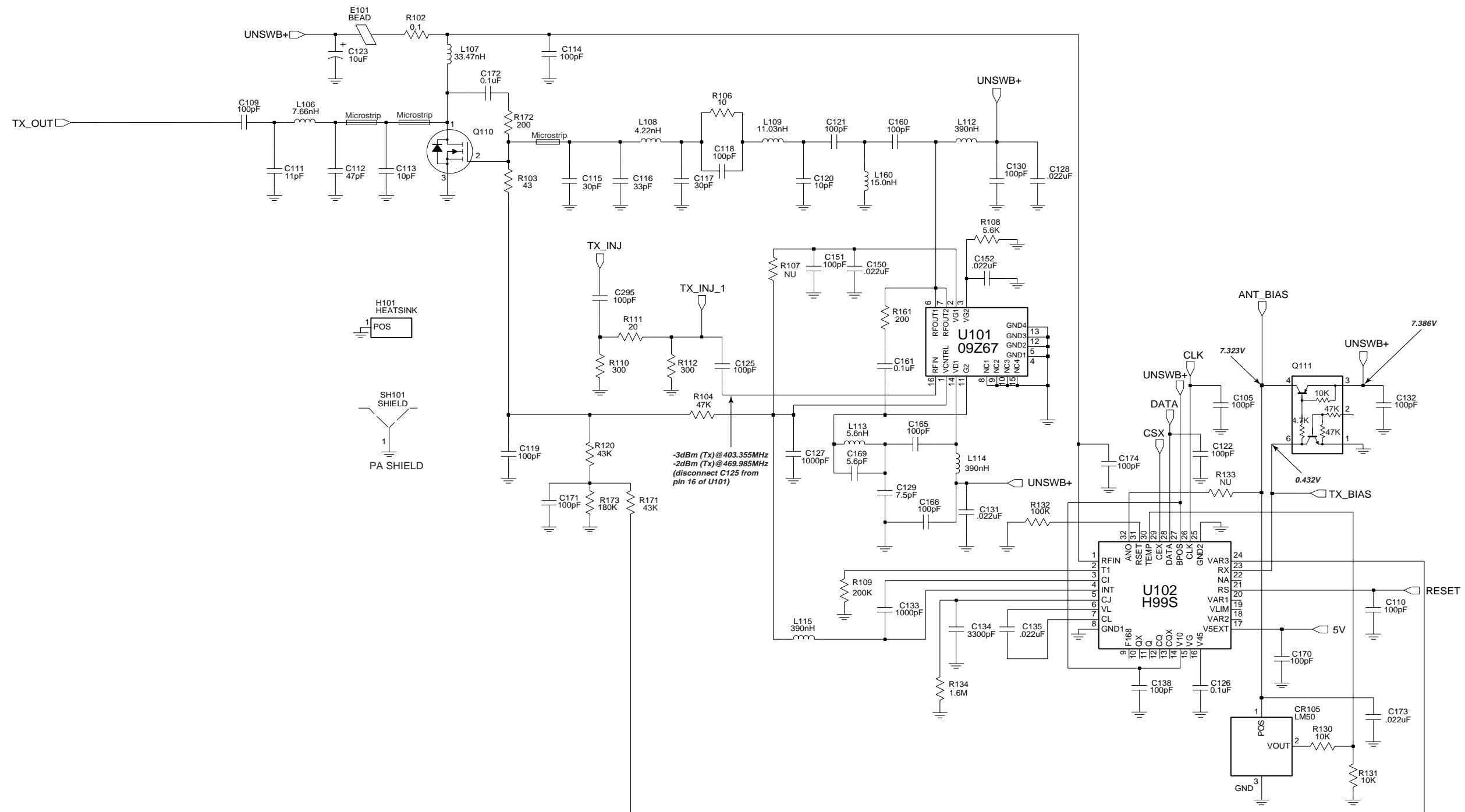
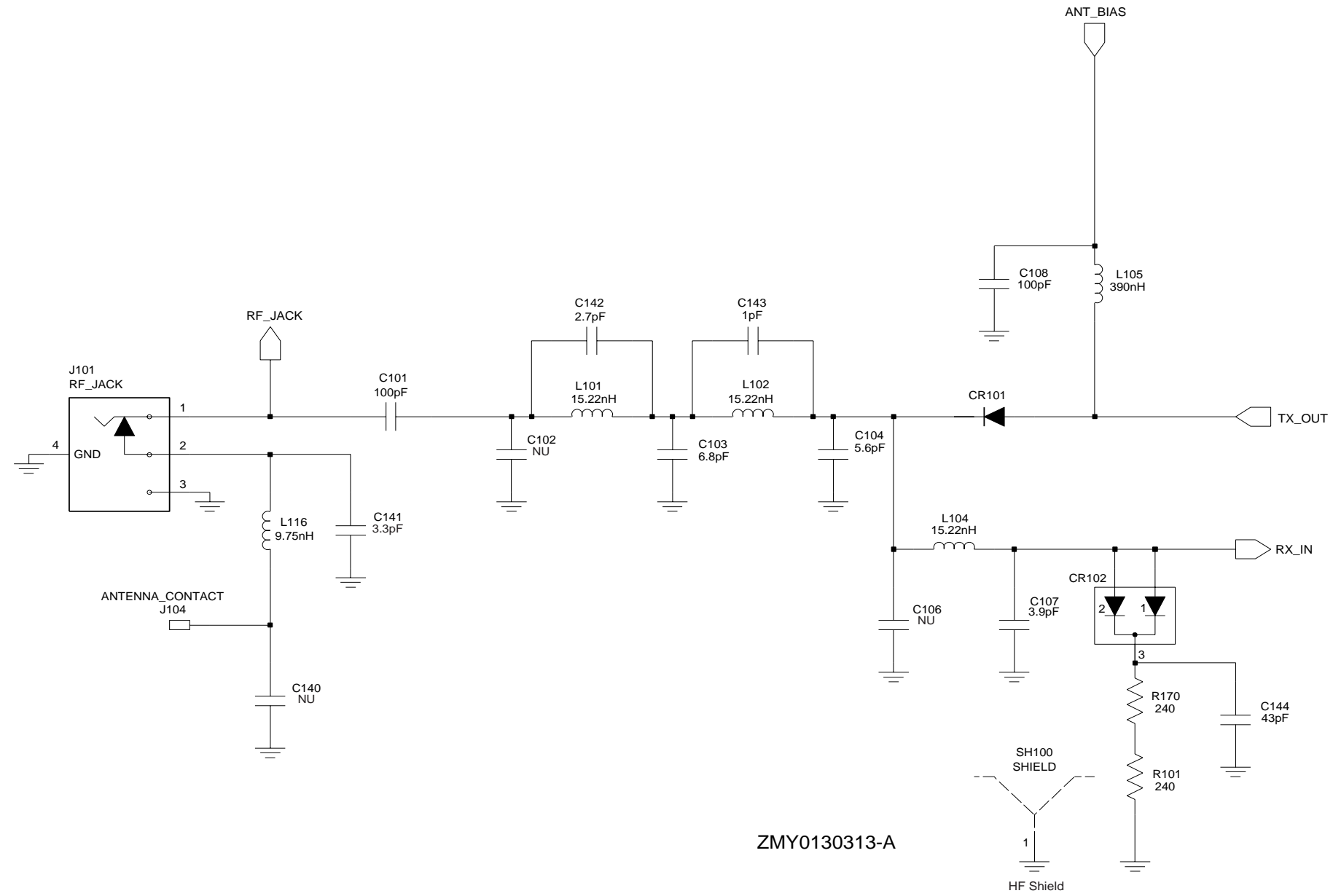


Figura 4-20. Diagrama esquemático del oscilador controlado por voltaje UHF (403-470MHz)



ZMY0130317-B

Figura 4-21. Diagrama esquemático del transmisor UHF (403-470MHz)



ZMY0130313-A

Figura 4-22. Diagrama esquemático del filtro de armónicas UHF

Tabla 4-3 Lista de piezas del radio UHF

Ref. de circuito	No. de pieza Motorola	Descripción
B501	0986237A01	CONECTOR, CONTACTO DE LA BATERIA
C101	2113740F51	100pF
C102	No Instalado	
C103	2113740F23	6.8pF
C104	2113740F21	5.6pF
C105	2113743N50	100pF
C106	No Instalado	
C107	2113740F17	3.9pF
C108	2113743N50	100pF
C109	2113740F51	100pF
C110	2113743N50	100pF
C111	2113740F30	13pF
C112	2180605Z32	47pF
C113	2180605Z16	10pF
C114	2113743N50	100pF
C115	2113743N26	10pF
C116	2113743N38	33.0pF
C117	No Instalado	
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
C142	2113740F13	2.7pF
C143	2113740F03	1pF
C144	2113740F42	43pF
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

Ref. de circuito	No. de pieza Motorola	Descripción
C172	2113740F51	100pF
C173	2113743M08	0.022uF
C174	2113743N50	100pF
C201	2113743N50	100pF
C202	2113743L17	1000pF
C203	2311049A56	4.7uF
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

Ref. de circuito	No. de pieza Motorola	Descripción
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	2380737Z10	10.0uF
C292	2113743M24	0.1uF
C293	2113743A27	0.470uF
C294	2113743N50	100pF
C295	2113743N50	100pF
C296	2113743M24	0.1uF
C297	2113743L41	0.01uF
C298	2113743M24	0.1uF
C299	2113743N50	100pF
C301	2113743N22	6.8pF
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

Ref. de circuito	No. de pieza Motorola	Descripción
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
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	2113743N23	7.5pF
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
C412	2113928N01	0.1uF
C414	2113743M24	0.1uF
C415	2109720D01	0.01uF
C416	2113928N01	0.1uF

Ref. de circuito	No. de pieza Motorola	Descripción
C420	2113743L41	0.01uF
C421	2113928N01	0.1uF
C422	2113743M24	0.1uF
C423	2113743N50	100pF
C424	2311049A5	10uF
C425	2113743M24	0.1uF
C426	2113743N50	100pF
C427	2113743N50	100pF
C428	2113743M24	0.1uF
C429	2113743M24	0.1uF
C430	2113928N01	0.1uF
C431	2113743N50	100pF
C433	2113743L41	0.01uF
C434	2113743M24	0.1uF
C435	2113743M24	0.1uF
C436	No Instalado	
C437	No Instalado	
C440	2113743G26	4.7uF
C441	No Instalado	
C442	2113743E2	0.10uF
C443	2113928N01	0.1uF
C444	No Instalado	
C445	No Instalado	
C446	2113743R33	470pF, 5%
C447	2113743M08	0.022uF
C448	No Instalado	
C449	2113743N50	100pF
C450	No Instalado	
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	No Instalado	
C472	No Instalado	
C473	2113743L09	470pF
C475	2113743H14	10.0uF
C476	2113928D08	10.0uF
C477	2113743N50	100pF
C478	2113743N50	100pF
C479	2113928N01	0.1uF
C480	2113928D08	10.0uF
C481	2113928N01	0.1uF
C482	2113928N01	0.1uF
C483	2113743L17	1000pF
C484	2113743L17	1000pF
C485	2113743L17	1000pF

Ref. de circuito	No. de pieza Motorola	Descripción
C486	2113743L17	1000pF
C487	No instalado	
C488	2113743L17	1000pF
C489	2113743L17	1000pF
C493	No instalado	
C494	2113743N50	100pF
C498	2113743N50	100pF
C499	2113743N50	100pF
C500	2113743L17	1000pF
C501	2113743L17	1000pF
C502	2311049A05	0.47pF
C503	2113743N50	100pF
C504	2113743L17	1000pF
C505	2113743N50	100pF
C506	2113743N50	100pF
C507	2113743L17	1000pF
C508	2113743N50	100pF
C509	2113743L17	1000pF
C511	2113743N50	100pF
C512	2113743N50	100pF
C513	2113743N50	100pF
C514	2113743N50	100pF
C515	2113743M24	0.1uF
C518	2113743L17	1000pF
C519	2113743L17	1000pF
C520	2113743L17	1000pF
C521	2113743L41	0.01uF
C522	2113743L41	0.01uF
C523	2113743N50	100pF
C524	2113743L17	1000pF
CR101	4880973Z02	DIODO PIN
CR102	4802245J41	DIODOS PIN
CR105	5185963A15	DETECTOR DE TEMPERATURA
CR201	4802233J09	DIODO TRIPLE
CR203	4862824C03	VARACTOR
CR241	4805649Q13	VARACTOR DOBLE
CR242	4862824C01	VARACTOR
CR243	4862824C01	VARACTOR
CR251	4802245J22	VARACTOR
CR301	4862824C01	VARACTOR
CR302	4862824C01	VARACTOR
CR303	4880154K03	ANODO-CATODO COMUN DOBLE
CR304	4862824C01	VARACTOR
CR305	4862824C01	VARACTOR
CR306	4802245J42	CUATRO DIODOS EN ANILLO
CR308	4802245J41	DIODOS PIN
CR310	4862824C01	VARACTOR
CR411	4802245J47	DIODO SCHOTTKY

Ref. de circuito	No. de pieza Motorola	Descripción
CR412	4802245J47	DIODO SCHOTTKY
CR413	4802245J47	DIODO SCHOTTKY
CR440	4813833C02	CATODO COMUN DE DOBLE DIODO
CR501	4880107R01	RECTIFICADOR
CR503	4805729G49	LED ROJO/AMARILLO
E101	2484657R01	BOBINA DE FERRIT
E400	2480640Z01	BOBINA DE FERRIT
F501	6580542Z01	FUSIBLE 3A
FL201	4802245J49	CLIP PARA CRISTAL DE 16.8MHZ
FL301	4802245J43	FILTRO DE CRISTAL 45,1MHZ
H101	2680499Z01	DIFUSOR DE CALOR
J101	0180117S05	CONJUNTO DE CONECTORES DE RF
J104	3980686Z01	CONTACTO DE ANTENA
J400	0905505Y04	CONECTOR 40 PINES
J402	2809926G02	CONECTOR 4 PINES
J404	0980689Z01	Conector (estéreo de 2,5mm)
J407	0980688Z01	Conector (Mono de 3,5mm)
L101	2460591B48	15.22nH, 10%
L102	2460591B48	15.22nH, 10%
L104	2460591B48	15.22nH, 10%
L105	2462587N22	390nH
L106	2479990A02	7.66nH
L107	2479990G01	33.47nH
L108	2479990A01	4.22nH
L112	2462587N45	22nH
L113	2413926H09	5.6nH
L114	2462587N22	390nH
L115	2462587N22	390nH
L116	2479990A03	9.75nH
L160	No instalado	
L201	2462587Q20	2.2uH
L202	2462587Q20	2.2uH
L203	2462587Q20	2.2uH
L232	2462587P25	12uH
L241	2462587V41	390nH
L242	2462587V38	220nH
L243	2460593C01	RESONADOR DE TEFLON
L251	2462587V28	33nH
L253	2460593C02	RESONADOR DE TEFLON
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

Ref. de circuito	No. de pieza Motorola	Descripción
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
L410	2462587Q42	390nH
L411	2462587Q42	390nH
L505	2462587Q42	390nH
PB501	4080523Z01	BOTON TACTIL
PB502	4080523Z01	BOTON TACTIL
PB503	4080523Z01	BOTON TACTIL
Q110	4802245J55	FET DE POTENCIA RF
Q111	4802245J50	NPN/PNP DOBLE
Q210	4802245J50	NPN/PNP DOBLE
Q241	4805218N63	NPN
Q260	4802245J50	NPN/PNP DOBLE
Q261	4802245J50	NPN/PNP DOBLE
Q301	4802245J44	NPN
Q302	4802245J44	NPN
Q315	4880214G02	NPN
Q320	4805218N63	NPN
Q400	4809579E18	MOSFET CANAL P
Q403	4880214G02	NPN
Q405	4802245J54	NPN DOBLE
Q410	4802245J54	NPN DOBLE
Q417	4802245J50	NPN/PNP DOBLE
Q418	4802245J50	NPN/PNP DOBLE
Q419	5180159R01	NPN DOBLE
Q420	4805128M67	SOT STR MMBT
Q421	4880214G02	NPN
Q431	5180159R01	NPN DOBLE
Q502	5180159R01	NPN DOBLE
Q503	4802245J50	NPN/PNP DOBLE
Q505	4880214G02	NPN
R101	0662057A34	240
R102	0680735Z01	0.075
R103	0662057M41	43
R104	0662057N15	47K
R105	0662057M01	0
R106	0662057M26	10
R108	0662057M92	5.6K
R109	0662057N30	200K

Ref. de circuito	No. de pieza Motorola	Descripción
R110	0662057M61	300
R111	0662057M33	20
R112	0662057M61	300
R120	0662057N14	43K
R130	0662057M98	10K
R131	0662057N14	10K
R132	0662057N33	270K
R134	0662057N52	1.6M
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	7.5K
R255	0662057M89	4.3K
R256	0662057M37	30
R260	0662057M74	1K
R281	No instalado	
R300	0662057M82	2.2K
R301	0662057N23	100K
R302	0662057N23	100K
R303	0662057M89	4.3K
R304	0662057N01	12K
R305	0662057M67	510
R306	0662057N23	100K
R307	0662057N23	100K
R308	0662057M42	47
R309	0662057M01	0
R310	0662057M60	270
R311	0662057N10	30K
R312	0662057M92	5.6K
R313	0662057M62	330
R314	0662057M85	3K
R315	0662057N01	12K
R316	0662057A96	91K
R317	0662057M74	1K

Ref. de circuito	No. de pieza Motorola	Descripción
R318	0662057A79	18K
R319	0662057A29	150
R320	0662057M74	1K
R321	0662057M83	2.4K
R322	0662057N30	200K
R324	0662057M81	2K
R325	0662057M94	6.8K
R327	0662057N11	33K
R328	0662057M01	0
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
R410	0662057N23	100K
R411	0662057M98	10K
R413	0662057M01	0
R414	0662057V34	180K
R415	0662057V26	91K
R416	0662057N13	39K
R418	0662057M01	0
R419	0662057M67	0
R423	0662057N39	470K
R425	0662057N10	30K
R427	0662057M98	10K
R428	0662057M10	2.2
R429	0662057M98	10K
R432	0662057N16	51K
R434	No instalado	
R435	0662057M81	2K
R436	0662057N15	47K
R438	0662057M01	0
R445	0662057N08	24K
R446	0662057N31	220K
R447	0662057N51	1.5M
R448	0662057N33	270K
R449	0662057N08	24K

Ref. de circuito	No. de pieza Motorola	Descripción
R457	0662057M98	10K
R460	0662057M90	4.7K
R461	0662057N23	100K
R462	0662057N23	100K
R463	0662057M61	300
R471	0662057M92	5.6K
R472	0662057N12	36K
R473	0662057M26	10
R475	0662057M01	0
R476	0662057N08	24K
R478	0662057M98	10K
R481	0662057N08	24K
R492	0662057M01	0
R494	0662057M01	0
R495	0662057N23	100K
R496	0662057N23	100K
R498	0662057N23	100K
R499	0662057M98	10K
R501	0662057M70	680
R502	0662057M56	180
R505	0662057M98	10K
R506	0662057N15	47K
R507	0662057M01	0
RT300	0680590Z01	TERMISTOR_33K
RT400	0680590Z01	TERMISTOR_33K
S501	4080710Z01	CONMUTADOR DE CANALES
S502	1880619Z01	CONMUTADOR DE VOLUMEN
SH10	2680687Z01	BLINDAJE, FILTRO DE ARMONICAS
SH10	2680510Z01	BLINDAJE, P
SH20	2680511Z01	BLINDAJE SUPERIO SINTETIZADOR
SH20	2680512Z01	BLINDAJE INFERIOR, SINTETIZADOR
SH24	2680513Z01	BLINDAJE SUPERIOR, VCO
SH24	2680514Z01	BLINDAJE INFERIOR VCO/ LVZIF
SH30	2680554Z01	BLINDAJE PRE FILTRO DE RX
SH30	2680555Z01	AMPLIFICADOR POST FILTRO RX/RX
SH30	2680509Z01	BLINDAJE, MEZCLADO
SH30	2680624Z01	BLINDAJE, DIODO DEL MEZCLADOR
SH32	2680508Z01	BLINDAJE, LVZIF 2DO LO
SH32	2680517Z01	BLINDAJE DE ZIF
SH32	2680553Z01	BLINDAJE FILTR PIEZOELECTRICO

Ref. de circuito	No. de pieza Motorola	Descripción
SH400	2680505Z01	BLINDAJE MEMORIA DEL CONTROLADO
SH401	2680506Z01	BLINDAJE ENCENDIDO/APAGADO DEL CONTROLADO
SH402	2680515Z01	BLINDAJE DEL MICRO PROCESADOR DEL CONTROLADO
SH403	2680516Z01	BLINDAJE CONTROLADOR ASFIC CMP/PADE AUDIO
T301	2580541Z01	BOBINA DE TRANSFORMADOR
T302	2580541Z01	BOBINA DE TRANSFORMADOR
U101	5105109Z67	IC EXCITADOR LDMOS UHF
U102	5185765B01	IC DE CONTROL DE POTENCIA
U201	5185963A27	LVFRACN
U210	5102463J61	INVERSOR
U211	5102463J61	INVERSOR
U241	5105750U54	BUFER DEL VCO
U247	5105739X05	REGULADOR LINEAL
U248	5102463J58	REGULADOR DE 3,3V
U301	5109632D83	LVZIF 2.2
U400	5102463J40	REGULADOR DE 3,3V
U404	5185963A53	ASFIC CMP
U405	5102463J36	RAM ESTATICA 32KX8 I
U406	*5102463J59	ROM FLASH 128KX8
U407	*5102463J64	EEPROM 16K X 8
U409	5102226J56	UP HC11FLO
U410	5102463J57	REGULADOR DE 3,3V
U420	5102463J44	PA DE AUDIO
VR432	4805656W08	ZENER DE 5,6V
VR433	4805656W08	ZENER DE 5,6V
VR434	4802245J51	ZENER DE 6,8V
VR439	4880140L15	ZENER DE 10V
VR440	4802245J51	ZENER DE 6,8V
VR441	4802245J51	ZENER DE 6,8V
VR442	4802245J51	ZENER DE 6,8V
VR443	4802245J51	ZENER DE 6,8V
VR444	4802245J51	ZENER DE 6,8V
VR445	4802245J53	ZENER DE 10V
VR446	4802245J53	ZENER DE 10V
VR447	4802245J53	ZENER DE 10V
VR448	4802245J53	ZENER DE 10V
VR449	4802245J53	ZENER DE 10V
VR450	4802245J53	ZENER DE 10V
VR501	4813830A18	ZENER DE 6,8V
VR506	4802245J51	ZENER DE 6,8V
	7580671Z01	PAD (CIRCUITO FLEXIBLE)

* Sólo talleres de servicio Motorola

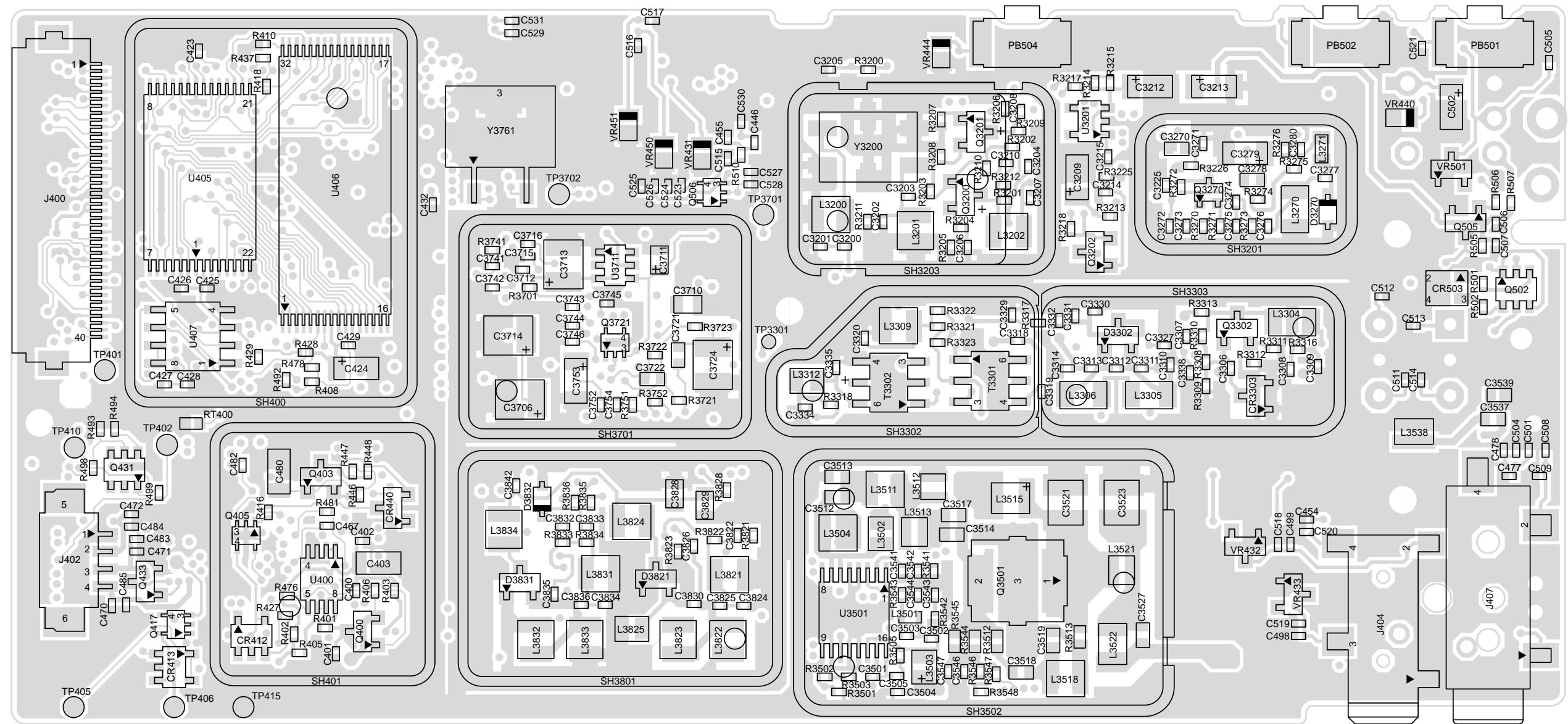


Figura 4-23. Circuito impreso de la tarjeta principal de VHF (136-174MHz)-Lado Superior

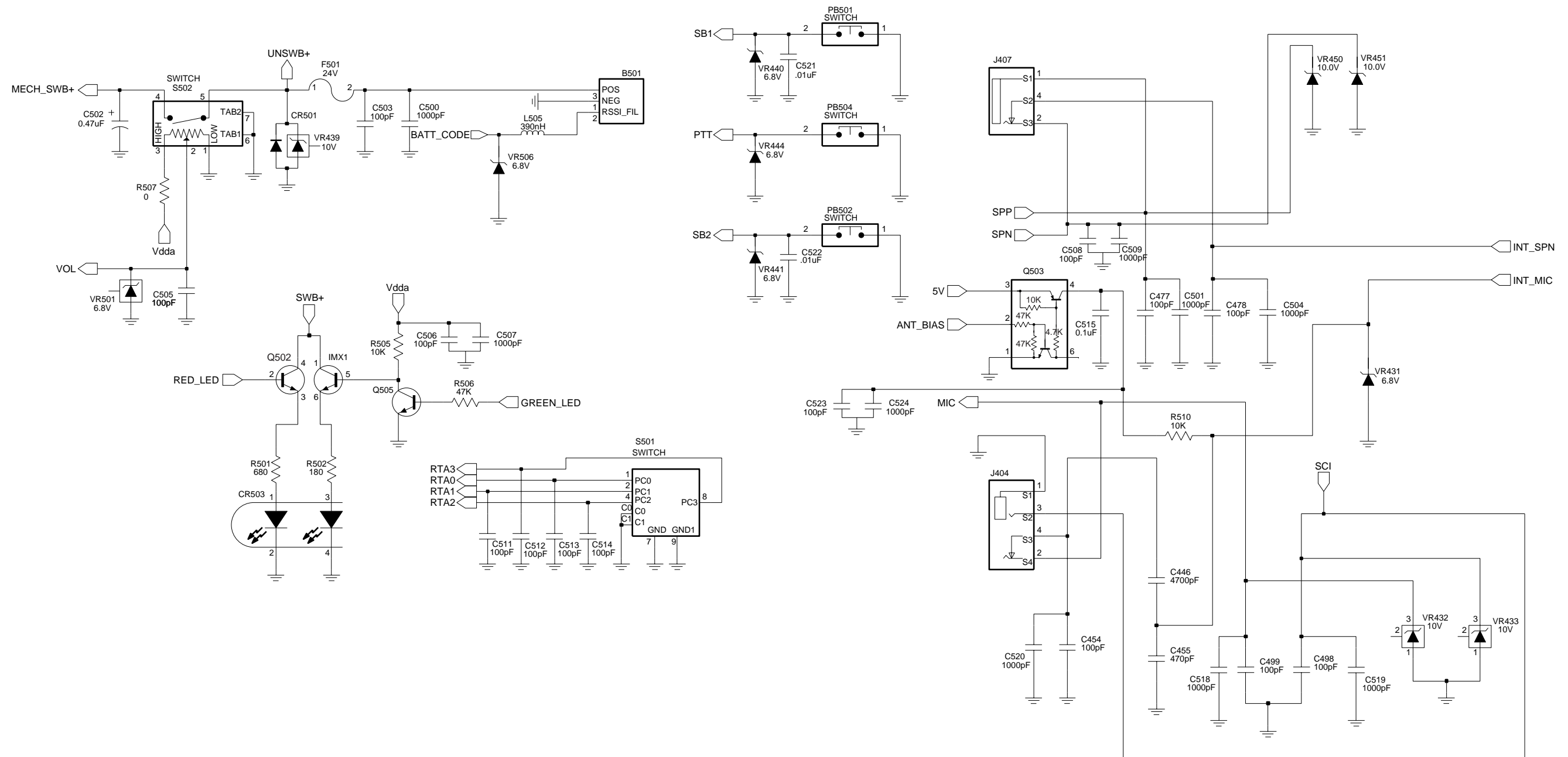


Figura 4-25. Diagrama esquemático de los conmutadores y controles VHF (136-174MHz)

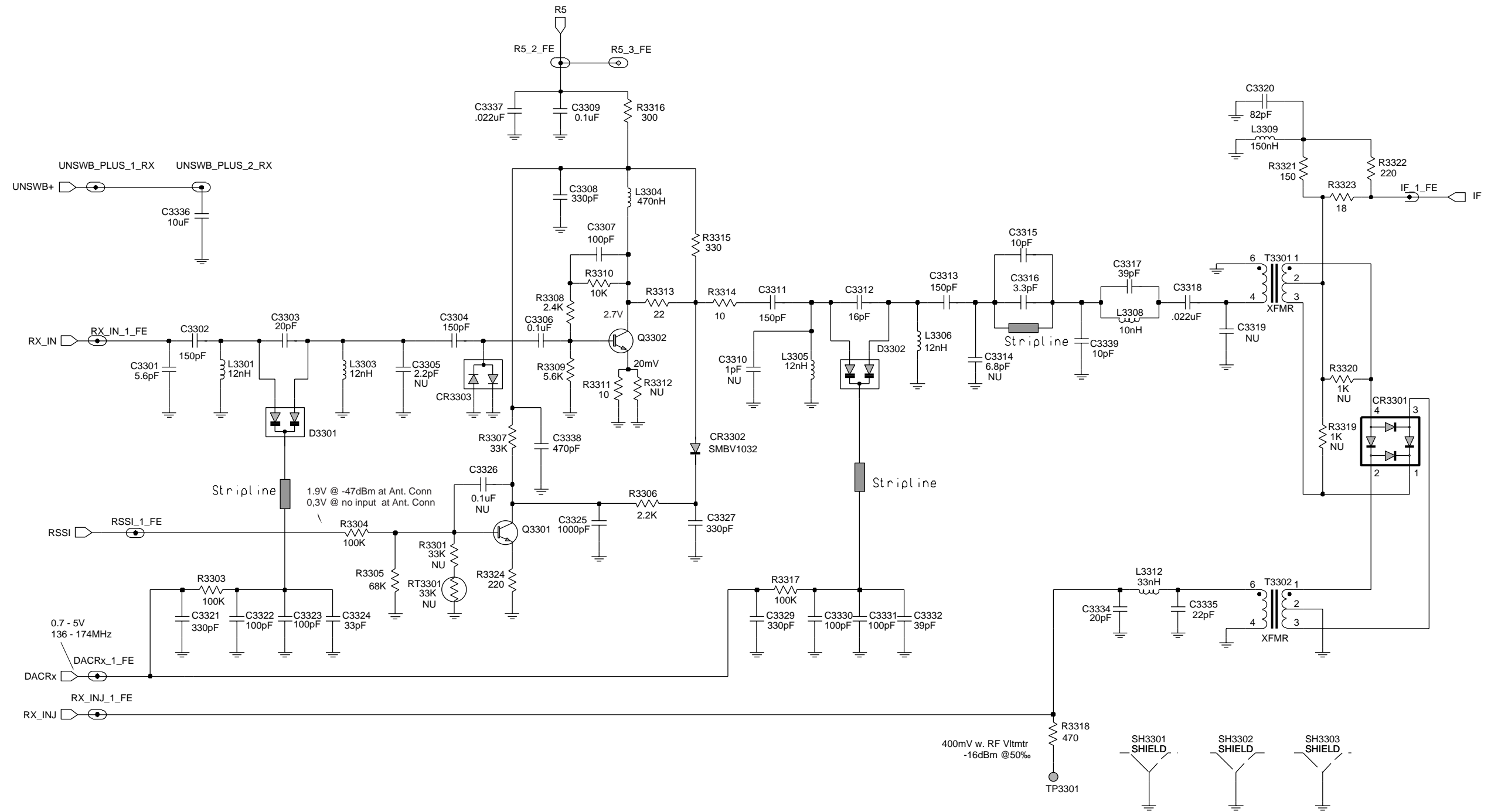


Figura 4-26. Diagrama esquemático de la etapa de entrada del receptor VHF (136-174MHz)

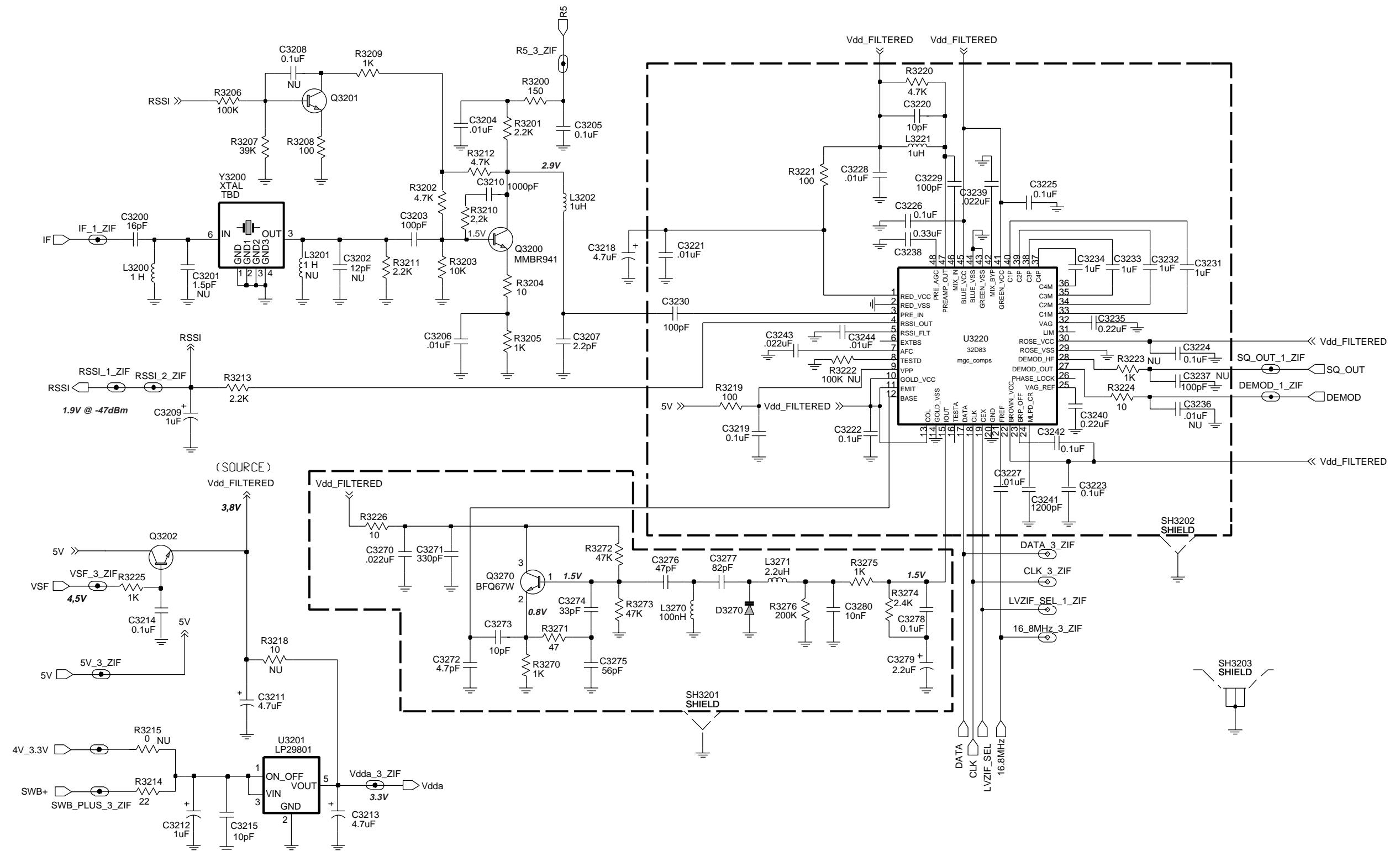


Figura 4-27. Diagrama esquemático de la etapa de salida del receptor VHF (136-174MHz)

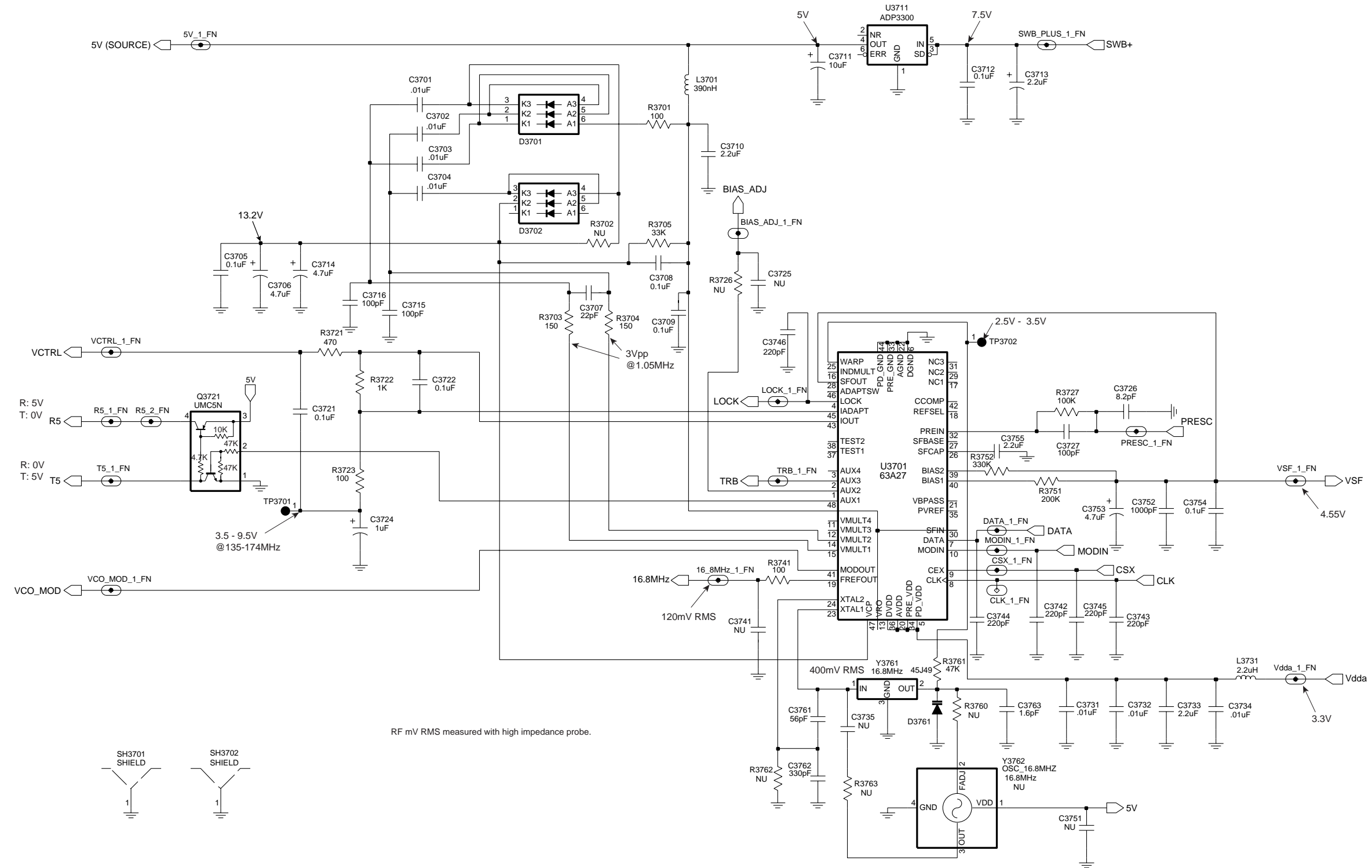


Figura 4-28. Diagrama esquemático del sintetizador VHF (136-174MHz)

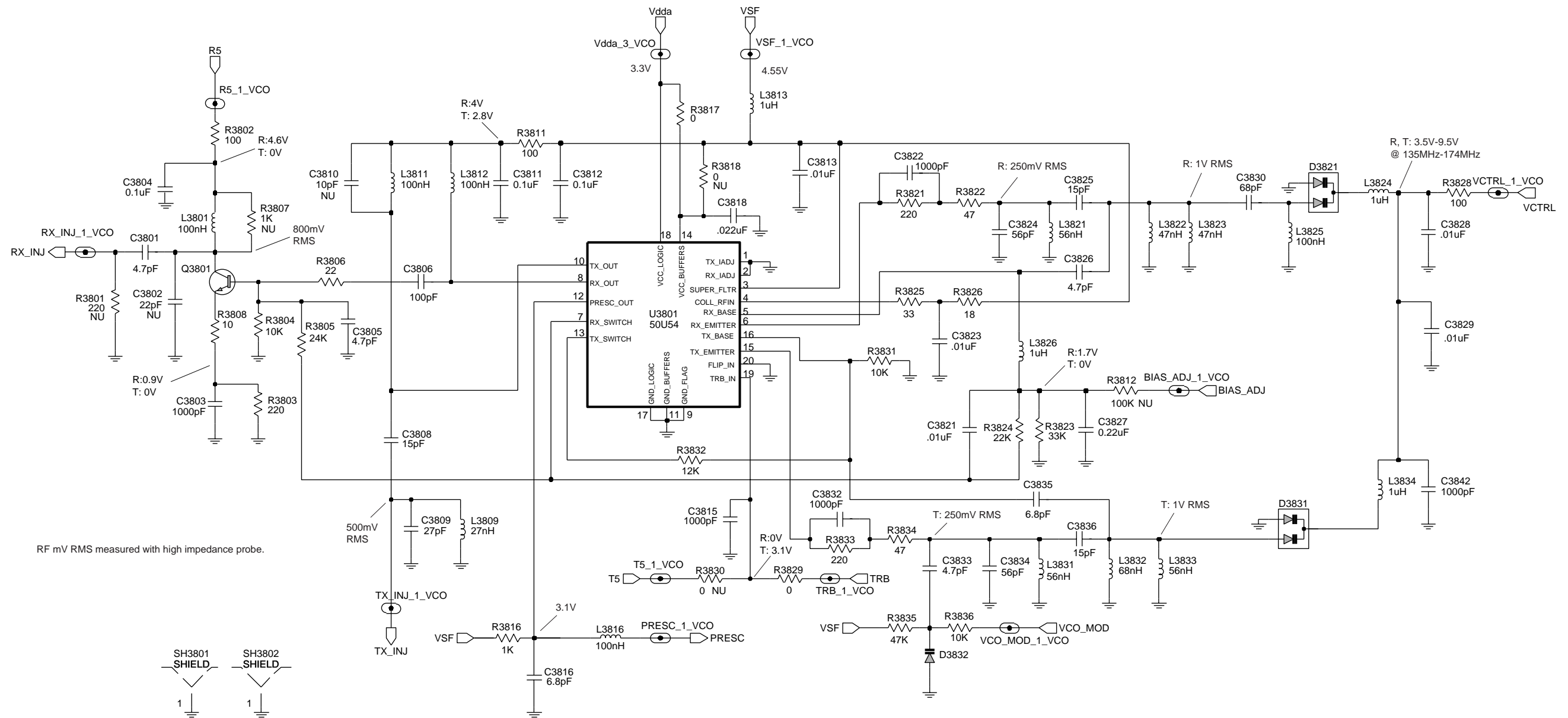


Figura 4-29. Diagrama esquemático del oscilador controlado por voltaje VHF (136-174MHz)

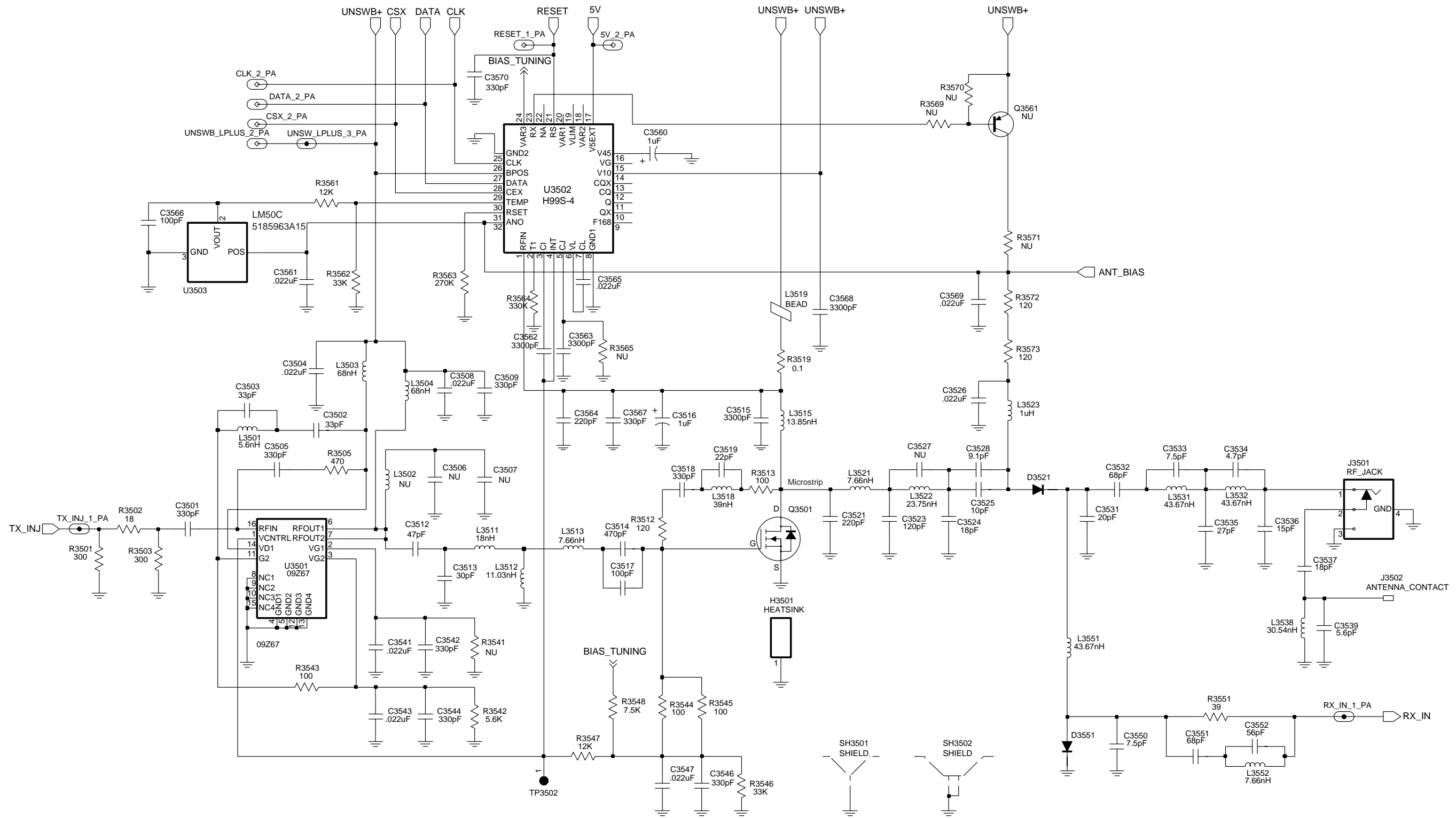


Figura 4-30. Diagrama esquemático del transmisor VHF (136-174MHz)

Tabla 4-3 Lista de piezas del radio VHF

Ref. de circuito	No. de pieza Motorola	Descripción
B01	0986237A0	Conector, Contacto de la batería
C3200	2113743N31	16pF
C3203	2113743N50	100pF
C3204	2113743L41	.01uF
C3205	2113928N01	0.1uF
C3206	2113743L41	.01uF
C3207	2113743N10	2.2pF
C3209	2311049A0	1uF
C3210	2113743L17	1000pF
C3211	2311049A5	4.7uF
C3212	2311049A0	1uF
C3213	2311049A5	4.7uF
C3214	2113928N01	0.1uF
C3215	2113743N26	10pF
C3218	2311049A5	4.7uF
C3219	2113928N01	0.1uF
C3220	2113743N26	10pF
C3221	2113743L41	.01uF
C3222	2113928N01	0.1uF
C3223	2113928N01	0.1uF
C3224	2113928N01	0.1uF
C3225	2113928N01	0.1uF
C3226	2113928N01	0.1uF
C3227	2113743L41	.01uF
C3228	2113743L41	.01uF
C3229	2113743N50	100pF
C3230	2113740F51	100pF
C3231	2180478Z20	1uF
C3232	2180478Z20	1uF
C3233	2180478Z20	1uF
C3234	2180478Z20	1uF
C3235	2113743A2	0.22uF
C3238	2113743A2	0.15uF
C3239	2113743E0	.022uF
C3240	2113743A2	0.22uF
C3241	2113743L19	1200pF
C3242	2109720D14	0.1uF
C3243	2113743E0	.022uF
C3244	2113743L41	.01uF
C3270	2113743E0	.022uF
C3271	2113743L05	330pF
C3272	2113743N18	4.7pF
C3273	2113743N26	10pF
C3274	2113743N38	33pF
C3275	2113743N44	56pF
C3276	2113743N42	47pF
C3277	2113743N48	82pF
C3278	2113743E2	0.1uF
C3279	2311049A0	1uF

Ref. de circuito	No. de pieza Motorola	Descripción
C3280	2113743L39	8200pF
C3301	2113743N29	13pF
C3302	2113743N54	150pF
C3303	2113743N33	20pF
C3304	2113743N54	150pF
C3306	2113928N01	0.1uF
C3307	2113743N50	100pF
C3308	2113743L05	330pF
C3309	2113928N01	0.1uF
C3311	2113743N54	150pF
C3312	2113743N31	16pF
C3313	2113743N54	150pF
C3315	2113743N26	10pF
C3316	2113743N33	20pF
C3317	2113743N40	39pF
C3318	2113743M08	.022uF
C3320	2113743N49	91pF
C3321	2113743L05	330pF
C3322	2113743N50	100pF
C3323	2113743N50	100pF
C3324	2113743N38	33pF
C3325	2113743L17	1000pF
C3326	No instalado	
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	.022uF
C3338	2113743L09	470pF
C3339	2113743N26	10pF
C3501	2113743L05	330pF
C3502	2113743N38	33pF
C3503	2113743N38	33pF
C3504	2113743M08	.022uF
C3505	2113743L05	330pF
C3508	2113743M08	.022uF
C3509	2113743L05	330pF
C3512	2113740F43	47pF
C3513	2113740F38	30pF
C3514	2113740F67	470pF
C3515	2113743L29	3300pF
C3516	2311049A08	1uF
C3517	2113740F51	100pF
C3518	2113740F63	330pF
C3519	2113740F35	22pF
C3521	2111078B51	220pF
C3523	2111078B45	130pF

Ref. de circuito	No. de pieza Motorola	Descripción
C3524	2113740F34	22pF
C3525	2113740F35	10pF
C3526	2113743M08	.022uF
C3528	2113740F26	9.1pF
C3531	2113740F29	12pF
C3532	2113740F38	68pF
C3533	2113740F26	7.5pF
C3534	2113740F27	10pF
C3535	2113740F36	24pF
C3536	2113740F31	15pF
C3537	2113740F33	18pF
C3539	2113740F21	5.6pF
C3541	2113743M08	.022uF
C3542	2113743L05	330pF
C3543	2113743M08	.022uF
C3544	2113743L05	330pF
C3546	2113743L05	330pF
C3547	2113743M08	.022uF
C3550	2113743N33	7.5pF
C3551	2113743N49	68pF
C3552	2113743N44	56pF
C3560	2311049A07	1uF
C3561	2113743M08	.022uF
C3562	2113743L29	3300pF
C3563	2113743L29	3300pF
C3564	2113743L01	220pF
C3565	2113743M08	.022uF
C3566	2113743N50	100pF
C3568	2113743L29	3300pF
C3569	2113743M08	.022uF
C3570	2113743L05	330pF
C3701	2113743L41	.01uF
C3702	2113743L41	.01uF
C3703	2113743L41	.01uF
C3704	2113743L41	.01uF
C3705	2113743E20	0.1uF
C3706	2311049J11	4.7uF
C3707	2113743N34	22pF
C3708	2113743M24	0.1uF
C3709	2113743M24	0.1uF
C3710	2104993J02	2.2uF
C3711	2380737Z10	2.2uF
C3712	2113743M24	0.1uF
C3713	2311049A09	2.2uF
C3714	2311049J11	4.7uF
C3715	2113743N50	100pF
C3716	2113743N50	100pF
C3721	2113743E20	0.1uF
C3722	2113743E20	0.1uF
C3724	2311049A08	1uF
C3726	2113743N24	8.2pF

Ref. de circuito	No. de pieza Motorola	Descripción
C3727	2113743N50	100pF
C3731	2113743L41	.01uF
C3732	2113743L41	.01uF
C3733	2104993J02	2.2uF
C3734	2113743L41	.01uF
C3742	2113743L01	220pF
C3743	2113743L01	220pF
C3744	2113743L01	220pF
C3745	2113743L01	220pF
C3746	2113743L01	220pF
C3752	2113743L17	1000pF
C3753	2311049A56	4.7uF
C3754	2113743M24	0.1uF
C3755	2104993J02	2.2uF
C3761	2113743N44	56pF
C3762	2113740F63	330pF
C3763	2113743N08	1.6pF
C3801	2113743N18	4.7pF
C3803	2113743L17	1000pF
C3804	2113743E20	0.1uF
C3805	2113743N18	4.7pF
C3806	2113743N50	100pF
C3808	2113743N30	15pF
C3809	2113743N36	27pF
C3811	2113743M24	0.1uF
C3812	2113743M24	0.1uF
C3813	2113743L41	.01uF
C3815	2113743L17	1000pF
C3816	2113743N22	6.8pF
C3818	2113743E07	.022uF
C3821	2113743L41	.01uF
C3822	2113743L17	1000pF
C3823	2113743L41	.01uF
C3824	2113743N44	56pF
C3825	2113743N30	15pF
C3826	2113743N18	4.7pF
C3827	2113743E07	.022uF
C3828	2113741A45	.01uF
C3829	2113741A45	.01uF
C3830	2113743N46	68pF
C3832	2113743L17	1000pF
C3833	2113743N18	4.7pF
C3834	2113743N44	56pF
C3835	2113743N22	6.8pF
C3836	2113743N30	15pF
C3842	2113743L17	1000pF
C400	2113743L41	.01uF, 10%
C401	2113743M24	0.1uF, +80%/-20%
C402	2113743M24	0.1uF, +80%/-20%
C403	2113928D08	10uF, +80%/-20%
C407	2113928N01	0.1uF, 10%

Ref. de circuito	No. de pieza Motorola	Descripción
C408	2113743N50	100pF
C409	2113743M24	0.1uF, +80%/-20%
C410	2113928N01	0.1uF, 10%
C411	2113743M24	0.1uF, +80%/-20%
C412	2113928N01	0.1uF
C414	2113743M24	0.1uF, +80%/-20%
C415	2109720D01	.01uF, 10%
C416	2113928N01	0.1uF, 10%
C419	2113743L41	.01uF, 10%
C420	2113743L41	.01uF, 10%
C421	2113928N01	0.1uF, 10%
C422	2113743M24	0.1uF, +80%/-20%
C423	2113743N50	100pF
C424	2311049A59	10uF, 10%; 6V
C425	2113743M24	0.1uF, +80%/-20%
C426	2113743N50	100pF
C427	2113743N50	100pF
C428	2113743M24	0.1uF, +80%/-20%
C429	2113743M24	0.1uF, +80%/-20%
C430	2113928N01	0.1uF, 10%
C431	2113743N50	100pF
C432	No instalado	
C433	2113743L41	.01uF, 10%
C434	2113743M24	0.1uF, +80%/-20%
C435	2113743M24	0.1uF, +80%/-20%
C440	2113743G26	4.7uF, +80%/-20%
C442	2113743E20	0.1uF, 10%
C443	2113928N01	0.1uF, 10%
C446	2113743R33	4700pF
C447	2113928N01	0.1uF, 10%
C448	2113928N01	0.1uF, 10%
C449	2113743N50	100pF
C451	2113743M08	.022uF, +80%/-20%
C452	2113743G26	4.7uF, +80%/-20%
C453	2113743N50	100pF
C456	2113743N50	100pF
C458	2113743N50	100pF
C459	2113743N50	100pF
C463	2113743N50	100pF
C466	2113743N50	100pF
C467	2113928N01	0.1uF, 10%
C473	2113743L09	100pF
C475	2113743H14	10uF, +80%/-20%
C476	2113928D08	10uF, +80%/-20%
C477	2113743N50	100pF
C478	2113743N50	100pF
C479	2113928N01	0.1uF, 10%
C480	2113743G24	2.2uF
C481	2113928N01	0.1uF, 10%
C482	2113928N01	0.1uF, 10%
C483	2113743L17	1000pF

Ref. de circuito	No. de pieza Motorola	Descripción
C484	2113743L17	1000pF
C485	2113743L17	1000pF
C486	2113743L17	1000pF
C487	No instalado	
C488	2113743L17	1000pF
C489	2113743L17	1000pF
C493	No instalado	
C494	2113743N50	100pF
C498	2113743N50	100pF
C499	2113743N50	100pF
C500	2113743L17	1000pF
C501	2113743L17	1000pF
C502	2311049A05	0.47uF, 10%; 25V
C503	2113743N50	100pF
C504	2113743L17	1000pF
C505	2113743N50	100pF
C506	2113743N50	100pF
C507	2113743L17	1000pF
C508	2113743N50	100pF
C509	2113743L17	1000pF
C511	2113743N50	100pF
C512	2113743N50	100pF
C513	2113743N50	100pF
C514	2113743N50	100pF
C518	2113743L17	1000pF
C519	2113743L17	1000pF
C520	2113743L17	1000pF
C521	2113743L41	.01uF, 10%
C522	2113743L41	.01uF, 10%
C523	2113743N50	100pF
C524	2113743L17	1000pF
CR3301	4802245J42	Anillo de cuatro diodos
CR3302	4805129M96	SMBV1032
CR3303	4880154K03	Anodo-Cátodo común doble
CR414	4802245J47	Diodo Schottky
CR412	4802245J47	Diodo Schottky
CR413	4802245J47	Diodo Schottky
CR440	4813833C02	Dual Diode Common Cathode
CR501	4880107R01	Rectificador
CR503	4805729G49	LED Rojo/Amarillo
D3270	4862824C01	Varactor
D3301	4802081B58	Diodo doble
D3302	4802081B58	Diodo doble
D3521	4880973Z02	Diodo Pin
D3551	4880973Z02	Diodo Pin
D3701	4802233J09	Diodo Triple
D3702	4802233J09	Diodo Triple
D3761	4862824C03	Varactor
D3821	4805649Q13	Varactor doble
D3831	4805649Q13	Varactor doble
D3832	4862824C01	Varactor

Ref. de circuito	No. de pieza Motorola	Descripción
E400	2480640Z01	Bobina de ferrita
F501	6580542Z01	Fusible 3A
H3501	2680499Z01	Disipador de calor
J104	3980686Z01	Contacto (Antena)
J3501	0180117S05	CONECTOR DE RF
J3502	3980686Z01	Contacto de antena
J400	0905505Y04	Conector de 4 pines
J402	2809926G02	Conector de 4 pines
J404	0980689Z01	Conector estéreo (2.5mm)
J407	0980688Z01	Conector estéreo (3.5mm)
L3200	2462587N68	1uH
L3202	2462587N68	1uH
L3221	2462587N68	1uH
L3270	2462587T15	100nH
L3271	2462587Q20	2.2uH
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	2460591B04	11.03nH
L3513	2460591A11	7.66nH
L3515	2460591C23	13.85nH
L3518	2462587N48	39nH
L3519	2484657R01	Bobina
L3521	2460591A11	7.66nH
L3522	2460591E24	23.75nH
L3523	2462587N68	1uH
L3531	2460591N28	34.14nH
L3532	2460591N28	34.14nH
L3538	2460591M36	30.54nH
L3551	2460591N36	43.67nH
L3552	2460591A11	7.66nH
L3701	2462587Q42	390nH
L3731	2462587Q20	2.2uH
L3801	2462587V34	100nH
L3809	2462587V27	27nH
L3811	2462587V34	100nH
L3812	2462587V34	100nH
L3813	2462587Q47	1uH
L3816	2462587V34	100nH
L3821	2462587N50	56nH
L3822	2462587N49	47nH
L3823	2462587N49	47nH

Ref. de circuito	No. de pieza Motorola	Descripción
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	Botón táctil
PB502	4080523Z01	Botón táctil
PB504	4080523Z01	Botón táctil
Q3200	4813827A07	MMBR941
Q3201	4880214G02	NPN
Q3202	4880214G02	NPN
Q3270	4805218N63	BFQ67W
Q3301	4880214G02	NPN
Q3302	4813827A07	NPN
Q3501	4802245J55	FET de potencia RF
Q3721	4802245J50	UMC5N
Q3801	4813827A07	NPN
Q400	4809579E18	MOSFET canal P
Q403	4880214G02	NPN
Q405	4802245J54	NPN doble
Q410	4802245J54	NPN doble
Q417	4802245J50	NPN/PNP doble
Q418	4802245J50	NPN/PNP doble
Q419	5180159R01	NPN5 doble
Q420	4805128M67	MMBT3906
Q421	4880214G02	NPN
Q502	5180159R01	NPN doble
Q505	4880214G02	NPN
R3200	0662057M54	150
R3201	0662057M82	2.2K
R3202	0662057M90	4.7K
R3203	0662057M98	10K
R3204	0662057M34	22
R3205	0662057M74	1K
R3206	0662057N23	100K
R3207	0662057N13	39K
R3208	0662057M50	100
R3209	0662057M74	1K
R3210	0662057M82	2.2K
R3211	0662057M82	2.2K
R3212	0662057M90	4.7K
R3213	0662057M82	2.2K
R3214	0662057M50	100
R3215	0662057M50	100

Ref. de circuito	No. de pieza Motorola	Descripción
R3219	0662057M50	100
R3220	0662057M90	4.7K
R3221	0662057M50	100
R3224	0662057M26	10
R3225	0662057M74	1K
R3226	0662057M26	10
R3270	0662057M74	1K
R3271	0662057M42	47
R3272	0662057N15	47K
R3273	0662057N15	47K
R3274	0662057M74	1K
R3275	0662057M88	3.9K
R3276	0662057N30	200K
R3303	0662057N23	100K
R3304	0662057N23	100K
R3305	0662057N19	33K
R3306	0662057M82	2.2K
R3307	0662057N11	33K
R3308	0662057M86	2.4K
R3309	0662057M92	5.6K
R3310	0662057M98	10K
R3311	0662057M26	10
R3312	No instalado	
R3313	0662057M34	22
R3314	0662057M26	10
R3315	0662057M62	330
R3316	0662057M61	300
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
R3505	0662057M66	470
R3512	0662057A2	120
R3513	0662057A2	100
R3519	0680539Z01	0.1
R3542	0662057M92	5.6K
R3543	0662057M50	100
R3544	0662057A2	100
R3545	0662057A2	100
R3546	0662057N11	33K
R3547	0662057N01	12K
R3548	0662057M95	7.5K
R3551	0662057M40	39
R3561	0662057N01	12K
R3562	0662057N11	33K
R3563	0662057N33	270K

Ref. de circuito	No. de pieza Motorola	Descripción
R3564	0662057N35	330K
R3572	0662057A27	120
R3573	0662057A27	120
R3701	0662057M50	100
R3702	No instalado	
R3703	0662057M54	150
R3704	0662057M54	150
R3705	0662057N11	33K
R3721	0662057M66	470
R3722	0662057M74	1K
R3723	0662057M50	100
R3727	0662057N23	100K
R3741	0662057M50	100
R3751	0662057N30	200K
R3752	0662057N35	330K
R3760	No instalado	
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	1K
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
R3831	0662057M98	10K
R3832	0662057N01	12K
R3833	0662057M58	220
R3834	0662057M42	47
R3835	0662057N15	47K
R3836	0662057M98	10K
R400	0662057N15	47K
R401	0662057M01	0
R402	No instalado	
R403	No instalado	
R405	0662057M01	0
R406	0662057N20	75K
R410	0662057N23	100K
R411	0662057M98	10K
R413	0662057M01	0
R414	0662057V34	180K, 1%
R415	0662057V26	91K, 1%

Ref. de circuito	No. de pieza Motorola	Descripción
R416	0662057N13	39K
R418	0662057M01	0
R419	0662057M90	4700
R423	0662057N15	47K
R425	0662057N10	30K
R427	0662057M98	10K
R428	0662057M10	2.2K
R429	0662057M98	10K
R432	0662057N16	51K
R434	No instalado	
R435	0662057M81	2K
R436	0662057N16	0
R437	No instalado	
R438	0662057M01	0
R439	0662057N23	100K
R445	0662057N08	24K
R446	0662057N30	200K
R447	0662057N52	1.6M
R448	0662057N33	270K
R449	0662057N08	24K
R457	0662057M98	10K
R460	0662057M90	4.7K
R461	0662057N23	100K
R462	0662057N23	100K
R463	0662057M61	300
R471	0662057M92	5.6K
R472	0662057N12	3.6K
R473	0662057M26	10
R475	0662057M01	0
R476	0662057N08	24K
R478	0662057M98	10K
R481	0662057N08	24K
R492	0662057M01	0
R494	0662057M01	0
R495	0662057N23	100K
R496	0662057N23	100K
R498	0662057N23	100K
R499	0662057M98	10K
R501	0662057M70	680
R502	0662057M56	180
R505	0662057M98	10K
R506	0662057N15	47K
R507	0662057M01	0
RT40	0680590Z01	Termistor 33K
S501	4080502B03	Conmutador de canales
S502	1880619Z01	Conmutador de volumen
SH3201	2602023X08	Blindaje
SH3202	2686081B02	Blindaje
SH3203	No instalado	
SH3301	2686081B01	Blindaje
SH3302	2686081B05	Blindaje

Ref. de circuito	No. de pieza Motorola	Descripción
SH3303	2686081B06	Blindaje
SH3501	2686081B03	Blindaje
SH3502	2686081B04	Blindaje
SH3702	2680511Z01	Blindaje
SH3801	2680513Z01	Blindaje
SH3802	2680514Z01	Blindaje
SH400	2680505Z01	Blindaje de la memoria del controlador
SH401	2680506Z01	Blindaje de encendido/apagado del controlador
SH402	2680515Z01	Blindaje del microprocesador del controlador
SH403	2680516Z01	Blindaje del AsficCmp del controlador/PA de audio
T3301	2580541Z01	Bobina de transformador
T3302	2580541Z01	Bobina de transformador
U3201	5102463J58	LP2980
U3220	5109632D83	IC LVZIF
U3501	5105109Z67	Pre-excitador LDMOS
U3502	5185765B01	IC de control de potencia
U3503	5185963A15	Detector de temperatura
U3701	5185963A27	IC LVFRACNTN
U3711	5105739X05	Regulador lineal
U3801	5105750U54	Búfer del VCO
U400	5102463J40	Regulador de 3,3V
U404	5185963A53	AsficCmp
U405	No instalado	
U406	*5102463J59	ROM Flash 256K
U407	*5102463J64	EEPROM 16Kx8
U409	5102226J55	up HC11FLO
U410	5102463J57	Regulador de 3,3V
U420	5102463J44	PA de Audio
VR431	4802245J51	Zener de 6,8V
VR432	4880140L15	Zener de 10V
VR433	4880140L15	Zener de 10V
VR439	4880140L15	Zener de 10V
VR440	4802245J51	Zener de 6,8V
VR441	4802245J51	Zener de 6,8V
VR444	4802245J51	Zener de 6,8V
VR450	4802245J53	Zener de 10V
VR451	4802245J53	Zener de 10V
VR501	4813830A18	Zener de 6,8V
VR506	4802245J51	Zener de 6,8V
Y3200	4802245J43	Cristal piezoeléctrico
Y3761	4802245J49	Cristal de 16,8MHz
	7580671Z01	pad (circuito flexible)

* Sólo talleres de servicio Motorola