

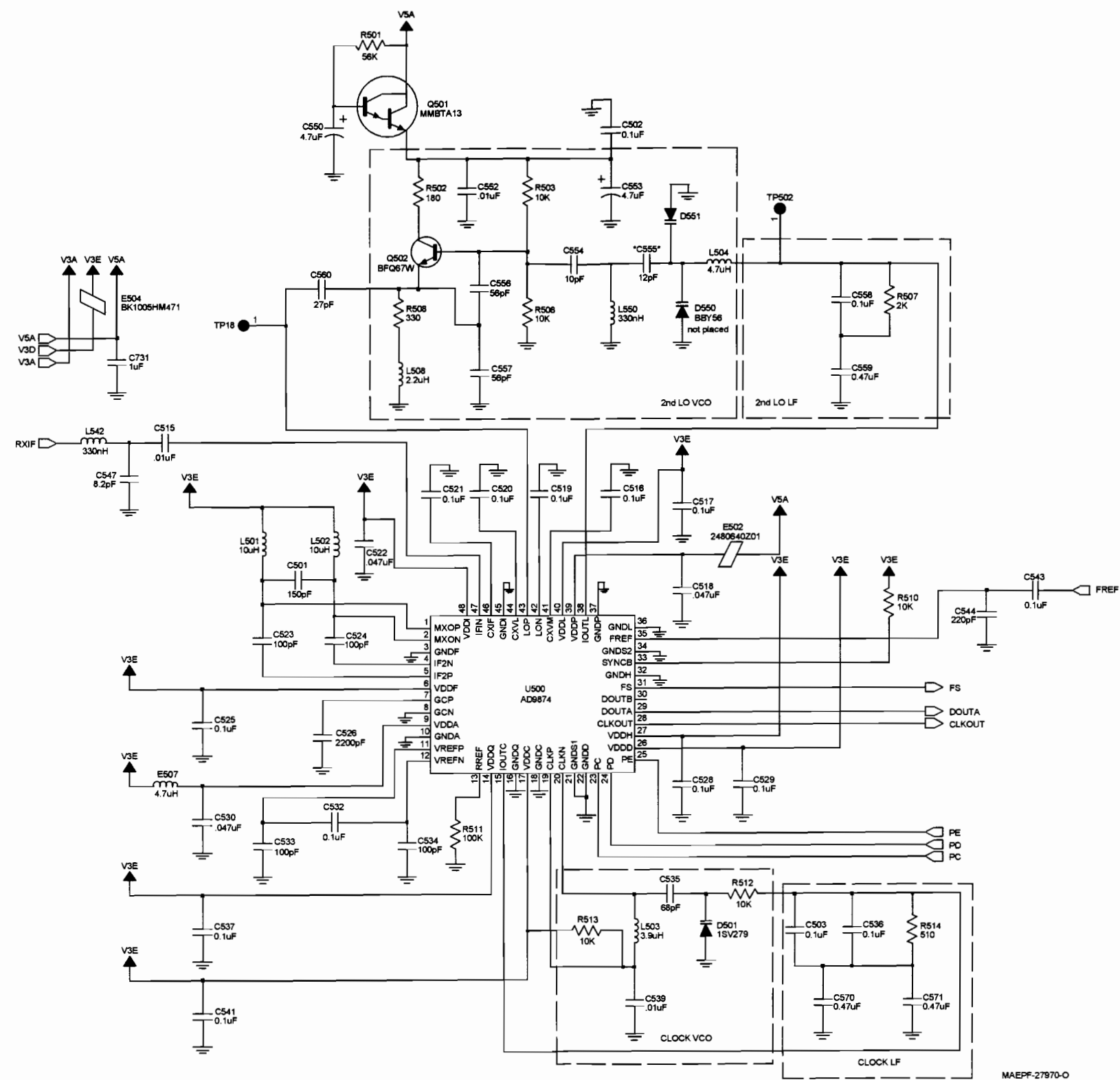
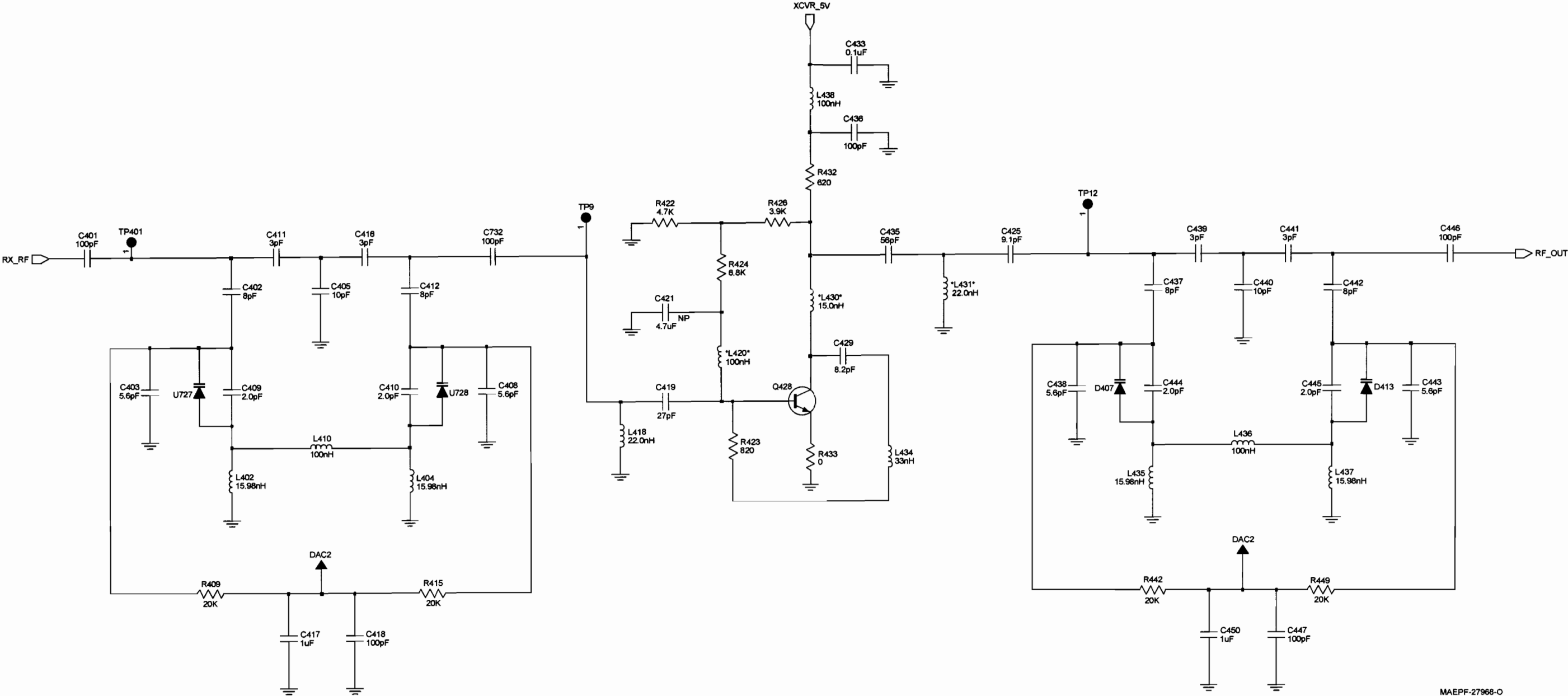


Figure 8-53. NLE 4273A UHF Range 2 Receiver Back End Circuit Schematic



MAEPF-27968-O

Figure 8-54. NLE 4273A UHF Range 2 Receiver Amplifier and Filter Circuit Schematic

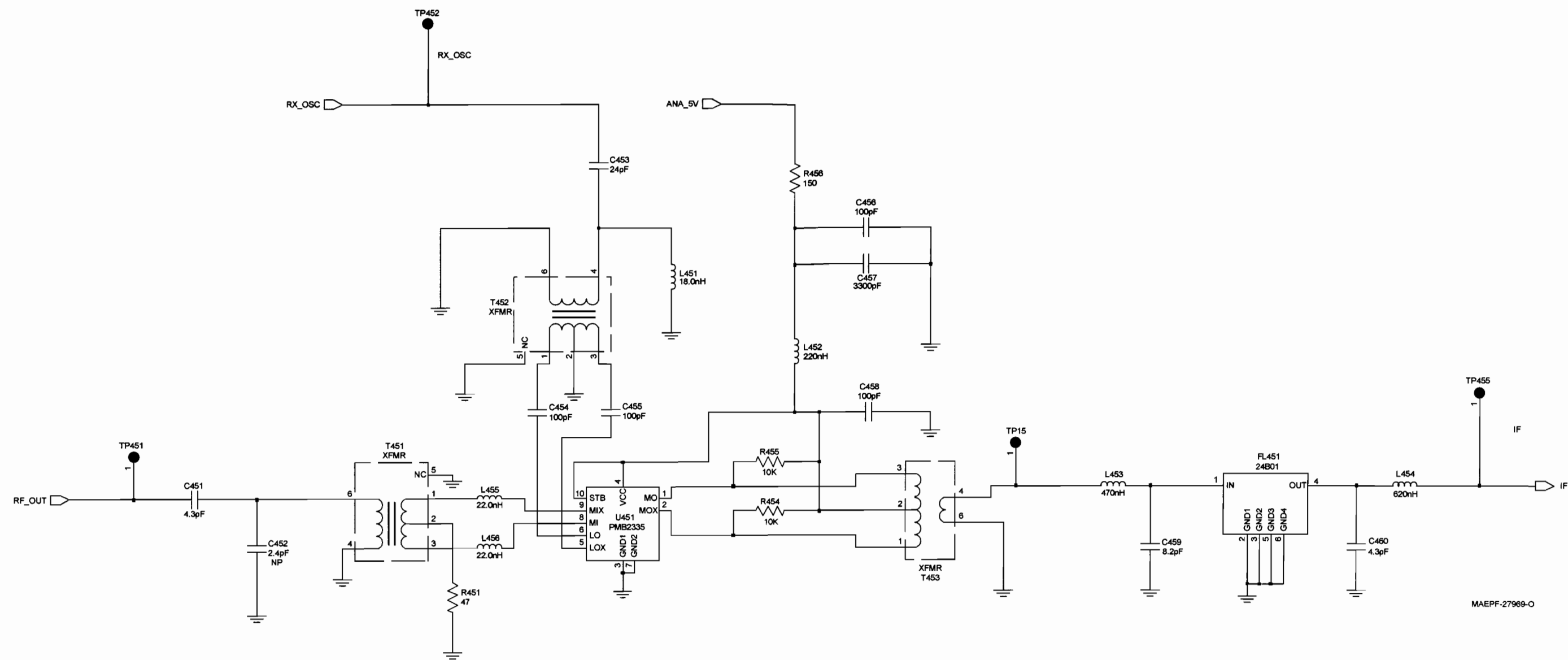


Figure 8-55. NLE 4273A UHF Range 2 Mixer and IF Filter Circuit Schematic

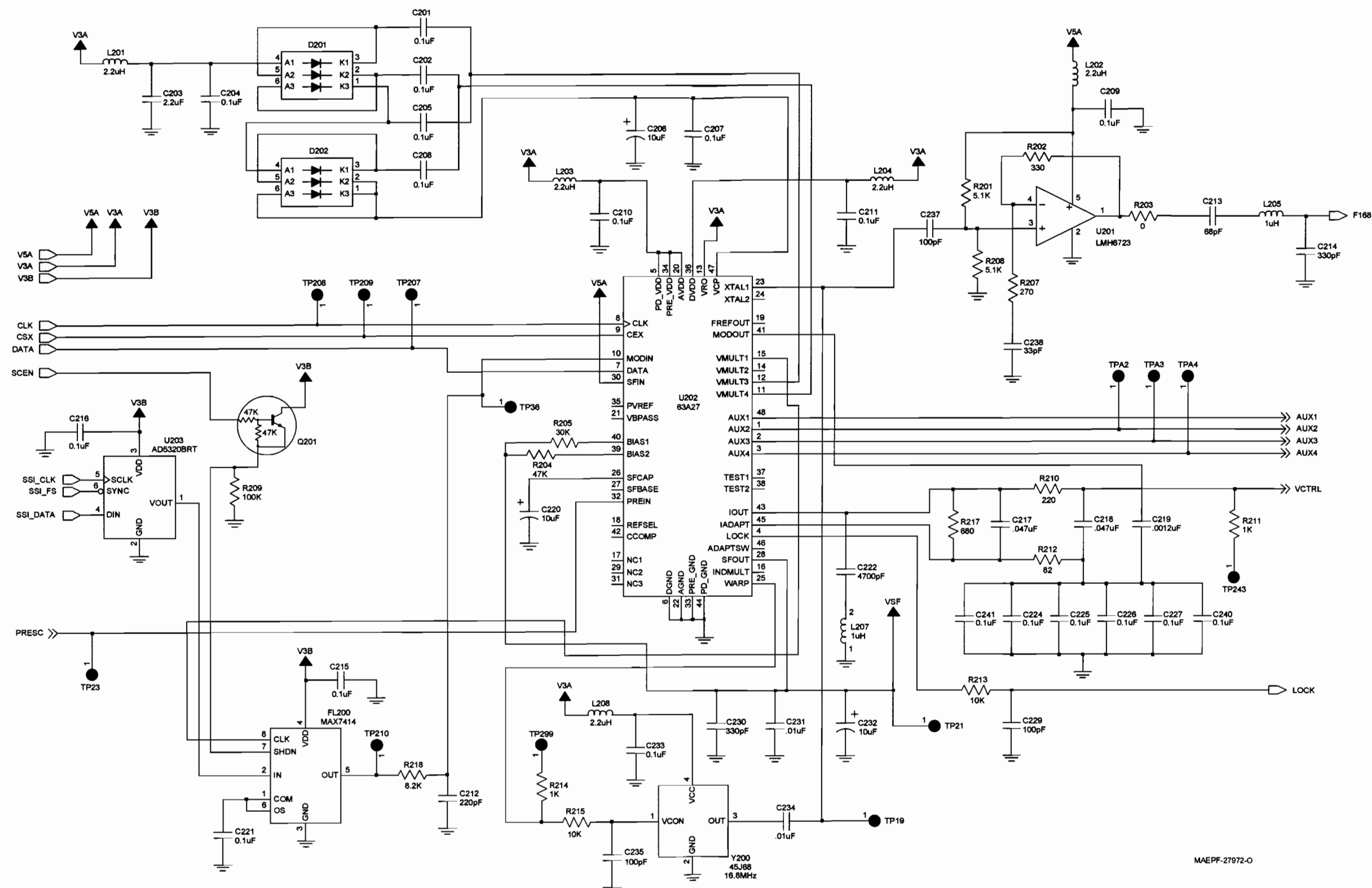
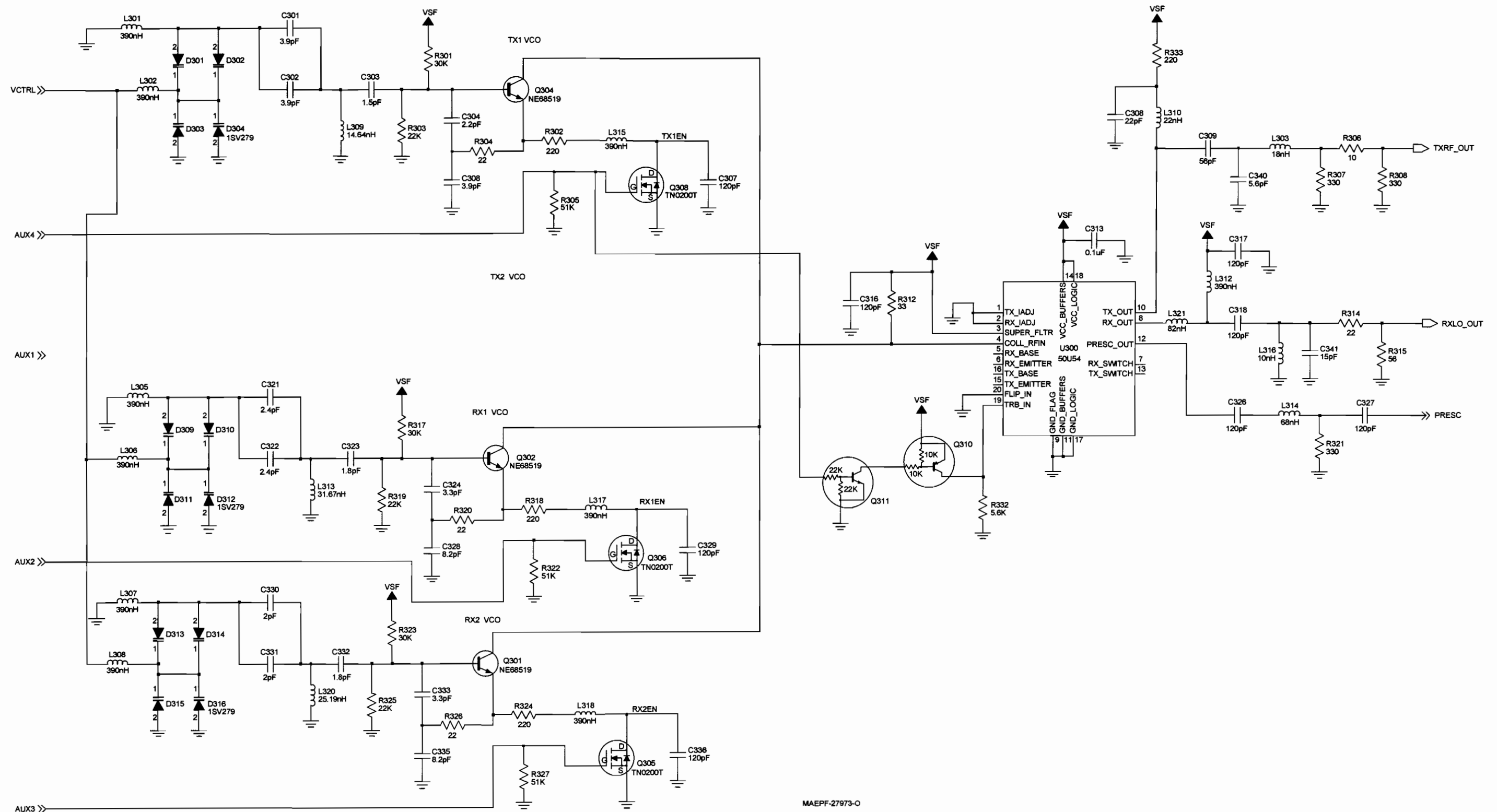


Figure 8-57. NLE 4273A UHF Range 2 Frequency Generation Unit (Synthesizer) Circuit Schematic



MAEPF-27973-O

Figure 8-58. NLE 4273A UHF Range 2 Frequency Generation Unit (VCO) Circuit Schematic

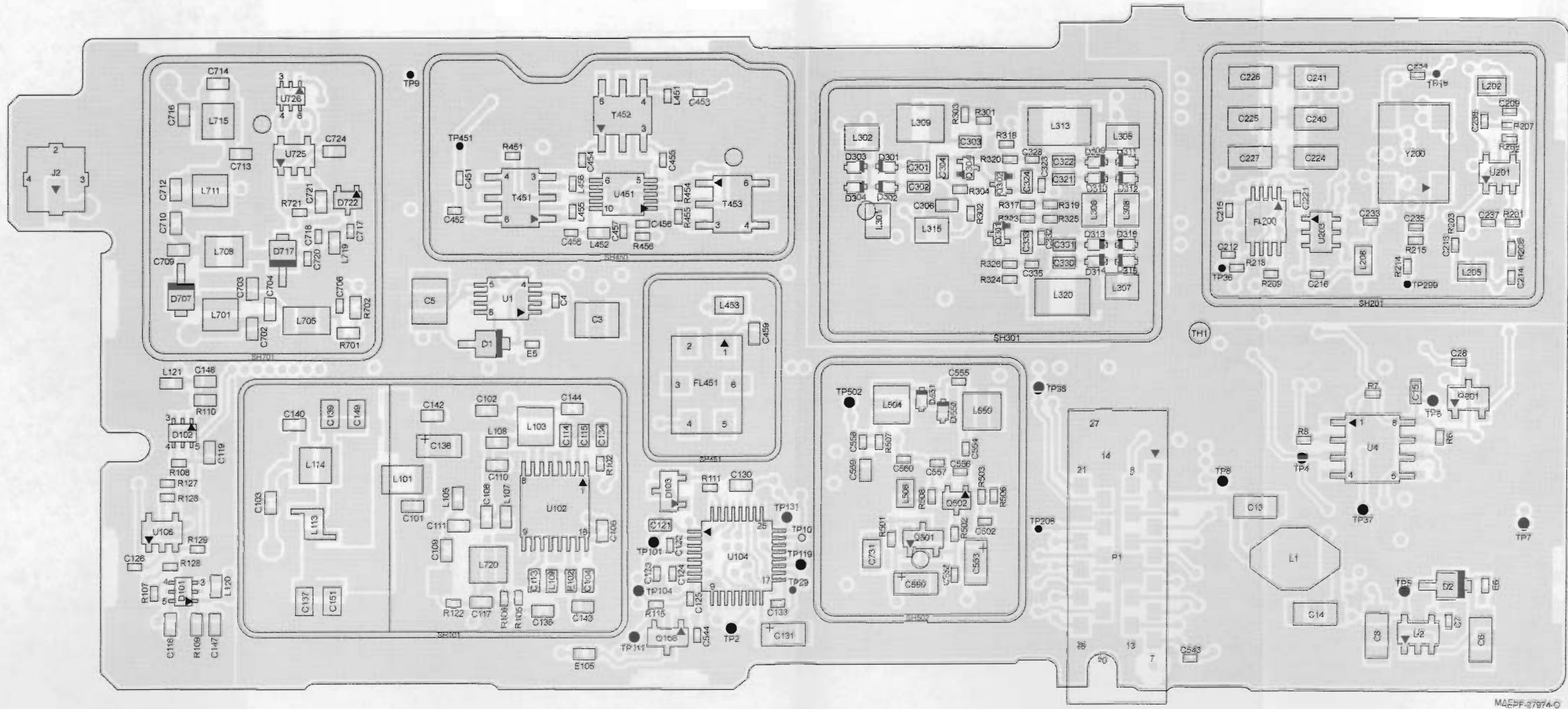
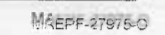


Figure 8-59. NLE 4273A UHF Range 2 Transceiver Board Layout (Side 1) Schematic



NLE 4273A UHF Range 2 Transceiver (RF)
Board Parts List

Ref. Des.	Part Number	Description
C1	2113741F49	CAP CHIP CL2 X7R REEL 10000
C10	2113743L41	CAP CHIP 10000 PF 10% X7R
C101	2113743E20	CAP CHIP .10 UF 10%
C102	2113741F49	CAP CHIP CL2 X7R REEL 10000
C103	2113740F51	CAP CHIP REEL CL1 +/-30 100
C104	2113741F49	CAP CHIP CL2 X7R REEL 10000
C106	2113740F51	CAP CHIP REEL CL1 +/-30 100
C108	2113740F51	CAP CHIP REEL CL1 +/-30 100
C109	2113740F41	CAP CHIP REEL CL1 +/-30 39
C11	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C110	2113740F18	CAP CHIP REEL CL1 +/-30 4.3
C111	2113740F30	CAP CHIP REEL CL1 +/-30 13
C113	2113740F51	CAP CHIP REEL CL1 +/-30 100
C114	2113740F51	CAP CHIP REEL CL1 +/-30 100
C115	2113740F51	CAP CHIP REEL CL1 +/-30 100
C117	2113740F51	CAP CHIP REEL CL1 +/-30 100
C118	2113740F51	CAP CHIP REEL CL1 +/-30 100
C119	2113740F51	CAP CHIP REEL CL1 +/-30 100
C12	2113740F63	CAP CHIP CL1 +/-30 330 5%
C120	2113743L41	CAP CHIP 10000 PF 10% X7R
C121	2113740F51	CAP CHIP REEL CL1 +/-30 100

Ref. Des.	Part Number	Description
C122	2113743L21	CAP CHIP 1500 PF 10% X7R
C123	2113743L09	CAP CHIP 470 PF 10% X7R
C124	2113946A01	CAP CER CHP 0.015UF 16V 10%
C125	2113743L41	CAP CHIP 10000 PF 10% X7R
C126	2113743L41	CAP CHIP 10000 PF 10% X7R
C13	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C130	2113743E20	CAP CHIP .10 UF 10%
C131	2311049A37	CAP TANT CHIP 1 20 20
C133	2113743L41	CAP CHIP 10000 PF 10% X7R
C134	2113740F51	CAP CHIP REEL CL1 +/-30 100
C135	2113740F51	CAP CHIP REEL CL1 +/-30 100
C136	2311049A37	CAP TANT CHIP 1 20 20
C137	2113742J10	CAP 39.0 PF 5%
C139	2113742J04	CAP 20.0 PF 5%
C14	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C140	2113740F23	CAP CHIP REEL CL1 +/-30 6.8
C142	2113740F51	CAP CHIP REEL CL1 +/-30 100
C143	2113740F51	CAP CHIP REEL CL1 +/-30 100
C144	2113740F51	CAP CHIP REEL CL1 +/-30 100
C146	2113743L41	CAP CHIP 10000 PF 10% X7R
C147	2113740F33	CAP CHIP REEL CL1 +/-30 18
C148	2113740F33	CAP CHIP REEL CL1 +/-30 18
C149	2113742H20	CAP 2.0 PF +/- .10 PF
C15	2113743E20	CAP CHIP .10 UF 10%
C151	2113742H40	CAP 12.0 PF 5%
C16	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG

Ref. Des.	Part Number	Description
C18	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C19	2113743L41	CAP CHIP 10000 PF 10% X7R
C2	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C20	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C201	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C202	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C203	2113743F18	CAP CHIP 2.2 UF 16V +80-20%
C204	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C205	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C206	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C207	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C208	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C209	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C21	2113743T19	CAP 10UF 16V CER 3225 X5R
C210	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C211	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C212	2113743L01	CAP CHIP 220 PF 10% X7R
C213	2113743N46	QAP CHIP 68.0 PF 5% COG
C214	2113743L05	CAP CHIP 330 PF 10% X7R
C215	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C216	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C217	2113743E12	CAP CHIP .047 UF 10% X7R
C218	2113743E12	CAP CHIP .047 UF 10% X7R

Ref. Des.	Part Number	Description
C219	2185419D08	CAP CER SUPER L/D 0.0012UF
C22	2113743T19	CAP 10UF 16V CER 3225 X5R
C220	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C221	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C222	2113743L33	CAP CHIP 4700 PF 10% X7R
C224	2185419D06	CAP CER SUPER L/D 0.1UF
C225	2185419D06	CAP CER SUPER L/D 0.1UF
C226	2185419D06	CAP CER SUPER L/D 0.1UF
C227	2185419D06	CAP CER SUPER L/D 0.1UF
C229	2113743N50	CAP CHIP 100 PF 5% COG
C23	2113743T19	CAP 10UF 16V CER 3225 X5R
C230	2113743L05	CAP CHIP 330 PF 10% X7R
C231	2113743L41	CAP CHIP 10000 PF 10% X7R
C232	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C233	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C234	2113743L41	CAP CHIP 10000 PF 10% X7R
C235	2113743N50	CAP CHIP 100 PF 5% COG
C237	2113743N50	CAP CHIP 100 PF 5% COG
C238	2113743N38	CAP CHIP 33.0 PF 5% COG
C24	2113743T19	CAP 10UF 16V CER 3225 X5R
C240	2185419D06	CAP CER SUPER L/D 0.1UF
C241	2185419D06	CAP CER SUPER L/D 0.1UF
C28	2113743L17	CAP CHIP 1000 PF 10% X7R
C3	2113743T19	CAP 10UF 16V CER 3225 X5R
C301	2113740L08	CAP CER CHIP 3.9 PF +/- 0.1PF

Ref. Des.	Part Number	Description
C302	2113740L08	CAP CER CHIP 3.9 PF +- 0.1PF
C303	2113740F07	CAP CHIP REEL CL1 +/-30 1.5
C304	2113740L02	CAP CER CHIP 2.2 PF +- 0.1PF
C306	2113740L08	CAP CER CHIP 3.9 PF +- 0.1PF
C307	2113743N52	CAP CHIP 120 PF 5% COG
C308	2113743N34	CAP CHIP 22.0 PF 5% COG
C309	2113743N44	CAP CHIP 56.0 PF 5% COG
C313	2113743E20	CAP CHIP .10 UF 10%
C316	2113743N52	CAP CHIP 120 PF 5% COG
C317	2113743N52	CAP CHIP 120 PF 5% COG
C318	2113743N52	CAP CHIP 120 PF 5% COG
C321	2113740L03	CAP CER CHIP 2.4 PF +- 0.1PF
C322	2113740L03	CAP CER CHIP 2.4 PF +- 0.1PF
C323	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C324	2113740L06	CAP CER CHIP 3.3 PF +- 0.1PF
C326	2113743N52	CAP CHIP 120 PF 5% COG
C327	2113743N52	CAP CHIP 120 PF 5% COG
C328	2113743N24	CAP CHIP 8.2 PF +- .5PF COG
C329	2113743N52	CAP CHIP 120 PF 5% COG
C330	2113740L01	CAP CER CHIP 2.0 PF +- 0.1PF
C331	2113740L02	CAP CER CHIP 2.2 PF +- 0.1PF
C332	2104801Z10	CAP CER NPO 1.5PF 16V 1005 SMD
C333	2113740L06	CAP CER CHIP 3.3 PF +- 0.1PF
C335	2113743N24	CAP CHIP 8.2 PF +- .5PF COG
C336	2113743N52	CAP CHIP 120 PF 5% COG
C340	2113743N20	CAP CHIP 5.6 PF +- .5PF COG
C341	2113743N30	CAP CHIP 15.0 PF 5% COG

Ref. Des.	Part Number	Description
C4	2113743L41	CAP CHIP 10000 PF 10% X7R
C401	2113740F51	CAP CHIP REEL CL1 +/-30 100
C402	2113743N65	CAP CHIP 8.0PF 16V .5PF COG
C403	2113743N20	CAP CHIP 5.6 PF +- .5PF COG
C405	2113743N26	CAP CHIP 10.0 PF 5% COG
C408	2113743N20	CAP CHIP 5.6 PF +- .5PF COG
C409	2113944A08	CAP CER CHP 2.0PF 50V +/- 0.25PF
C410	2113944A08	CAP CER CHP 2.0PF 50V +/- 0.25PF
C411	2113743N13	CAP CHIP 3.0 PF +- .25PF COG
C412	2113743N65	CAP CHIP 8.0PF 16V .5PF COG
C416	2113743N13	CAP CHIP 3.0 PF +- .25PF COG
C417	2113928H09	CAP CER CHIP Q.0 UF 10V
C418	2113740F51	CAP CHIP REEL CL1 +/-30 100
C419	2113743N36	CAP CHIP 27.0 PF 5% COG
C421	NOTPLACED	64AM DUMMY PART NUMBER
C425	2113743N25	CAP CHIP 9.1 PF +- .5PF COG
C429	2113743N24	CAP CHIP 8.2 PF +- .5PF COG
C433	2113743E20	CAP CHIP .10 UF 10%
C435	2113743N44	CAP CHIP 56.0 PF 5% COG
C436	2113743N50	CAP CHIP 100 PF 5% COG
C437	2113743N65	CAP CHIP 8.0PF 16V .5PF COG
C438	2113743N20	CAP CHIP 5.6 PF +- .5PF COG
C439	2113743N13	CAP CHIP 3.0 PF +- .25PF COG
C440	2113743N26	CAP CHIP 10.0 PF 5% COG
C441	2113743N13	CAP CHIP 3.0 PF +- .25PF COG
C442	2113743N65	CAP CHIP 8.0PF 16V .5PF COG

Ref. Des.	Part Number	Description
C443	2113743N20	CAP CHIP 5.6 PF +- .5PF COG
C444	2113944A08	CAP CER CHP 2.0PF 50V +/- 0.25PF
C445	2113944A08	CAP CER CHP 2.0PF 50V +/- 0.25PF
C446	2113740F51	CAP CHIP REEL CL1 +/-30 100
C447	2113740F51	CAP CHIP REEL CL1 +/-30 100
C450	2113928H09	CAP CER CHIP Q.0 UF 10V
C451	2113743N17	CAP CHIP 4.3 PF +- .25PF COG
C452	NOTPLACED	64AM DUMMY PART NUMBER
C453	2113743N35	CAP CHIP 24.0 PF 5% COG
C454	2113743N50	CAP CHIP 100 PF 5% COG
C455	2113743N50	CAP CHIP 100 PF 5% COG
C456	2113743N50	CAP CHIP 100 PF 5% COG
C457	2113743L29	CAP CHIP 3300 PF 10% X7R
C458	2113743N50	CAP CHIP 100 PF 5% COG
C459	2113740F25	CAP CHIP REEL CL1 +/-30 8.2
C460	2113740F18	CAP CHIP REEL CL1 +/-30 4.3
C5	2113743T19	CAP 10UF 16V CER 3225 X5R
C501	2113743N54	CAP CHIP 150 PF 5% COG
C502	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C503	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C515	2113743L41	CAP CHIP 10000 PF 10% X7R
C516	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C517	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C518	2113743E12	CAP CHIP .047 UF 10% X7R
C519	2113743M24	CAP CHIP 100000 PF +80-20% Y5V

Ref. Des.	Part Number	Description
C520	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C521	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C522	2113743E12	CAP CHIP .047 UF 10% X7R
C523	2113743N50	CAP CHIP 100 PF 5% COG
C524	2113743N50	CAP CHIP 100 PF 5% COG
C525	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C526	2113743L25	CAP CHIP 2200 PF 10% X7R
C528	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C529	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C530	2113743E12	CAP CHIP .047 UF 10% X7R
C532	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C533	2113743N50	CAP CHIP 100 PF 5% COG
C534	2113743N50	CAP CHIP 100 PF 5% COG
C535	2113743N46	QAP CHIP 68.0 PF 5% COG
C536	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C537	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C539	2113743L41	CAP CHIP 10000 PF 10% X7R
C541	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C543	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C544	2113743L01	CAP CHIP 220 PF 10% X7R
C547	2113743N24	CAP CHIP 8.2 PF +- .5PF COG
C550	2311049A62	CAP TAN CHIP A/P 4.7 10 10
C552	2113743L41	CAP CHIP 10000 PF 10% X7R
C553	2311049A62	CAP TAN CHIP A/P 4.7 10 10
C554	2113743N26	CAP CHIP 10.0 PF 5% COG
C555	2113743N30	CAP CHIP 15.0 PF 5% COG

Ref. Des.	Part Number	Description
C556	2113743N44	CAP CHIP 56.0 PF 5% COG
C557	2113743N44	CAP CHIP 56.0 PF 5% COG
C558	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C559	2113946D01	CAP CER CHP 0.47UF 6.3V 10%
C560	2113743N36	CAP CHIP 27.0 PF 5% COG
C570	2113946D01	CAP CER CHP 0.47UF 6.3V 10%
C571	2113946D01	CAP CER CHP 0.47UF 6.3V 10%
C6	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C7	2113743L41	CAP CHIP 10000 PF 10% X7R
C702	2113740L08	CAP CER CHIP 3.9 PF +/- 0.1PF
C703	2113740F05	CAP CHIP REEL CL1 +/-30 1.2
C704	NOTPLACED	64AM DUMMY PART NUMBER
C706	2113743L41	CAP CHIP 10000 PF 10% X7R
C709	2113740F22	CAP CHIP REEL CL1 +/-30 6.2
C710	2113740F51	CAP CHIP REEL CL1 +/-30 100
C712	2113740F05	CAP CHIP REEL CL1 +/-30 1.2
C713	2113740F24	CAP CHIP REEL CL1 +/-30 7.5
C714	2113740L04	CAP CER CHIP 2.7 PF +/- 0.1PF
C716	NOTPLACED	64AM DUMMY PART NUMBER
C717	NOTPLACED	64AM DUMMY PART NUMBER
C718	2113743N24	CAP CHIP 8.2 PF + -.5PF COG
C720	2109445U09	CAP CER COG 1.8 .1% 0402 SMD
C721	2113743E20	CAP CHIP .10 UF 10%
C724	2113740F63	CAP CHIP CL1 +/-30 330 5%

Ref. Des.	Part Number	Description
C731	2113928E01	CAP CER CHIP 1.0 UF 10 % 10V
C732	2113740F51	CAP CHIP REEL CL1 +/-30 100
C8	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C9	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
D1	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D101	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D102	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D103	4805129M06	DIODE MMBD7000
D2	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D201	4802233J09	DIODE TRIPLE SOT25-RH
D202	4802233J09	DIODE TRIPLE SOT25-RH
D3	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D301	4809877C08	DIODE VARACTOR 1SV279 SMD
D302	4809877C08	DIODE VARACTOR 1SV279 SMD
D303	4809877C08	DIODE VARACTOR 1SV279 SMD
D304	4809877C08	DIODE VARACTOR 1SV279 SMD
D309	4809877C08	DIODE VARACTOR 1SV279 SMD
D310	4809877C08	DIODE VARACTOR 1SV279 SMD
D311	4809877C08	DIODE VARACTOR 1SV279 SMD
D312	4809877C08	DIODE VARACTOR 1SV279 SMD
D313	4809877C08	DIODE VARACTOR 1SV279 SMD
D314	4809877C08	DIODE VARACTOR 1SV279 SMD
D315	4809877C08	DIODE VARACTOR 1SV279 SMD
D316	4809877C08	DIODE VARACTOR 1SV279 SMD

Ref. Des.	Part Number	Description
D4	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D407	4809877C13	DIODE VARACTOR ISV305 SMD
D413	4809877C13	DIODE VARACTOR ISV305 SMD
D501	4809877C08	DIODE VARACTOR 1SV279 SMD
D550	NOTPLACED	64AM DUMMY PART NUMBER
D551	4809877C13	DIODE VARACTOR ISV305 SMD
D707	4805656W24	DIODE, PIN RF
D717	4805656W24	DIODE, PIN RF
D722	4813825A19	DIODE SCHOTTKY BARRIER SERIES
E1	2405688Z01	INDUCTOR FERRITE BEAD
E101	2405688Z01	INDUCTOR FERRITE BEAD
E102	2480574F01	IND FERRITE CHIP 600 OHM 0603
E105	2480574F01	IND FERRITE CHIP 600 OHM 0603
E4	2405688Z01	INDUCTOR FERRITE BEAD
E5	2480640Z01	SURFACE MOUNT FERRITE BEAD
E502	2480640Z01	SURFACE MOUNT FERRITE BEAD
E504	2480640Z01	SURFACE MOUNT FERRITE BEAD
E507	2462587N76	CHIP IND 4700 NH 5%
E6	2480640Z01	SURFACE MOUNT FERRITE BEAD
E7	2480640Z01	SURFACE MOUNT FERRITE BEAD
E8	2480640Z01	SURFACE MOUNT FERRITE BEAD
F901	6505757V02	FUSE SURFACE MT 2AMP
FL200	9185130D01	FLTR SW CAP 3 POLE BUTTERW
FL451	9185924B01	FILTER, 73.35 MHZ 3-POLE CRYSTAL
G1	3905643V01	CONTACT ANT GRD

Ref. Des.	Part Number	Description
G10	3905643V01	CONTACT ANT GRD
G12	3905643V01	CONTACT ANT GRD
G2	3905643V01	CONTACT ANT GRD
G5	3905643V01	CONTACT ANT GRD
G6	3905643V01	CONTACT ANT GRD
G7	3905643V01	CONTACT ANT GRD
G9	3905643V01	CONTACT ANT GRD
J1	NOTPLACED	64AM DUMMY PART NUMBER
J2	0905304Z01	CONN COAXIAL SMT
L1	2486085A06	COIL 47UH SMT POWER INDUCTOR
L101	2460591E24	COIL AIR WOUND INDUC 23.75
L103	2462587N56	CHIP IND 180 NH 5%
L105	2413926F04	IND 2.2 NH +/-0.3 NH
L107	2409377M26	IDCTR,CHIP,8.7NH,5%,700 MA.,109OHM,S
L108	2413926G08	IND 12.0 NH 5%
L109	2413926G09	IND 15.0 NH 5%
L113	2409348J01	IND AIR CORE 1.65NH 10% 2214
L114	2460591A50	COIL AIR WOUND INDUC 9.75
L120	2409377M03	IDCTR,CHIP,6.8NH,5%,700 MA.,110HM,SM
L121	2409377M03	IDCTR,CHIP,6.8NH,5%,700 MA.,110HM,SM
L2	2462587L50	FERRITE INDUCTOR 100UH
L201	2462587Q20	IND CHIP 2,200 NH 20%
L202	2462587Q20	IND CHIP 2,200 NH 20%
L203	2462587Q20	IND CHIP 2,200 NH 20%
L204	2462587Q20	IND CHIP 2,200 NH 20%
L205	2462587Q47	IND CHIP 1,000 NH 10%
L207	2462587Q47	IND CHIP 1,000 NH 10%
L208	2462587Q20	IND CHIP 2,200 NH 20%
L301	2462587V59	IND CHIP 390 NH 5%
L302	2462587V59	IND CHIP 390 NH 5%
L303	2409377M07	IDCTR,CHIP,18NH,5%,700 MA.,170HM,SM,

Ref. Des.	Part Number	Description
L305	2462587V59	IND CHIP 390 NH 5%
L306	2462587V59	IND CHIP 390 NH 5%
L307	2462587V59	IND CHIP 390 NH 5%
L308	2462587V59	IND CHIP 390 NH 5%
L309	2460591C62	INDUCTOR 14.64NH AIR WOUND
L310	2409377M08	IDCTR,CHIP,22NH,5%,700 MA,,19OHM,SM,
L312	2462587V59	IND CHIP 390 NH 5%
L313	2460591E74	COIL AIR WOUND INDUC 31.67
L314	2409377M14	IDCTR,CHIP,68NH,5%,600 MA,,34OHM,SM,
L315	2462587V59	IND CHIP 390 NH 5%
L316	2409377M04	IDCTR,CHIP,10NH,5%,700 MA,,13OHM,SM,
L317	2462587V59	IND CHIP 390 NH 5%
L318	2462587V59	IND CHIP 390 NH 5%
L320	2460591D74	COIL AIR WOUND INDUC 25.19
L321	2409377M16	IDCTR,CHIP,82NH,5%,400 MA,,58OHM,SM,
L402	2460591C24	COIL AIR WOUND INDUC 15.98
L404	2460591C24	COIL AIR WOUND INDUC 15.98
L410	2462587V34	CHIP IND 100 NH 5% 0805
L418	2409154M92	FIXED INDUCTOR,CHIP,22NH,5%, 200MA,,
L420	2409154M01	FIXED INDUCTOR,CHIP,1NH,1OH M,,1
L430	2409154M92	FIXED INDUCTOR,CHIP,22NH,5%, 200MA,,
L431	2409154M92	FIXED INDUCTOR,CHIP,22NH,5%, 200MA,,
L434	2409377M10	IDCTR,CHIP,33NH,5%,600 MA,,22OHM,SM,
L435	2460591C24	COIL AIR WOUND INDUC 15.98
L436	2462587V34	CHIP IND 100 NH 5% 0805

Ref. Des.	Part Number	Description
L437	2460591C24	COIL AIR WOUND INDUC 15.98
L438	2409154M50	FIXED INDUCTOR,COMP,100NH,5 %,,5.5OH
L451	2409154M66	FIXED INDUCTOR,CHIP,18NH,55 %,,7OHM
L452	2409377M36	IDCTR,CHIP,220NH,5%,200 MA,,2.1OHM,SM
L453	2462587Q43	IND CHIP 470 NH 10%
L454	2462587T25	IND CHIP 620NH 5% LOW PRO
L455	2409154M67	FIXED INDUCTOR,CHIP,22NH,5%, ,.8OHM,
L456	2409154M67	FIXED INDUCTOR,CHIP,22NH,5%, ,.8OHM,
L501	2405769X05	COIL INDUCTOR
L502	2405769X05	COIL INDUCTOR
L503	2462587Q54	IND CHIP 3,900 NH 10%
L504	2462587N76	CHIP IND 4700 NH 5%
L508	2462587Q51	IND CHIP 2,200 NH 10%
L542	2404574Z15	IND CHIP VW 330NH 2% 2012 SMD
L550	2462587N59	CHIP IND 330 NH 5%
L701	2460591A50	COIL AIR WOUND INDUC 9.75
L705	2462587T30	IND CHIP 1000NH 5% LOW PRO
L708	2479990C03	AIR WND COIL/GREEN COLOR 13.85
L711	2460591A50	COIL AIR WOUND INDUC 9.75
L715	2460591A50	COIL AIR WOUND INDUC 9.75
L719	2409377M30	IDCTR,CHIP,24NH,5%,700 MA,,135OHM,SM
L720	2462587N68	CHIP IND 1000 NH 5%
P1	NOTPLACED	64AM DUMMY PART NUMBER
PCB	8485325E01	PCB RF UHF RNG 2
Q1	4813821A47	TSTR P-CH HDTMOS 20V

Ref. Des.	Part Number	Description
Q101	4813824A42	TSTR PNP 50V BIAS RES 10K 10K
Q102	4813821A47	TSTR P-CH HDTMOS 20V
Q103	4813824A42	TSTR PNP 50V BIAS RES 10K 10K
Q104	4813821A47	TSTR P-CH HDTMOS 20V
Q105	4805128M12	TSTR SOT BCW 60B (RH)
Q106	4880048M01	TSTR NPN DIG 47K/47K
Q107	5185633C51	MODULE RING TRANSISTOR PWR FET 800MH
Q108	4805128M12	TSTR SOT BCW 60B (RH)
Q2	4880048M01	TSTR NPN DIG 47K/47K
Q201	4880048M01	TSTR NPN DIG 47K/47K
Q301	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q302	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q304	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q305	4809579E16	TSTR MOSFET N-CHAN TN0200T
Q306	4809579E16	TSTR MOSFET N-CHAN TN0200T
Q308	4809579E16	TSTR MOSFET N-CHAN TN0200T
Q310	4813824A42	TSTR PNP 50V BIAS RES 10K 10K
Q311	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q428	4805585Q19	TRANSISTOR
Q501	4805128M19	TSTR SOT23 MMBTA13 RH
Q502	4805218N63	RF TRANS SOT 323 BFQ67W
Q503	4813821A47	TSTR P-CH HDTMOS 20V
R1	0662057N23	RES. CHIP 100K 5% 20X40
R101	0662057N23	RES. CHIP 100K 5% 20X40
R102	0662057M01	RES. CHIP 0 5% 20X40
R105	0662057N03	RES. CHIP 15K 5% 20X40
R106	0662057N09	RES. CHIP 27K 5% 20X40
R107	0662057M67	RES. CHIP 510 5% 20X40
R108	0662057M67	RES. CHIP 510 5% 20X40

Ref. Des.	Part Number	Description
R109	0662057A25	CHIP RES 100 OHMS 5%
R110	0662057A25	CHIP RES 100 OHMS 5%
R111	0662057N23	RES. CHIP 100K 5% 20X40
R112	0662057N23	RES. CHIP 100K 5% 20X40
R113	0662057N23	RES. CHIP 100K 5% 20X40
R114	0662057N23	RES. CHIP 100K 5% 20X40
R115	0662057M74	RES. CHIP 1000 5% 20X40
R118	0662057M50	RES. CHIP 100 5% 20X40
R119	0662057M50	RES. CHIP 100 5% 20X40
R120	0662057M50	RES. CHIP 100 5% 20X40
R121	0662057M50	RES. CHIP 100 5% 20X40
R122	0662057M74	RES. CHIP 1000 5% 20X40
R124	0662057N23	RES. CHIP 100K 5% 20X40
R126	0662057M98	RES. CHIP 10K 5% 20X40
R127	0662057M98	RES. CHIP 10K 5% 20X40
R128	0662057M98	RES. CHIP 10K 5% 20X40
R129	0662057M98	RES. CHIP 10K 5% 20X40
R131	NOTPLACED	64AM DUMMY PART NUMBER
R132	0662057M01	RES. CHIP 0 5% 20X40
R201	0662057M91	RES CHIP 5100 5% 20X40
R202	0662057M62	RES. CHIP 330 5% 20X40
R203	0662057M01	RES. CHIP 0 5% 20X40
R204	0662057N15	RES. CHIP 47K 5% 20X40
R205	0662057N10	RES. CHIP 30K 5% 20X40
R207	0662057M60	RES. CHIP 270 5% 20X40
R208	0662057M91	RES CHIP 5100 5% 20X40
R209	0662057N23	RES. CHIP 100K 5% 20X40
R210	0662057M58	RES. CHIP 220 5% 20X40
R211	0662057M74	RES. CHIP 1000 5% 20X40
R212	0662057M48	RES. CHIP 82 5% 20X40
R213	0662057M98	RES. CHIP 10K 5% 20X40
R214	0662057M74	RES. CHIP 1000 5% 20X40
R215	0662057M98	RES. CHIP 10K 5% 20X40
R217	0662057M70	RES. CHIP 680 5% 20X40
R218	0662057M96	RES. CHIP 8200 5% 20X40
R301	0662057N10	RES. CHIP 30K 5% 20X40
R302	0662057M58	RES. CHIP 220 5% 20X40
R303	0662057N07	RES. CHIP 22K 5% 20X40

Ref. Des.	Part Number	Description
R304	0662057M34	RES. CHIP 22 5% 20X40
R305	0662057N16	RES. CHIP 51K 5% 20X40
R306	0662057M26	RES. CHIP 10 5% 20X40
R307	0662057M62	RES. CHIP 330 5% 20X40
R308	0662057M62	RES. CHIP 330 5% 20X40
R312	0662057M38	RES. CHIP 33 5% 20X40
R314	0662057M34	RES. CHIP 22 5% 20X40
R315	0662057M44	RES CHIP 56 5% 20X40
R317	0662057N10	RES. CHIP 30K 5% 20X40
R318	0662057M58	RES. CHIP 220 5% 20X40
R319	0662057N07	RES. CHIP 22K 5% 20X40
R320	0662057M34	RES. CHIP 22 5% 20X40
R321	0662057M62	RES. CHIP 330 5% 20X40
R322	0662057N16	RES. CHIP 51K 5% 20X40
R323	0662057N09	RES. CHIP 27K 5% 20X40
R324	0662057M58	RES. CHIP 220 5% 20X40
R325	0662057N07	RES. CHIP 22K 5% 20X40
R326	0662057M34	RES. CHIP 22 5% 20X40
R327	0662057N16	RES. CHIP 51K 5% 20X40
R332	0662057M92	RES. CHIP 5600 5% 20X40
R333	0662057M58	RES. CHIP 220 5% 20X40
R409	0662057N06	RES. CHIP 20K 5% 20X40
R415	0662057N06	RES. CHIP 20K 5% 20X40
R422	0662057M90	RES. CHIP 4700 5% 20X40
R423	0662057M72	RES. CHIP 820 5% 20X40
R424	0662057M94	RES. CHIP 6800 5% 20X40
R426	0662057M88	RES. CHIP 3900 5% 20X40
R432	0662057M69	RES. CHIP 620 5% 20X40
R433	0662057M01	RES. CHIP 0 5% 20X40
R442	0662057N06	RES. CHIP 20K 5% 20X40
R449	0662057N06	RES. CHIP 20K 5% 20X40
R451	0662057M42	RES. CHIP 47 5% 20X40
R454	0662057M98	RES. CHIP 10K 5% 20X40
R455	0662057M98	RES. CHIP 10K 5% 20X40
R456	0662057M54	RES. CHIP 150 5% 20X40
R501	0662057N17	RES. CHIP 56K 5% 20X40
R502	0662057M56	RES. CHIP 180 5% 20X40
R503	0662057M98	RES. CHIP 10K 5% 20X40

Ref. Des.	Part Number	Description
R506	0662057M98	RES. CHIP 10K 5% 20X40
R507	0662057M81	RES. CHIP 2000 5% 20X40
R508	0662057M62	RES. CHIP 330 5% 20X40
R510	0662057M98	RES. CHIP 10K 5% 20X40
R511	0662057N23	RES. CHIP 100K 5% 20X40
R512	0662057M98	RES. CHIP 10K 5% 20X40
R513	0662057M98	RES. CHIP 10K 5% 20X40
R514	0662057M67	RES. CHIP 510 5% 20X40
R6	0662057M98	RES. CHIP 10K 5% 20X40
R7	0662057M98	RES. CHIP 10K 5% 20X40
R701	0662057A23	CHIP RES 82 OHMS 5%
R702	0662057A23	CHIP RES 82 OHMS 5%
R721	NOTPLACED	64AM DUMMY PART NUMBER
R8	0662057M50	RES. CHIP 100 5% 20X40
SH101	2685074D02	SHIELD PA
SH201	2685787B01	SHLD FRAC-N
SH202	2685787B01	SHLD FRAC-N
SH301	2685297D02	SHIELD VCO
SH302	2685298D01	SHLD VCO BUFFER
SH401	2685071D02	SHIELD 16.8 REFERENCE
SH402	2685153E01	SHEILD LNA
SH450	2685965D01	SHIELD MIXER
SH451	2685070D02	SHIELD COVER, CRYSTAL FILTER
SH501	2685787B01	SHLD FRAC-N
SH502	2685786D01	SHEILD ABACUS 2ND LO
SH701	2685784D01	SHEILD HARMONIC FILTER
T451	2580541Z02	BALUN TRANSFORMER (NEW)
T452	2580541Z02	BALUN TRANSFORMER (NEW)
T453	2585918C01	XFMR SMALL SIGNAL SURFACE MT
U1	5185353D13	IC MINI SO-8 HI PRECISION REG 5V
U102	5185130C65	IC VHF/UHF/800 MHZ LDMOS DRIVER
U103	5185963A15	IC TEMPERTURE SENSOR 1M50C
U104	5185765B26	IC PWR CTRL IN MOS20

Ref. Des.	Part Number	Description
U105	5185368C19	IC QUAD 10 BIT A/D CONV
U106	5185963A60	IC OP AMP
U2	5185353D14	IC SOT23-5 HI PRECISION REG 3V
U201	5185956E66	IC,OP AMP,1PER PKG,LMH6723,IC
U202	5185963A27	IC TESTED AT25016 48 PIN GFP
U203	5185368C83	IC 12 BIT DAC
U3	5185353D14	IC SOT23-5 HI PRECISION REG 3V
U300	5105750U54	IC PKG DIE VCO BUFFER
U4	5105462G78	IC EEPROM 16K SPEI CMOS
U451	5185130C91	IC MIXER RF SOIC 10
U5	5185353D14	IC SOT23-5 HI PRECISION REG 3V
U500	5185963A85	IC-ABACUS III-LP
U725	5185130C83	IC 15DB DIGITAL ATTEUATOR SOT25 PKG
U726	5185143E12	IC INVERTER DUAL SC70
U727	4809877C13	DIODE VARACTOR ISV305 SMD
U728	4809877C13	DIODE VARACTOR ISV305 SMD
VR1	4813830A33	DIODE 20V 5% 225MW MMBZ5250B_
VR2	4813830A15	DIODE 5.6V 5% 225MW MMBZ5232B_
VR3	4805656W45	DIODE TRANSIENT VOLTAGE SUPPRESSOR
Y200	4802245J68	OSC, REF 16.8 MHZ 1.5 PPM

8.4 VOCON Boards

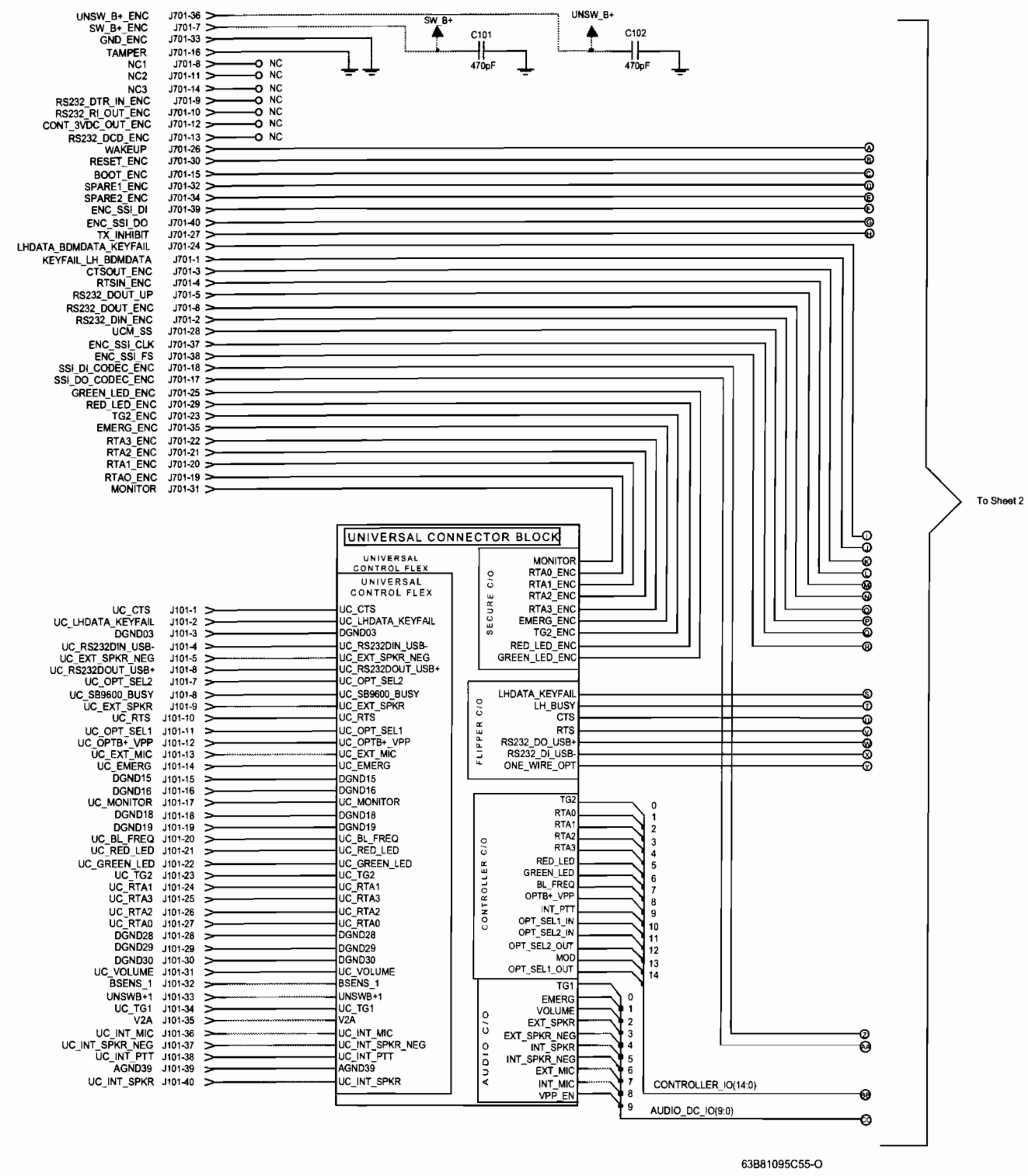


Figure 8-61. NTN9564B VOCON Board Overall Schematic—1 of 2

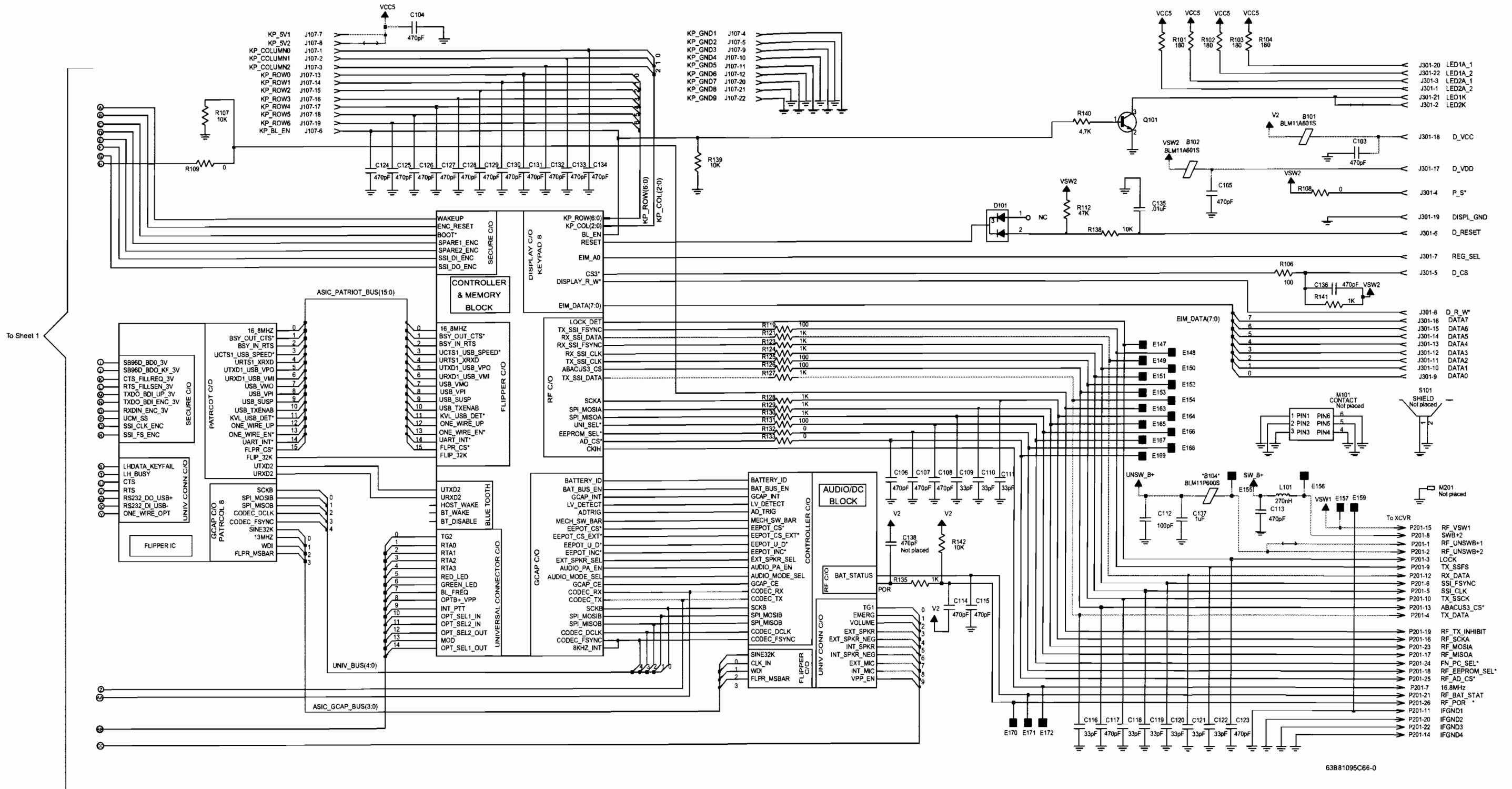


Figure 8-62. NTN9564B VOCON Board Overall Schematic—2 of 2

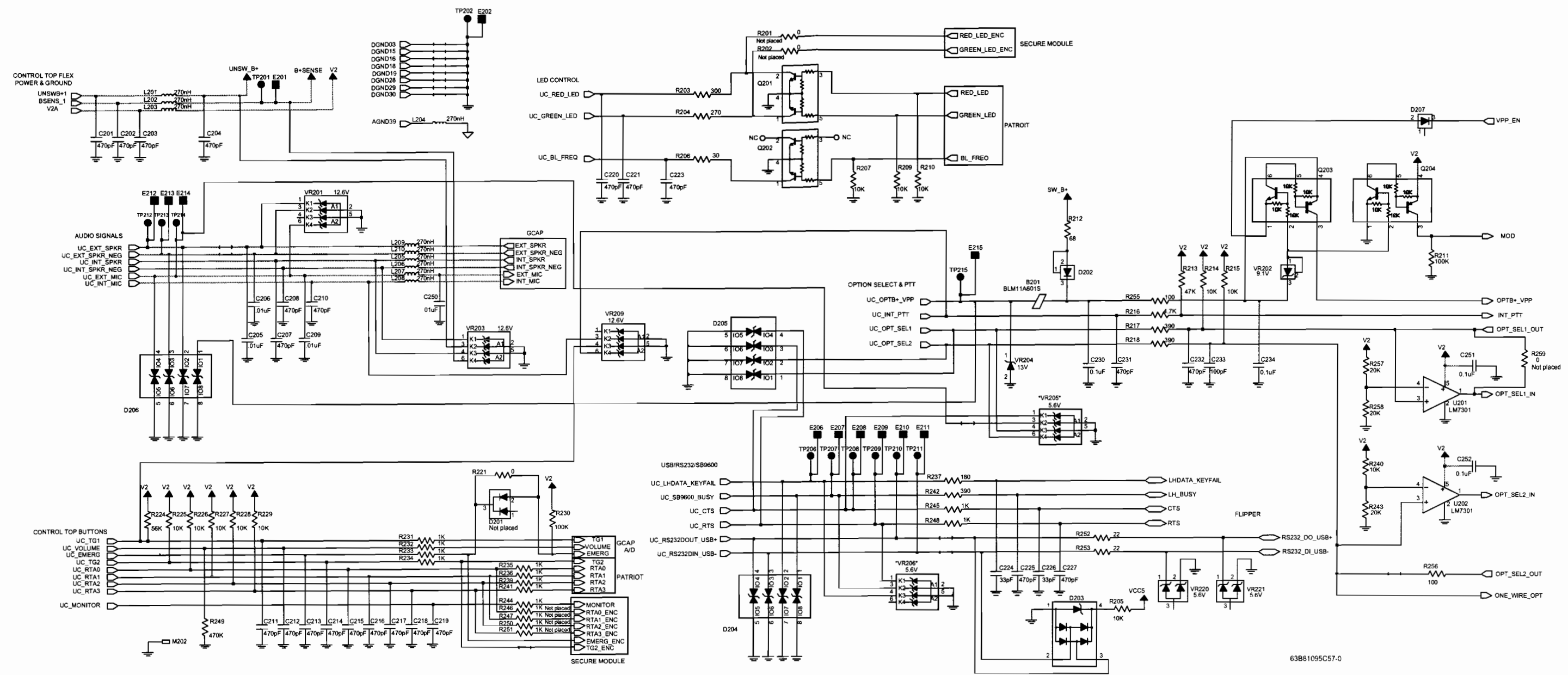


Figure 8-63. NTN9564B VOCON Universal Connector Circuit

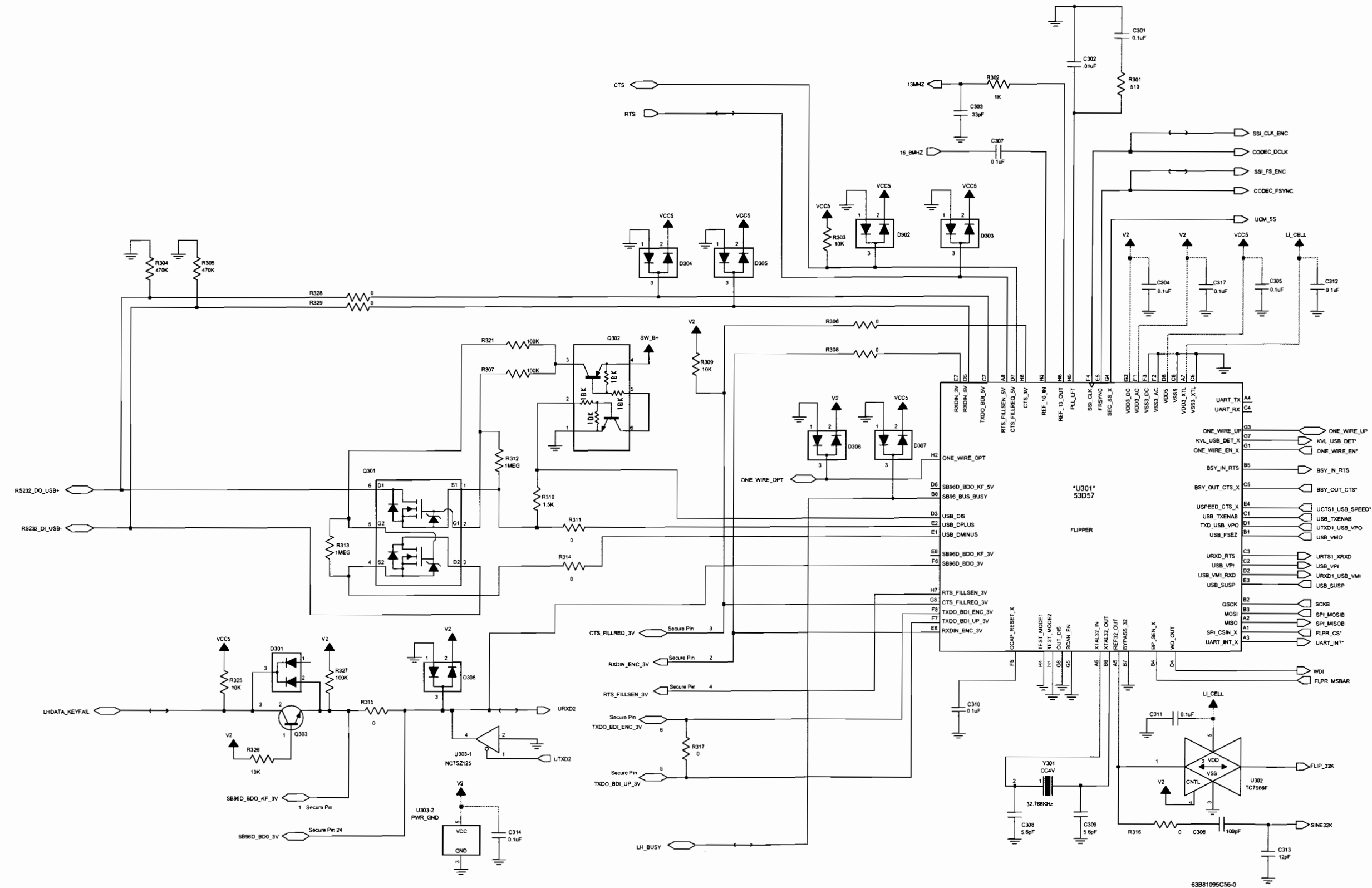


Figure 8-64. NTN9564B VOCON Flipper Circuit

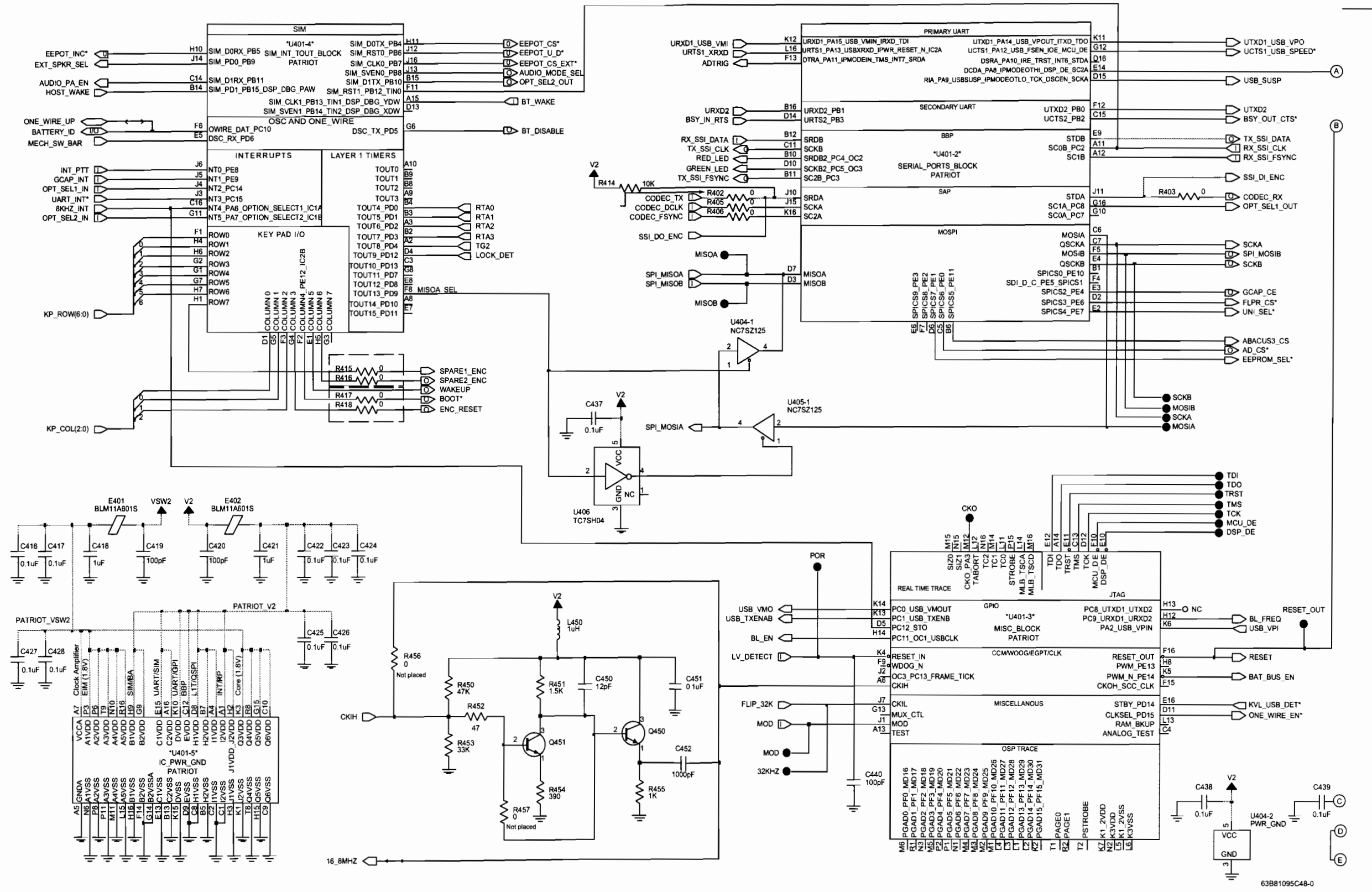


Figure 8-65. NTN9564B VOCON Controller and Memory Circuits—1 of 2

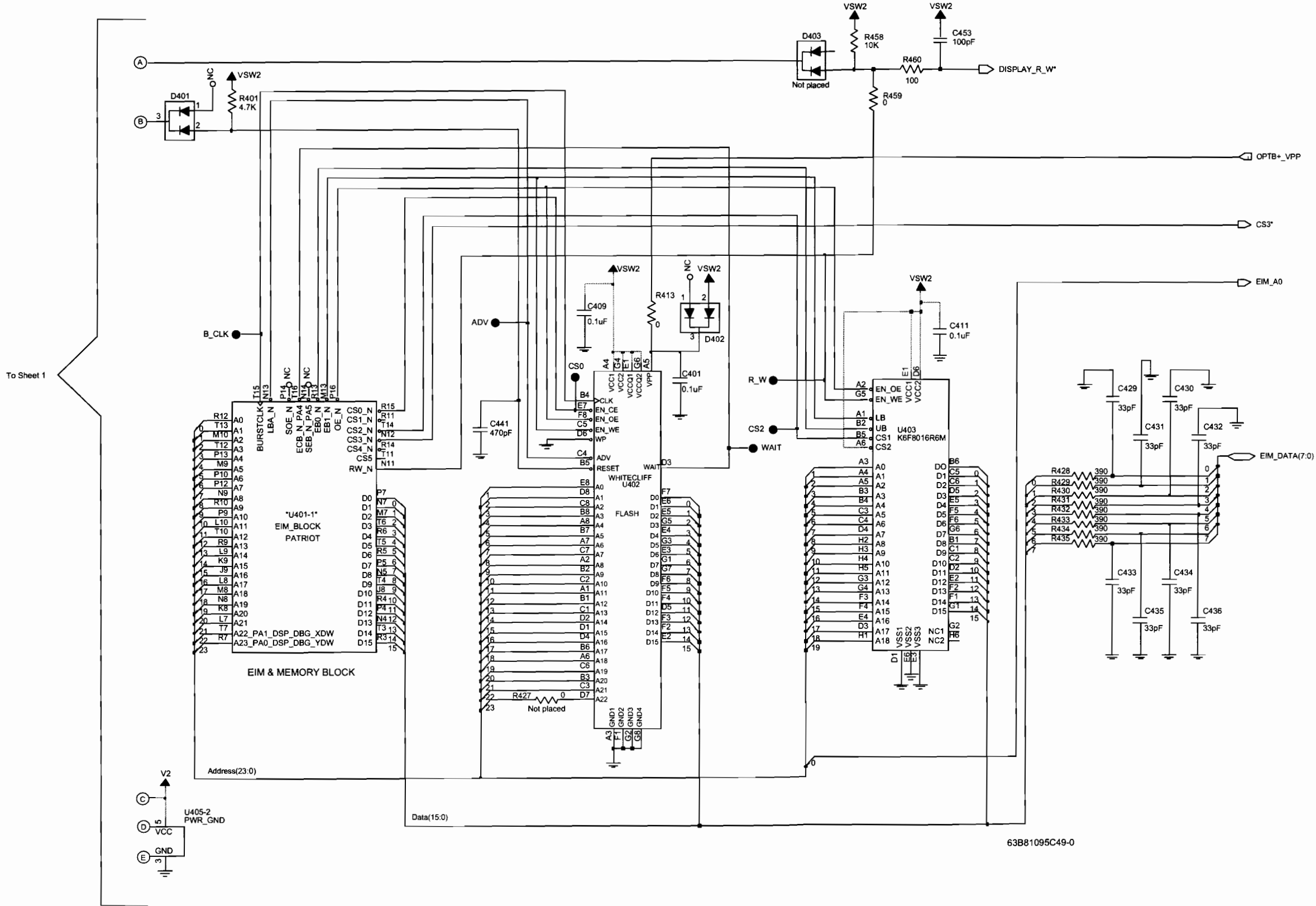


Figure 8-66. NTN9564B VOCON Controller and Memory Circuits—2 of 2

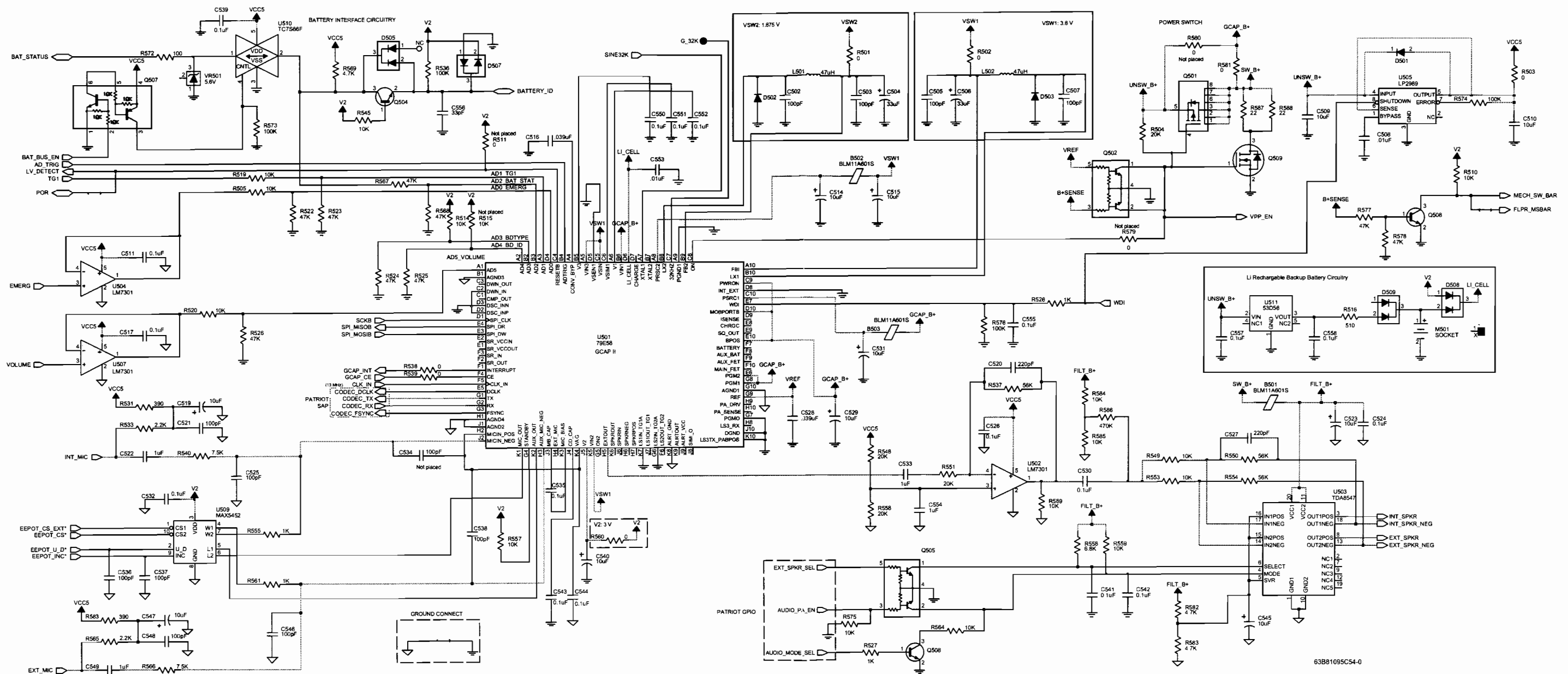


Figure 8-67. NTN9564B VOCON Audio and DC Circuits

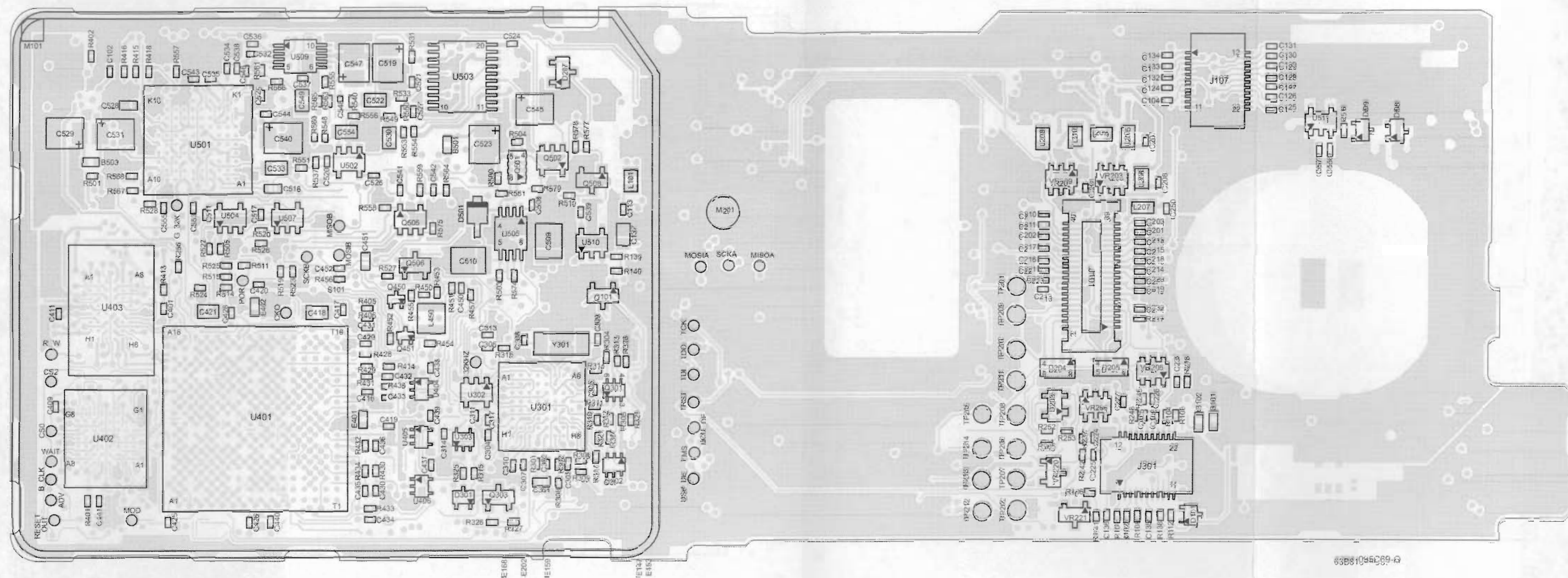
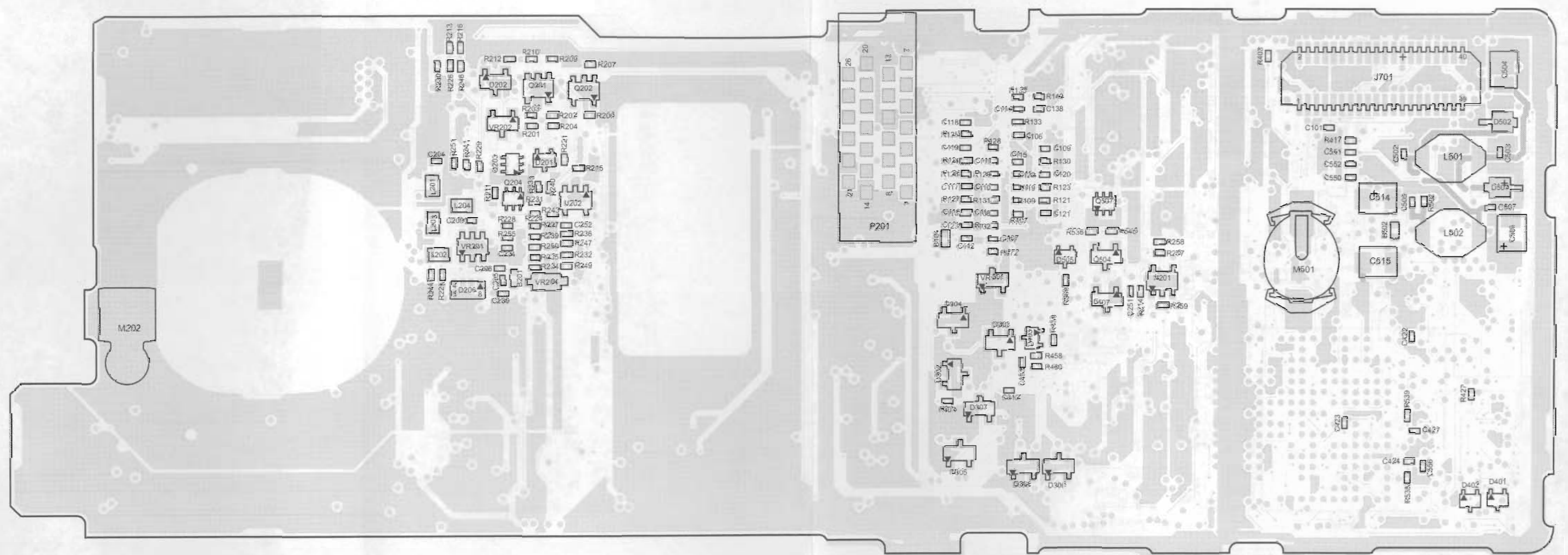


Figure 8-68. NTN9564B VOCON Board Layout—Side 1



63B81095C70-0

Figure 8-69. NTN9564B VOCON Board Layout—Side 2

NTN9564B VOCON Board Parts List

Ref. Des.	Part Number	Description
—	1105033S13	RIBBON LBL
—	5405569Y01	LBL BARCODE APC
—	5405569Y03	LABEL BARCODE
—	6003710K08	BATT COIN 3.3V LIION
32KHZ	NOTPLACED	NOT PLACED
ADV	NOTPLACED	NOT PLACED
B_CLK	NOTPLACED	NOT PLACED
B101	2480574F01	IND FERRITE CHIP 60OHM 0603
B102	2480574F01	IND FERRITE CHIP 60OHM 0603
B104	2462586G33	INDUCTOR CHIP FERRITE BEADS
B201	2480574F01	IND FERRITE CHIP 60OHM 0603
B501	2480574F01	IND FERRITE CHIP 60OHM 0603
B502	2480574F01	IND FERRITE CHIP 60OHM 0603
B503	2480574F01	IND FERRITE CHIP 60OHM 0603
C101	2113743L09	CAP CHIP 470 PF 10% X7R
C102	2113743L09	CAP CHIP 470 PF 10% X7R
C103	2113743L09	CAP CHIP 470 PF 10% X7R
C104	2113743L09	CAP CHIP 470 PF 10% X7R
C105	2113743L09	CAP CHIP 470 PF 10% X7R
C106	2113743L09	CAP CHIP 470 PF 10% X7R
C107	2113743L09	CAP CHIP 470 PF 10% X7R
C108	2113743L09	CAP CHIP 470 PF 10% X7R
C109	2113743N38	CAP CHIP 33.0 PF 5% COG
C110	2113743N38	CAP CHIP 33.0 PF 5% COG
C111	2113743N38	CAP CHIP 33.0 PF 5% COG
C112	2113743N50	CAP CHIP 100 PF 5% COG
C113	2113743L09	CAP CHIP 470 PF 10% X7R
C114	2113743L09	CAP CHIP 470 PF 10% X7R
C115	2113743L09	CAP CHIP 470 PF 10% X7R
C116	2113743N38	CAP CHIP 33.0 PF 5% COG
C117	2113743L09	CAP CHIP 470 PF 10% X7R
C118	2113743N38	CAP CHIP 33.0 PF 5% COG
C119	2113743N38	CAP CHIP 33.0 PF 5% COG

Ref. Des.	Part Number	Description
C120	2113743N38	CAP CHIP 33.0 PF 5% COG
C121	2113743N38	CAP CHIP 33.0 PF 5% COG
C122	2113743N38	CAP CHIP 33.0 PF 5% COG
C123	2113743L09	CAP CHIP 470 PF 10% X7R
C124	2113743L09	CAP CHIP 470 PF 10% X7R
C125	2113743L09	CAP CHIP 470 PF 10% X7R
C126	2113743L09	CAP CHIP 470 PF 10% X7R
C127	2113743L09	CAP CHIP 470 PF 10% X7R
C128	2113743L09	CAP CHIP 470 PF 10% X7R
C129	2113743L09	CAP CHIP 470 PF 10% X7R
C130	2113743L09	CAP CHIP 470 PF 10% X7R
C131	2113743L09	CAP CHIP 470 PF 10% X7R
C132	2113743L09	CAP CHIP 470 PF 10% X7R
C133	2113743L09	CAP CHIP 470 PF 10% X7R
C134	2113743L09	CAP CHIP 470 PF 10% X7R
C135	2113743L41	CAP CHIP 10000 PF 10% X7R
C136	2113743L09	CAP CHIP 470 PF 10% X7R
C137	2113743A31	CAP CHIP 1.0UF 10% X7R
C138	NOTPLACED	NOT PLACED
C201	2113743L09	CAP CHIP 470 PF 10% X7R
C202	2113743L09	CAP CHIP 470 PF 10% X7R
C203	2113743L09	CAP CHIP 470 PF 10% X7R
C204	2113743L09	CAP CHIP 470 PF 10% X7R
C205	2113743L41	CAP CHIP 10000 PF 10% X7R
C206	2113743L41	CAP CHIP 10000 PF 10% X7R
C207	2113743L09	CAP CHIP 470 PF 10% X7R
C208	2113743L09	CAP CHIP 470 PF 10% X7R
C209	2113743L41	CAP CHIP 10000 PF 10% X7R
C210	2113743L09	CAP CHIP 470 PF 10% X7R
C211	2113743L09	CAP CHIP 470 PF 10% X7R
C212	2113743L09	CAP CHIP 470 PF 10% X7R
C213	2113743L09	CAP CHIP 470 PF 10% X7R
C214	2113743L09	CAP CHIP 470 PF 10% X7R
C215	2113743L09	CAP CHIP 470 PF 10% X7R
C216	2113743L09	CAP CHIP 470 PF 10% X7R
C217	2113743L09	CAP CHIP 470 PF 10% X7R

Ref. Des.	Part Number	Description
C218	2113743L09	CAP CHIP 470 PF 10% X7R
C219	2113743L09	CAP CHIP 470 PF 10% X7R
C220	2113743L09	CAP CHIP 470 PF 10% X7R
C221	2113743L09	CAP CHIP 470 PF 10% X7R
C223	2113743L09	CAP CHIP 470 PF 10% X7R
C224	2113743N38	CAP CHIP 33.0 PF 5% COG
C225	2113743L09	CAP CHIP 470 PF 10% X7R
C226	2113743L09	CAP CHIP 470 PF 10% X7R
C227	2113743L09	CAP CHIP 470 PF 10% X7R
C230	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C231	2113743L09	CAP CHIP 470 PF 10% X7R
C232	2113743L09	CAP CHIP 470 PF 10% X7R
C233	2113743N50	CAP CHIP 100 PF 5% COG
C234	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C250	2113743L41	CAP CHIP 10000 PF 10% X7R
C251	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C252	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C301	2113932E20	CAP CER CHP .10 UF 10% 16V
C302	2113743L41	CAP CHIP 10000 PF 10% X7R
C303	2113743N38	CAP CHIP 33.0 PF 5% COG
C304	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C305	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C306	2113743N50	CAP CHIP 100 PF 5% COG
C307	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C308	2113743N20	CAP CHIP 5.6PF +/-5PF COG
C309	2113743N20	CAP CHIP 5.6PF +/-5PF COG
C310	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C311	2113743M24	CAP CHIP 100000 PF +80-20% Y5V

Ref. Des.	Part Number	Description
C312	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C313	2113743N28	CAP CHIP 12.0 PF 5% COG
C314	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C317	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C401	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C409	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C411	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C416	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C417	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C418	2113743A31	CAP CHIP 1.0UF 10% X7R
C419	2113743N50	CAP CHIP 100 PF 5% COG
C420	2113743N50	CAP CHIP 100 PF 5% COG
C421	2113743A31	CAP CHIP 1.0UF 10% X7R
C422	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C423	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C424	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C425	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C426	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C427	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C428	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C429	2113743N38	CAP CHIP 33.0 PF 5% COG
C430	2113743N38	CAP CHIP 33.0 PF 5% COG
C431	2113743N38	CAP CHIP 33.0 PF 5% COG
C432	2113743N38	CAP CHIP 33.0 PF 5% COG
C433	2113743N38	CAP CHIP 33.0 PF 5% COG
C434	2113743N38	CAP CHIP 33.0 PF 5% COG
C435	2113743N38	CAP CHIP 33.0 PF 5% COG
C436	2113743N38	CAP CHIP 33.0 PF 5% COG

Ref. Des.	Part Number	Description
C437	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C438	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C439	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C440	2113743N50	CAP CHIP 100 PF 5% COG
C441	2113743L09	CAP CHIP 470 PF 10% X7R
C450	2113743N28	CAP CHIP 12.0 PF 5% COG
C451	2113932E20	CAP CER CHP .10 UF 10% 16V
C452	2113743L17	CAP CHIP 1000 PF 10% X7R
C453	2113743N50	CAP CHIP 100 PF 5% COG
C502	2113743N50	CAP CHIP 100 PF 5% COG
C503	2113743N50	CAP CHIP 100 PF 5% COG
C504	2311049C52	CAP TANT CHIP 33UF 10% 10V
C505	2113743N50	CAP CHIP 100 PF 5% COG
C506	2311049C52	CAP TANT CHIP 33UF 10% 10V
C507	2113743N50	CAP CHIP 100 PF 5% COG
C508	2113743L41	CAP CHIP 10000 PF 10% X7R
C509	2113743T19	CAP 10UF 16V CER 3225 X5R
C510	2113743T19	CAP 10UF 16V CER 3225 X5R
C511	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C514	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C515	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C516	2113743E11	CAP CHIP .039 UF 10% X7R
C517	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C519	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C520	2113743L01	CAP CHIP 220 PF 10% X7R
C521	2113743N50	CAP CHIP 100 PF 5% COG
C522	2113743A31	CAP CHIP 1.0UF 10% X7R

Ref. Des.	Part Number	Description
C523	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C524	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C525	2113743N50	CAP CHIP 100 PF 5% COG
C526	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C527	2113743L01	CAP CHIP 220 PF 10% X7R
C528	2113743E11	CAP CHIP .039 UF 10% X7R
C529	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C530	2113743A19	CAP CHIP .100 UF 10% X7R
C531	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C532	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C533	2113743A31	CAP CHIP 1.0UF 10% X7R
C534	NOTPLACED	NOT PLACED
C535	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C536	2113743N50	CAP CHIP 100 PF 5% COG
C537	2113743N50	CAP CHIP 100 PF 5% COG
C538	2113743N50	CAP CHIP 100 PF 5% COG
C539	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C540	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C541	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C542	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C543	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C544	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C545	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C546	2113743N50	CAP CHIP 100 PF 5% COG
C547	2311049A57	CAP TANT CHIP A/P 10UF 10% 16V
C548	2113743N50	CAP CHIP 100 PF 5% COG
C549	2113743A31	CAP CHIP 1.0UF 10% X7R

Ref. Des.	Part Number	Description
C550	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C551	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C552	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C553	2113743L41	CAP CHIP 10000 PF 10% X7R
C554	2113743A31	CAP CHIP 1.0UF 10% X7R
C555	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C556	2113743N38	CAP CHIP 33.0 PF 5% COG
C557	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C558	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
CKO	NOTPLACED	NOT PLACED
CS0	NOTPLACED	NOT PLACED
CS2	NOTPLACED	NOT PLACED
D101	4805218N57	DIODE DUAL
D201	NOTPLACED	NOT PLACED
D202	4805129M90	DIODE SOT PKGD
D203	4802021P15	ZENER SR05
D204	4805656W39	QUAD ESD SUPPRESSOR ARRAY -41206ESDA
D205	4805656W39	QUAD ESD SUPPRESSOR ARRAY -41206ESDA
D206	4805656W39	QUAD ESD SUPPRESSOR ARRAY -41206ESDA
D207	4805129M90	DIODE SOT PKGD
D301	4805218N57	DIODE DUAL
D302	4805129M06	DIODE MMBD7000
D303	4805129M06	DIODE MMBD7000
D304	4805129M06	DIODE MMBD7000
D305	4805129M06	DIODE MMBD7000
D306	4805129M06	DIODE MMBD7000
D307	4805129M06	DIODE MMBD7000
D308	4805129M06	DIODE MMBD7000
D401	4805218N57	DIODE DUAL
D402	4805218N57	DIODE DUAL
D403	NOTPLACED	NOT PLACED

Ref. Des.	Part Number	Description
D501	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D502	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D503	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D505	4805218N57	DIODE DUAL
D507	4805129M06	DIODE MMBD7000
D508	4805218N57	DIODE DUAL
D509	4805218N57	DIODE DUAL
DSP_DE	NOTPLACED	NOT PLACED
E147	NOTPLACED	NOT PLACED
E148	NOTPLACED	NOT PLACED
E149	NOTPLACED	NOT PLACED
E150	NOTPLACED	NOT PLACED
E151	NOTPLACED	NOT PLACED
E152	NOTPLACED	NOT PLACED
E153	NOTPLACED	NOT PLACED
E154	NOTPLACED	NOT PLACED
E155	NOTPLACED	NOT PLACED
E156	NOTPLACED	NOT PLACED
E157	NOTPLACED	NOT PLACED
E159	NOTPLACED	NOT PLACED
E163	NOTPLACED	NOT PLACED
E164	NOTPLACED	NOT PLACED
E165	NOTPLACED	NOT PLACED
E166	NOTPLACED	NOT PLACED
E167	NOTPLACED	NOT PLACED
E168	NOTPLACED	NOT PLACED
E169	NOTPLACED	NOT PLACED
E170	NOTPLACED	NOT PLACED
E171	NOTPLACED	NOT PLACED
E172	NOTPLACED	NOT PLACED
E201	NOTPLACED	NOT PLACED
E202	NOTPLACED	NOT PLACED
E206	NOTPLACED	NOT PLACED
E207	NOTPLACED	NOT PLACED
E208	NOTPLACED	NOT PLACED
E209	NOTPLACED	NOT PLACED
E210	NOTPLACED	NOT PLACED

Ref. Des.	Part Number	Description
E211	NOTPLACED	NOT PLACED
E212	NOTPLACED	NOT PLACED
E213	NOTPLACED	NOT PLACED
E214	NOTPLACED	NOT PLACED
E215	NOTPLACED	NOT PLACED
E401	2480574F01	IND FERRITE CHIP 60OHM 0603
E402	2480574F01	IND FERRITE CHIP 60OHM 0603
G_32K	NOTPLACED	NOT PLACED
J101	0985185D01	CONN RECEP 0.5MM PITCH 40 CKTS
J107	0987817K01	RECP BTB 0.5P 1.5 STACK SMD
J301	0987817K01	RECP BTB 0.5P 1.5 STACK SMD
J701	0980423L02	40PIN ROBIN CONN 3MM
L101	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L201	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L202	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L203	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L204	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L205	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L206	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L207	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L208	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L209	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L210	2404574Z14	IND CHIP WW 270NH 2% 2012 SMD
L450	2462587N68	CHIP IND 1000 NH 5%
L501	2486085A06	COIL 47UH SMT POWER INDUCTOR
L502	2486085A06	COIL 47UH SMT POWER INDUCTOR

Ref. Des.	Part Number	Description
M101	NOTPLACED	NOT PLACED
M201	NOTPLACED	NOT PLACED
M202	3985951A01	CONTACT ANTENNA GROUND
M501	0985888K02	SKT RTC BTY LEAP
MCU_DE	NOTPLACED	NOT PLACED
MISOA	NOTPLACED	NOT PLACED
MISOB	NOTPLACED	NOT PLACED
MOD	NOTPLACED	NOT PLACED
MOSIA	NOTPLACED	NOT PLACED
MOSIB	NOTPLACED	NOT PLACED
P201	NOTPLACED	NOT PLACED
PCB	8485140D01	BD VOCON XTS5000
POR	NOTPLACED	NOT PLACED
Q101	4813824A10	TSTR NPN 40V .2A GEN PURP
Q201	4805921T09	XSTR DUAL ROHM FMG8
Q202	4805921T09	XSTR DUAL ROHM FMG8
Q204	4805723X03	TRANS DUAL NPN-PNP UMD3N ROHM
Q301	4809579E35	TSTR FET DUAL N-CHAN FDG3601N
Q302	4805723X03	TRANS DUAL NPN-PNP UMD3N ROHM
Q303	4813824A10	TSTR NPN 40V .2A GEN PURP
Q450	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q451	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q501	4885844C01	XSTR FET
Q502	4805921T09	XSTR DUAL ROHM FMG8
Q504	4813824A10	TSTR NPN 40V .2A GEN PURP
Q505	4805921T09	XSTR DUAL ROHM FMG8
Q506	4813824A10	TSTR NPN 40V .2A GEN PURP
Q507	4805723X03	TRANS DUAL NPN-PNP UMD3N ROHM
Q508	4813824A10	TSTR NPN 40V .2A GEN PURP
Q509	4805218N11	XISTOR SOT RH BST82

Ref. Des.	Part Number	Description
R_W	NOTPLACED	NOT PLACED
R101	0662057M56	RES. CHIP 180 5% 20X40
R102	0662057M56	RES. CHIP 180 5% 20X40
R103	0662057M56	RES. CHIP 180 5% 20X40
R104	0662057M56	RES. CHIP 180 5% 20X40
R106	0662057M50	RES. CHIP 100 5% 20X40
R107	0662057M98	RES. CHIP 10K 5% 20X40
R108	0662057M01	RES. CHIP 0 5% 20X40
R109	NOTPLACED	NOT PLACED
R112	0662057N15	RES. CHIP 47K 5% 20X40
R119	0662057M50	RES. CHIP 100 5% 20X40
R121	0662057M74	RES. CHIP 1000 5% 20X40
R123	0662057M74	RES. CHIP 1000 5% 20X40
R124	0662057M74	RES. CHIP 1000 5% 20X40
R125	0662057M50	RES. CHIP 100 5% 20X40
R126	0662057M50	RES. CHIP 100 5% 20X40
R127	0662057M74	RES. CHIP 1000 5% 20X40
R128	0662057M74	RES. CHIP 1000 5% 20X40
R129	0662057M74	RES. CHIP 1000 5% 20X40
R130	0662057M74	RES. CHIP 1000 5% 20X40
R131	0662057M50	RES. CHIP 100 5% 20X40
R132	0662057M01	RES. CHIP 0 5% 20X40
R133	0662057M01	RES. CHIP 0 5% 20X40
R135	0662057M74	RES. CHIP 1000 5% 20X40
R138	0662057M98	RES. CHIP 10K 5% 20X40
R139	0662057M98	RES. CHIP 10K 5% 20X40
R140	0662057M90	RES. CHIP 4700 5% 20X40
R141	0662057M74	RES. CHIP 1000 5% 20X40
R142	0662057M98	RES. CHIP 10K 5% 20X40
R201	NOTPLACED	NOT PLACED
R202	NOTPLACED	NOT PLACED
R203	0662057M61	RES. CHIP 300 5% 20X40
R204	0662057M60	RES. CHIP 270 5% 20X40
R205	0662057M98	RES. CHIP 10K 5% 20X40
R206	0662057M37	20X40 30 OMH 5% CHIP RESISTOR
R207	0662057M98	RES. CHIP 10K 5% 20X40
R209	0662057M98	RES. CHIP 10K 5% 20X40
R210	0662057M98	RES. CHIP 10K 5% 20X40

Ref. Des.	Part Number	Description
R211	0662057N23	RES. CHIP 100K 5% 20X40
R212	0662057M46	RES. CHIP 68 5% 20X40
R213	0662057N15	RES. CHIP 47K 5% 20X40
R214	0662057M98	RES. CHIP 10K 5% 20X40
R215	0662057M98	RES. CHIP 10K 5% 20X40
R216	0662057M90	RES. CHIP 4700 5% 20X40
R217	0662057M64	RES. CHIP 390 5% 20X40
R218	0662057M64	RES. CHIP 390 5% 20X40
R221	0662057M01	RES. CHIP 0 5% 20X40
R224	0662057N17	RES. CHIP 56K 5% 20X40
R225	0662057M98	RES. CHIP 10K 5% 20X40
R226	0662057M98	RES. CHIP 10K 5% 20X40
R227	0662057M98	RES. CHIP 10K 5% 20X40
R228	0662057M98	RES. CHIP 10K 5% 20X40
R229	0662057M98	RES. CHIP 10K 5% 20X40
R230	0662057N23	RES. CHIP 100K 5% 20X40
R231	0662057M74	RES. CHIP 1000 5% 20X40
R232	0662057M74	RES. CHIP 1000 5% 20X40
R233	0662057M74	RES. CHIP 1000 5% 20X40
R234	0662057M74	RES. CHIP 1000 5% 20X40
R235	0662057M74	RES. CHIP 1000 5% 20X40
R236	0662057M74	RES. CHIP 1000 5% 20X40
R237	0662057M56	RES. CHIP 180 5% 20X40
R239	0662057M74	RES. CHIP 1000 5% 20X40
R240	0662057M98	RES. CHIP 10K 5% 20X40
R241	0662057M74	RES. CHIP 1000 5% 20X40
R242	0662057M64	RES. CHIP 390 5% 20X40
R243	0662057N06	RES. CHIP 20K 5% 20X40
R244	0662057M74	RES. CHIP 1000 5% 20X40
R245	0662057M74	RES. CHIP 1000 5% 20X40
R246	NOTPLACED	NOT PLACED
R247	NOTPLACED	NOT PLACED
R248	0662057M74	RES. CHIP 1000 5% 20X40
R249	0662057N39	RES. CHIP 470K 5% 20X40
R250	NOTPLACED	NOT PLACED
R251	NOTPLACED	NOT PLACED
R252	0662057M34	RES. CHIP 22 5% 20X40
R253	0662057M34	RES. CHIP 22 5% 20X40
R255	0662057M50	RES. CHIP 100 5% 20X40

Ref. Des.	Part Number	Description
R256	0662057M50	RES. CHIP 100 5% 20X40
R257	0662057N06	RES. CHIP 20K 5% 20X40
R258	0662057N06	RES. CHIP 20K 5% 20X40
R259	NOTPLACED	NOT PLACED
R301	0662057M67	RES. CHIP 510 5% 20X40
R302	0662057M74	RES. CHIP 1000 5% 20X40
R303	0662057M98	RES. CHIP 10K 5% 20X40
R304	0662057N39	RES. CHIP 470K 5% 20X40
R305	0662057N39	RES. CHIP 470K 5% 20X40
R306	0662057M01	RES. CHIP 0 5% 20X40
R307	0662057N23	RES. CHIP 100K 5% 20X40
R308	0662057M01	RES. CHIP 0 5% 20X40
R309	0662057M98	RES. CHIP 10K 5% 20X40
R310	0662057M78	RES. CHIP 1500 5% 20X40
R311	0662057M01	RES. CHIP 0 5% 20X40
R312	0662057N47	RES. CHIP 1.0 MEG 5% 20X40
R313	0662057N47	RES. CHIP 1.0 MEG 5% 20X40
R314	0662057M01	RES. CHIP 0 5% 20X40
R315	0662057M01	RES. CHIP 0 5% 20X40
R316	0662057M01	RES. CHIP 0 5% 20X40
R317	0662057M01	RES. CHIP 0 5% 20X40
R321	0662057N23	RES. CHIP 100K 5% 20X40
R325	0662057M98	RES. CHIP 10K 5% 20X40
R326	0662057M98	RES. CHIP 10K 5% 20X40
R327	0662057N23	RES. CHIP 100K 5% 20X40
R328	0662057M01	RES. CHIP 0 5% 20X40
R329	0662057M01	RES. CHIP 0 5% 20X40
R401	0662057M90	RES. CHIP 4700 5% 20X40
R402	0662057M01	RES. CHIP 0 5% 20X40
R403	0662057M01	RES. CHIP 0 5% 20X40
R405	0662057M01	RES. CHIP 0 5% 20X40
R406	0662057M01	RES. CHIP 0 5% 20X40
R413	0662057M01	RES. CHIP 0 5% 20X40
R414	0662057M98	RES. CHIP 10K 5% 20X40
R415	0662057M01	RES. CHIP 0 5% 20X40
R416	0662057M01	RES. CHIP 0 5% 20X40
R417	0662057M01	RES. CHIP 0 5% 20X40

Ref. Des.	Part Number	Description
R418	0662057M01	RES. CHIP 0 5% 20X40
R427	NOTPLACED	NOT PLACED
R428	0662057M64	RES. CHIP 390 5% 20X40
R429	0662057M64	RES. CHIP 390 5% 20X40
R430	0662057M64	RES. CHIP 390 5% 20X40
R431	0662057M64	RES. CHIP 390 5% 20X40
R432	0662057M64	RES. CHIP 390 5% 20X40
R433	0662057M64	RES. CHIP 390 5% 20X40
R434	0662057M64	RES. CHIP 390 5% 20X40
R435	0662057M64	RES. CHIP 390 5% 20X40
R450	0662057N15	RES. CHIP 47K 5% 20X40
R451	0662057M78	RES. CHIP 1500 5% 20X40
R452	0662057M42	RES. CHIP 47 5% 20X40
R453	0662057N11	RES. CHIP 33K 5% 20X40
R454	0662057M64	RES. CHIP 390 5% 20X40
R455	0662057M74	RES. CHIP 1000 5% 20X40
R456	NOTPLACED	NOT PLACED
R457	NOTPLACED	NOT PLACED
R458	0662057M98	RES. CHIP 10K 5% 20X40
R459	0662057M01	RES. CHIP 0 5% 20X40
R460	0662057M50	RES. CHIP 100 5% 20X40
R501	0662057M01	RES. CHIP 0 5% 20X40
R502	0662057M01	RES. CHIP 0 5% 20X40
R503	0662057M01	RES. CHIP 0 5% 20X40
R504	0662057N06	RES. CHIP 20K 5% 20X40
R505	0662057M98	RES. CHIP 10K 5% 20X40
R510	0662057M98	RES. CHIP 10K 5% 20X40
R511	NOTPLACED	NOT PLACED
R514	0662057M98	RES. CHIP 10K 5% 20X40
R515	NOTPLACED	NOT PLACED
R516	0662057M67	RES. CHIP 510 5% 20X40
R519	0662057M98	RES. CHIP 10K 5% 20X40
R520	0662057M98	RES. CHIP 10K 5% 20X40
R522	0662057N15	RES. CHIP 47K 5% 20X40
R523	0662057N15	RES. CHIP 47K 5% 20X40
R524	0662057N15	RES. CHIP 47K 5% 20X40
R525	0662057N15	RES. CHIP 47K 5% 20X40
R526	0662057N15	RES. CHIP 47K 5% 20X40
R527	0662057M74	RES. CHIP 1000 5% 20X40

Ref. Des.	Part Number	Description
R528	0662057M74	RES. CHIP 1000 5% 20X40
R531	0662057M64	RES. CHIP 390 5% 20X40
R533	0662057M82	RES. CHIP 2200 5% 20X40
R536	0662057N23	RES. CHIP 100K 5% 20X40
R537	0662057N17	RES. CHIP 56K 5% 20X40
R538	0662057M01	RES. CHIP 0 5% 20X40
R539	0662057M01	RES. CHIP 0 5% 20X40
R540	0662057M95	RES. CHIP 7500 5% 20X40
R545	0662057M98	RES. CHIP 10K 5% 20X40
R548	0662057N06	RES. CHIP 20K 5% 20X40
R549	0662057M98	RES. CHIP 10K 5% 20X40
R550	0662057N17	RES. CHIP 56K 5% 20X40
R551	0662057N06	RES. CHIP 20K 5% 20X40
R553	0662057M98	RES. CHIP 10K 5% 20X40
R554	0662057N17	RES. CHIP 56K 5% 20X40
R555	0662057M74	RES. CHIP 1000 5% 20X40
R556	0662057N06	RES. CHIP 20K 5% 20X40
R557	0662057M98	RES. CHIP 10K 5% 20X40
R558	0662057M94	RES. CHIP 6800 5% 20X40
R559	0662057M98	RES. CHIP 10K 5% 20X40
R560	0662057M01	RES. CHIP 0 5% 20X40
R561	0662057M74	RES. CHIP 1000 5% 20X40
R563	0662057M64	RES. CHIP 390 5% 20X40
R564	0662057M98	RES. CHIP 10K 5% 20X40
R565	0662057M82	RES. CHIP 2200 5% 20X40
R566	0662057M95	RES. CHIP 7500 5% 20X40
R567	0662057N15	RES. CHIP 47K 5% 20X40
R568	0662057N15	RES. CHIP 47K 5% 20X40
R569	0662057M90	RES. CHIP 4700 5% 20X40
R572	0662057M50	RES. CHIP 100 5% 20X40
R573	0662057N23	RES. CHIP 100K 5% 20X40
R574	0662057N23	RES. CHIP 100K 5% 20X40
R575	0662057M98	RES. CHIP 10K 5% 20X40
R576	0662057N23	RES. CHIP 100K 5% 20X40
R577	0662057N15	RES. CHIP 47K 5% 20X40
R578	0662057N15	RES. CHIP 47K 5% 20X40
R579	NOTPLACED	NOT PLACED
R580	NOTPLACED	NOT PLACED
R581	0662057M01	RES. CHIP 0 5% 20X40

Ref. Des.	Part Number	Description
R582	0662057M90	RES. CHIP 4700 5% 20X40
R583	0662057M90	RES. CHIP 4700 5% 20X40
R584	0662057M98	RES. CHIP 10K 5% 20X40
R585	0662057M98	RES. CHIP 10K 5% 20X40
R586	0662057N39	RES. CHIP 470K 5% 20X40
R587	0662057M34	RES. CHIP 22 5% 20X40
R588	0662057M34	RES. CHIP 22 5% 20X40
R589	0662057M98	RES. CHIP 10K 5% 20X40
RESET_OUT	NOTPLACED	NOT PLACED
S101	NOTPLACED	NOT PLACED
SCKA	NOTPLACED	NOT PLACED
SCKB	NOTPLACED	NOT PLACED
TCK	NOTPLACED	NOT PLACED
TDI	NOTPLACED	NOT PLACED
TDO	NOTPLACED	NOT PLACED
TMS	NOTPLACED	NOT PLACED
TP201	NOTPLACED	NOT PLACED
TP202	NOTPLACED	NOT PLACED
TP206	NOTPLACED	NOT PLACED
TP207	NOTPLACED	NOT PLACED
TP208	NOTPLACED	NOT PLACED
TP209	NOTPLACED	NOT PLACED
TP210	NOTPLACED	NOT PLACED
TP211	NOTPLACED	NOT PLACED
TP212	NOTPLACED	NOT PLACED
TP213	NOTPLACED	NOT PLACED
TP214	NOTPLACED	NOT PLACED
TP215	NOTPLACED	NOT PLACED
TRST	NOTPLACED	NOT PLACED
U201	5109731C15	IC OP AMP SNGL OPA237 SOT23
U202	5109731C15	IC OP AMP SNGL OPA237 SOT23
U301	5185353D57	IC FILLPER WITH IMPROVED ESD
U302	5105492X92	IC CMOS BILATERAL SWITCH
U303	5109522E53	IC SNGL BUF NC7S125P5X SC70

Ref. Des.	Part Number	Description
U401	5109841C69	IC 256 BGA 17X17 PACKAGE PATRIOT
U402	5199485A01	IC FLASH 8MBYTE BURST BGA
U403	5185368C82	"IC 1.65 TO 2.2V, 70NS, 8MBIT SRAM"
U404	5109522E53	IC SNGL BUF NC7S125P5X SC70
U405	5109522E53	IC SNGL BUF NC7S125P5X SC70
U406	5105492X03	IC SNG HI SPD L-MOS NOT GATE
U501	5109879E58	IC 4.3 GCAPII SN104616DGGMR BG
U502	5109731C15	IC OP AMP SNGL OPA237 SOT23
U503	5102463J44	IC AUDIO PA (PHILIPS_20PIN)
U504	5109731C15	IC OP AMP SNGL OPA237 SOT23
U505	5185353D13	IC MINI SO-8 HI PRECISION REG 5V
U507	5109731C15	IC OP AMP SNGL OPA237 SOT23
U509	5185353D35	IC DUAL EEPOT 256 TAP
U510	5105492X92	IC CMOS BILATERAL SWITCH
U511	5185353D56	IC 3.3V LINEAR REGULATOR MC78LC 33NTR
VR201	4813832C72	TRANS SUP QUAD 12V
VR202	4813830A22	DIODE 9.1V 5% 225MW MMBZ5239B_
VR203	4813832C72	TRANS SUP QUAD 12V
VR204	4813830C26	DIODE 13V 'H3' MMSZ5243BT1
VR205	4805656W08	DIODE ZENER QUAD
VR206	4805656W08	DIODE ZENER QUAD
VR209	4813832C72	TRANS SUP QUAD 12V
VR220	4805656W03	DIODE DUAL 5.6V ZENER
VR221	4805656W03	DIODE DUAL 5.6V ZENER
VR501	4813830A15	DIODE 5.6V 5% 225MW MMBZ5232B_
W203	4805723X03	TRANS DUAL NPN-PNP UMD3N ROHM

Ref. Des.	Part Number	Description
WAIT	NOTPLACED	NOT PLACED
Y301	4809995L05	XTAL QUARTZ 32.768 kHz CC4V-T1

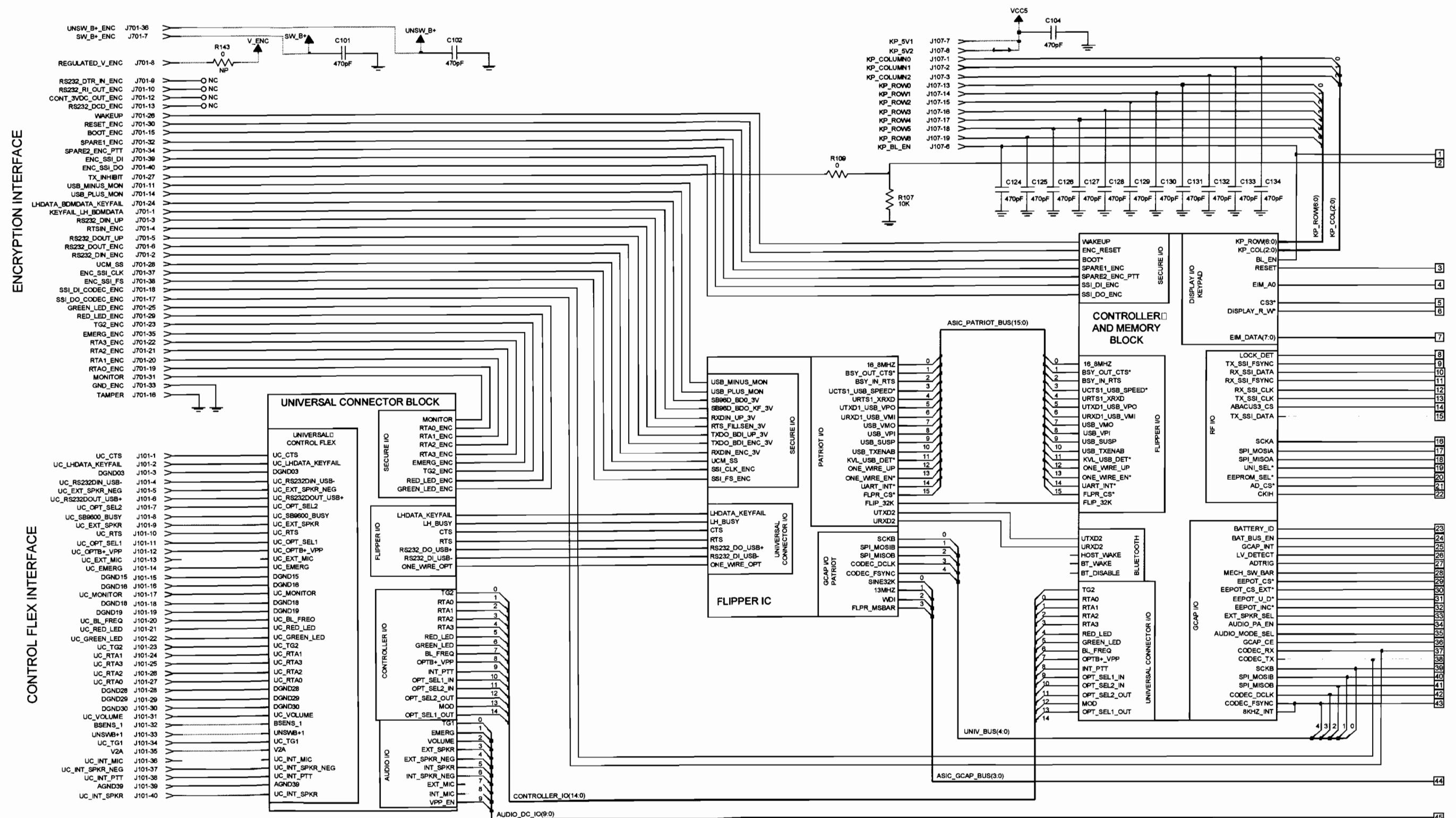
63B81096C47-O
SHEET 1

Figure 8-70. NTN9564C VOCON Board Overall Schematic—1 of 2

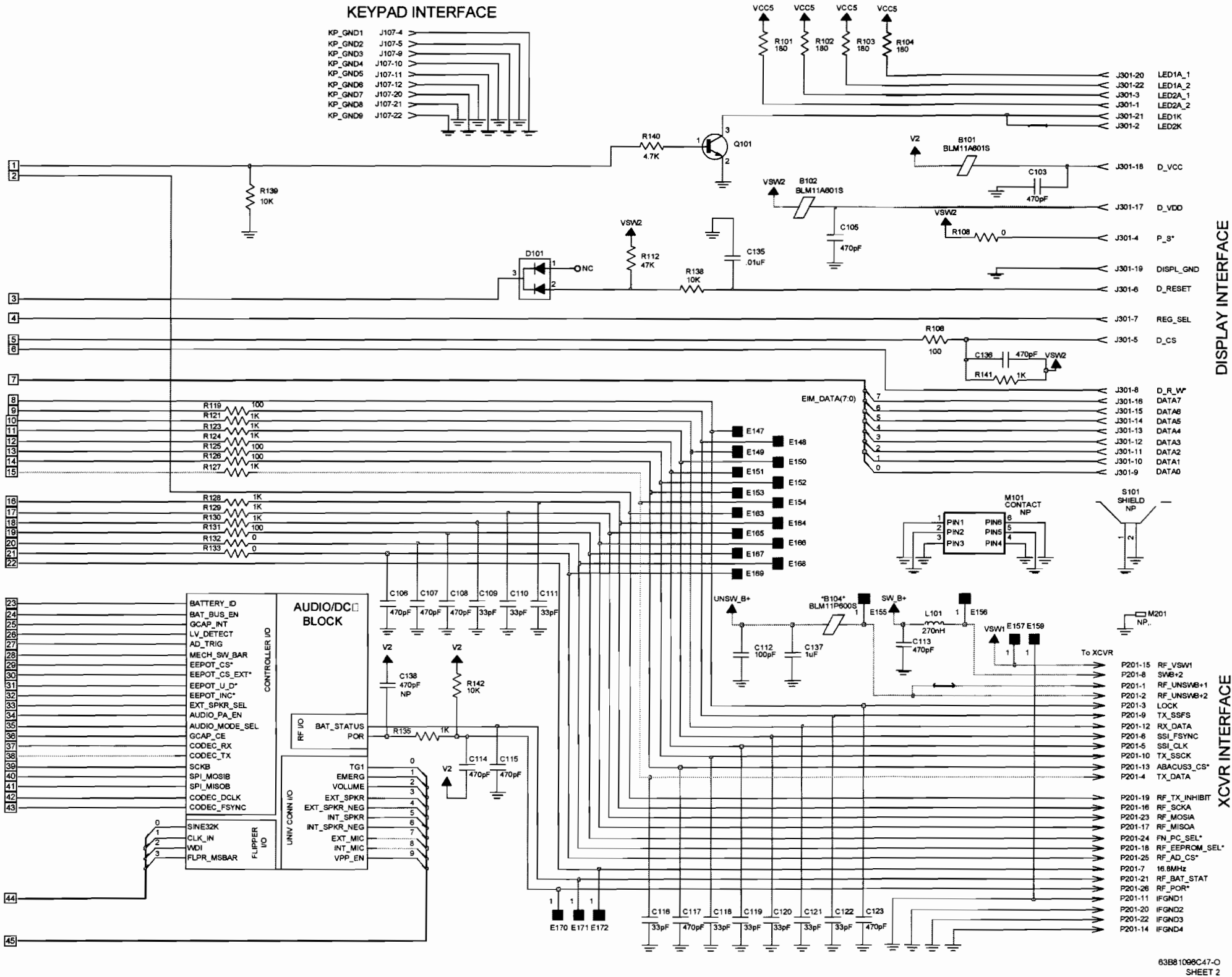
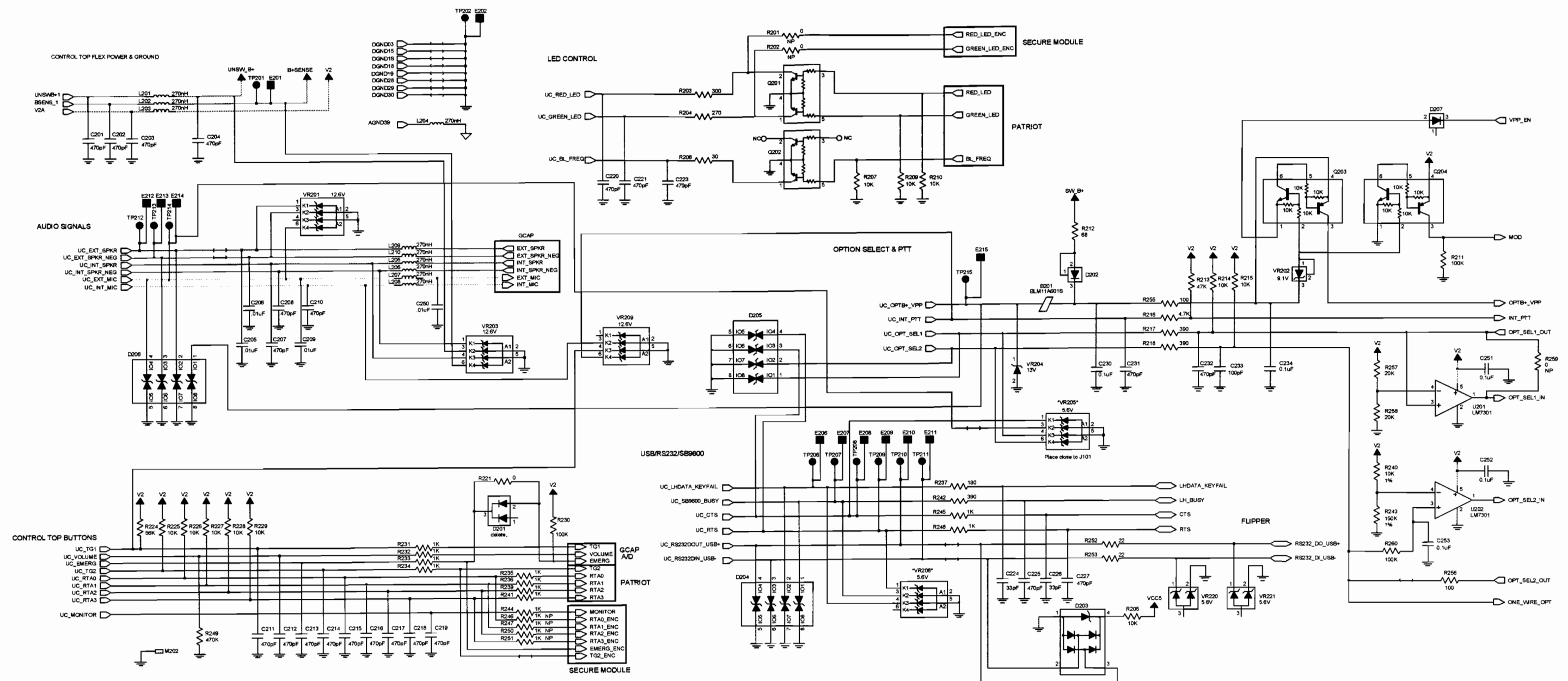
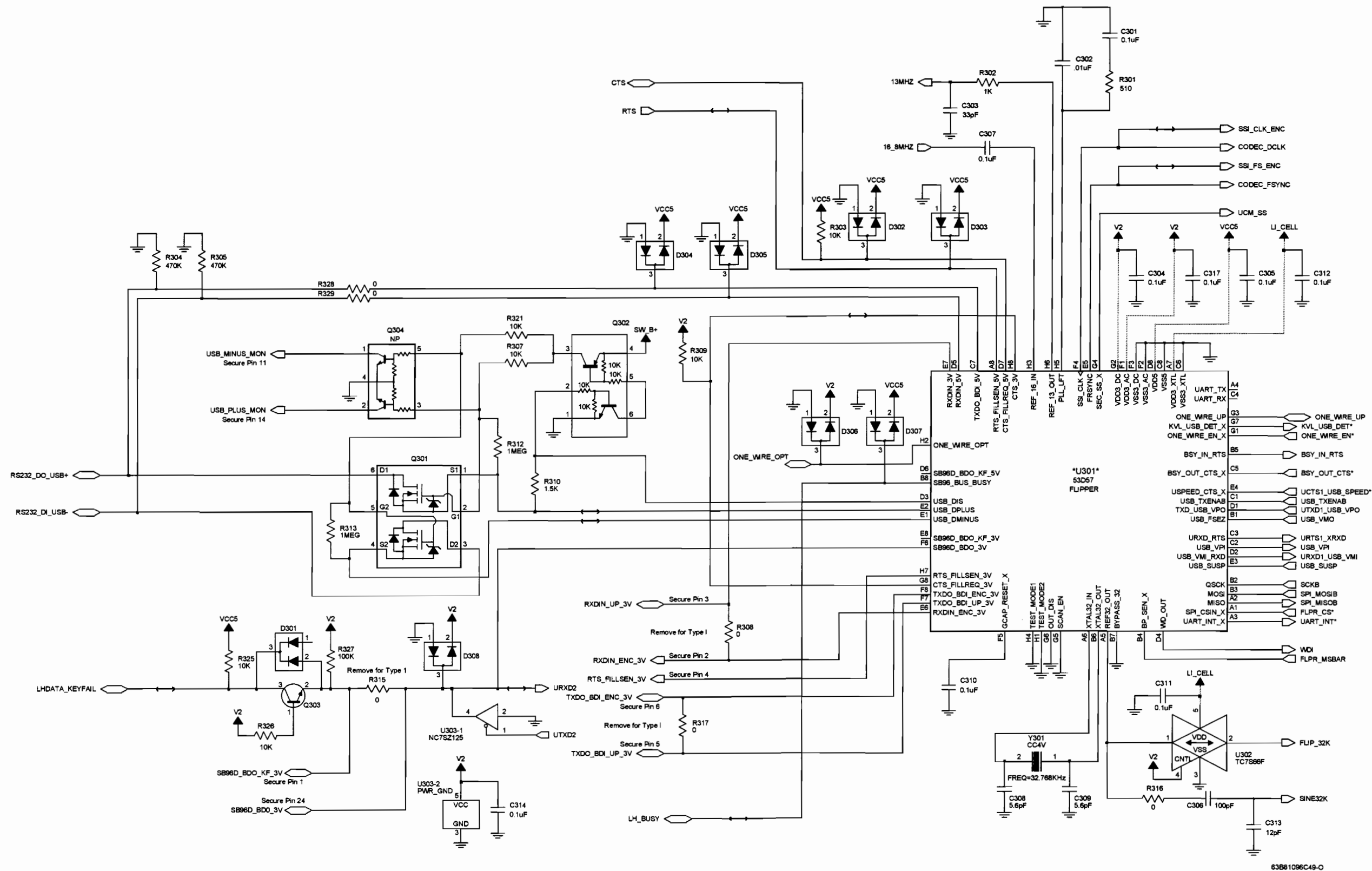


Figure 8-71. NTN9564C VOCON Board Overall Schematic—2 of 2



63B81096C50-0

Figure 8-72. NTN9564C VOCON Universal Connector Circuit



6881094C31-D

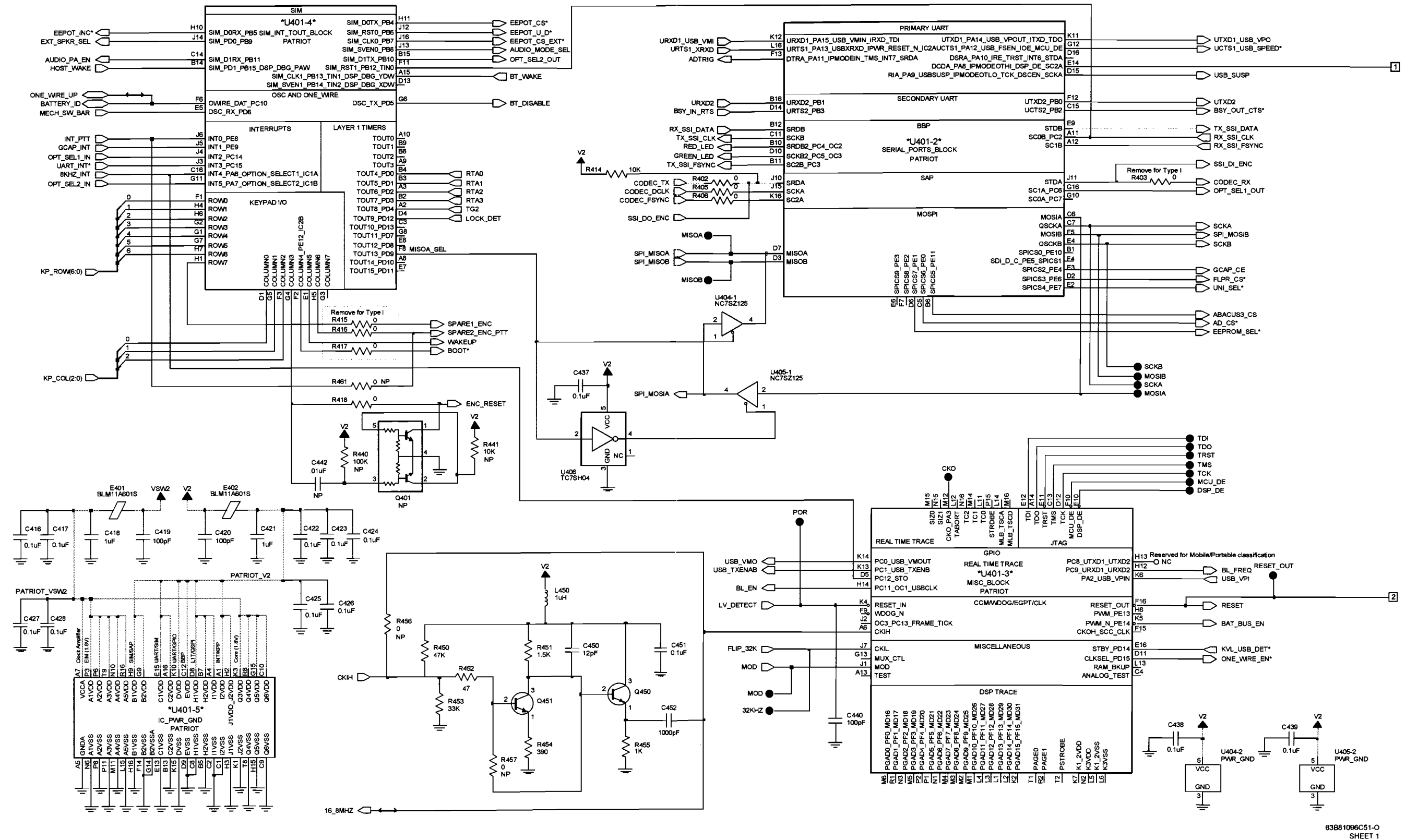


Figure 8-74. NTN9564C VOCON Controller and Memory Circuits—1 of 2

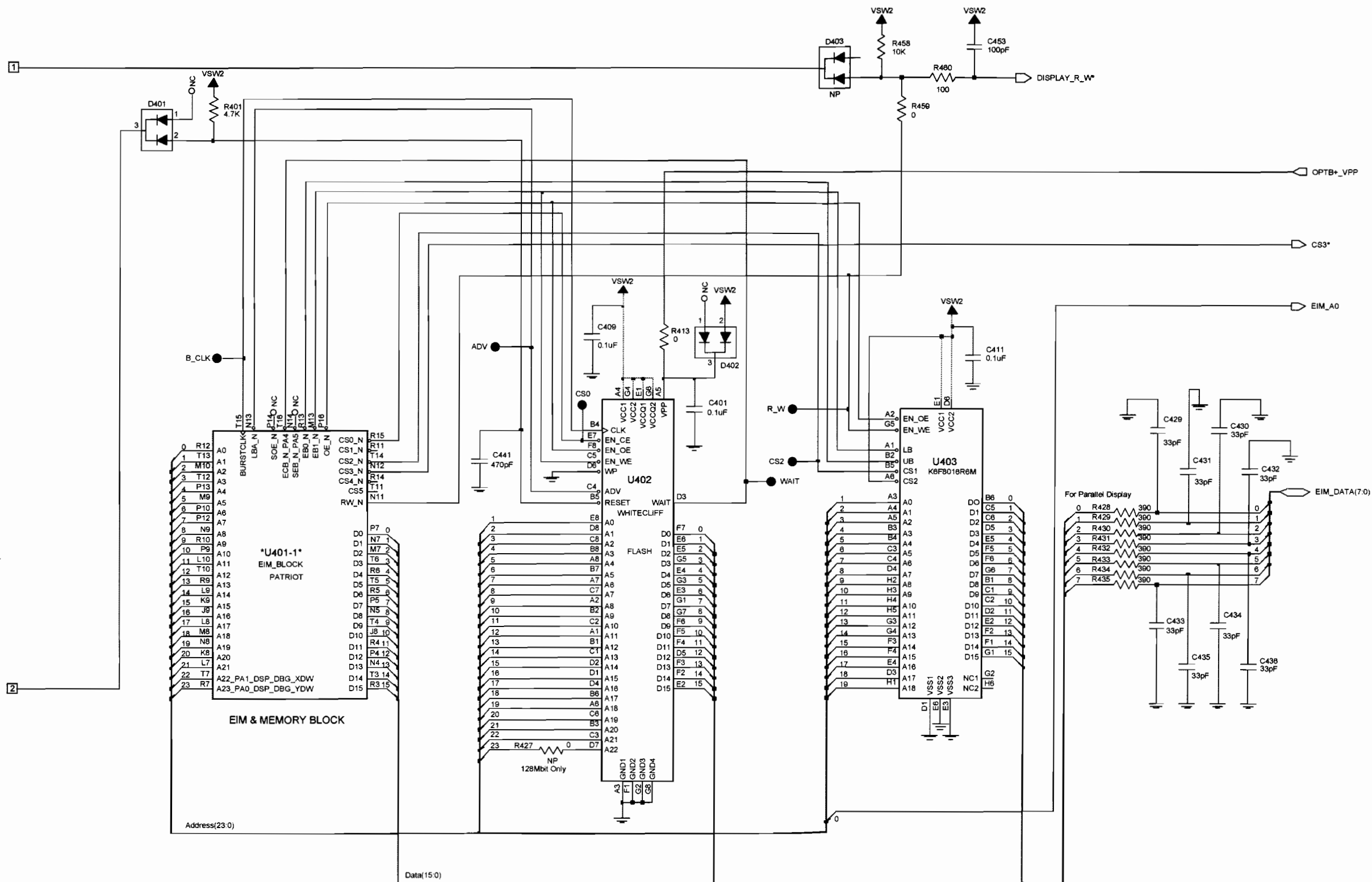


Figure 8-75. NTN9564C VOCON Controller and Memory Circuits—2 of 2