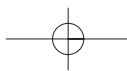
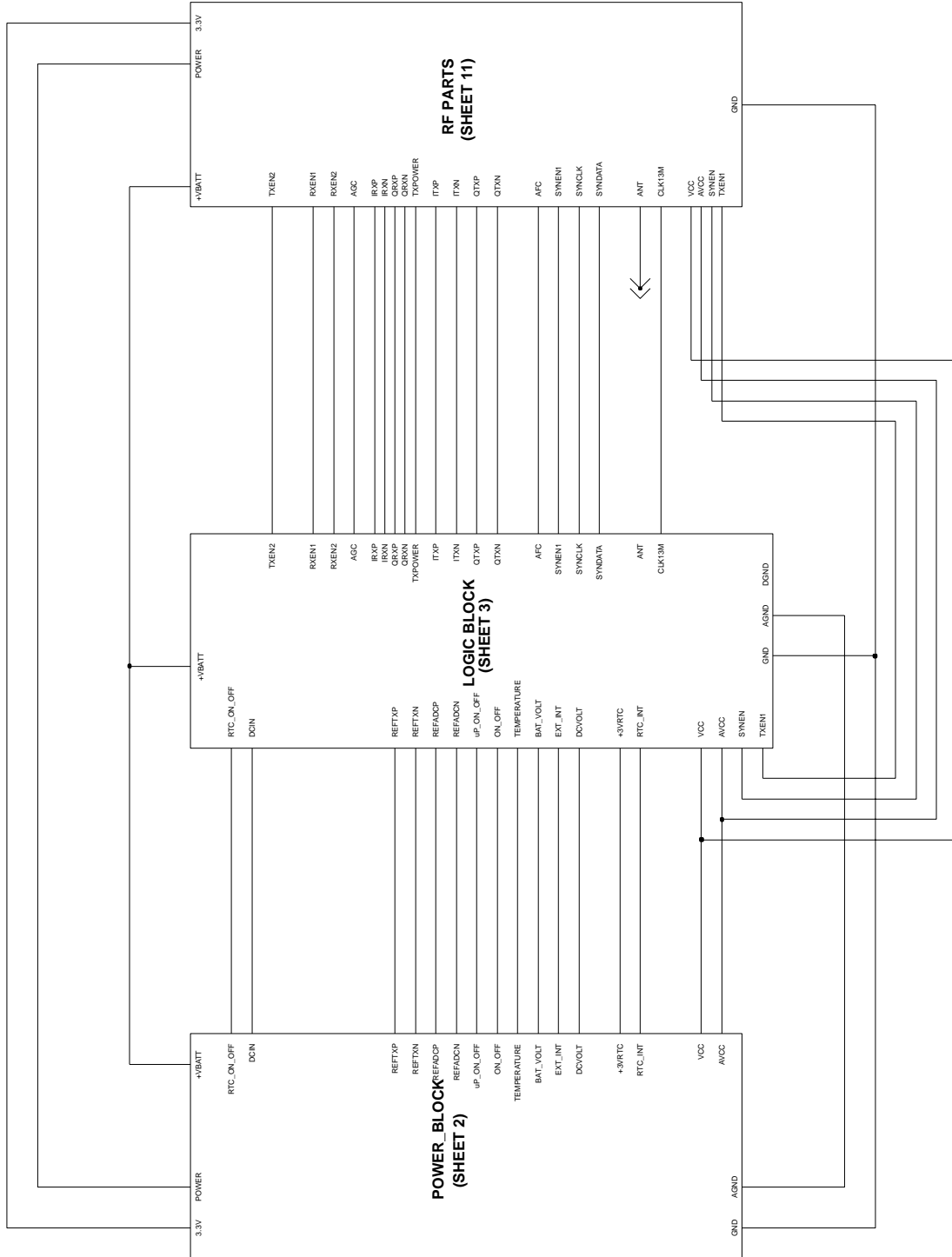


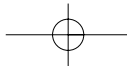
# 5. Schematic Diagrams

## 5-1 GSM Handset Schematic (Top Level) Circuit Diagram

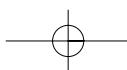
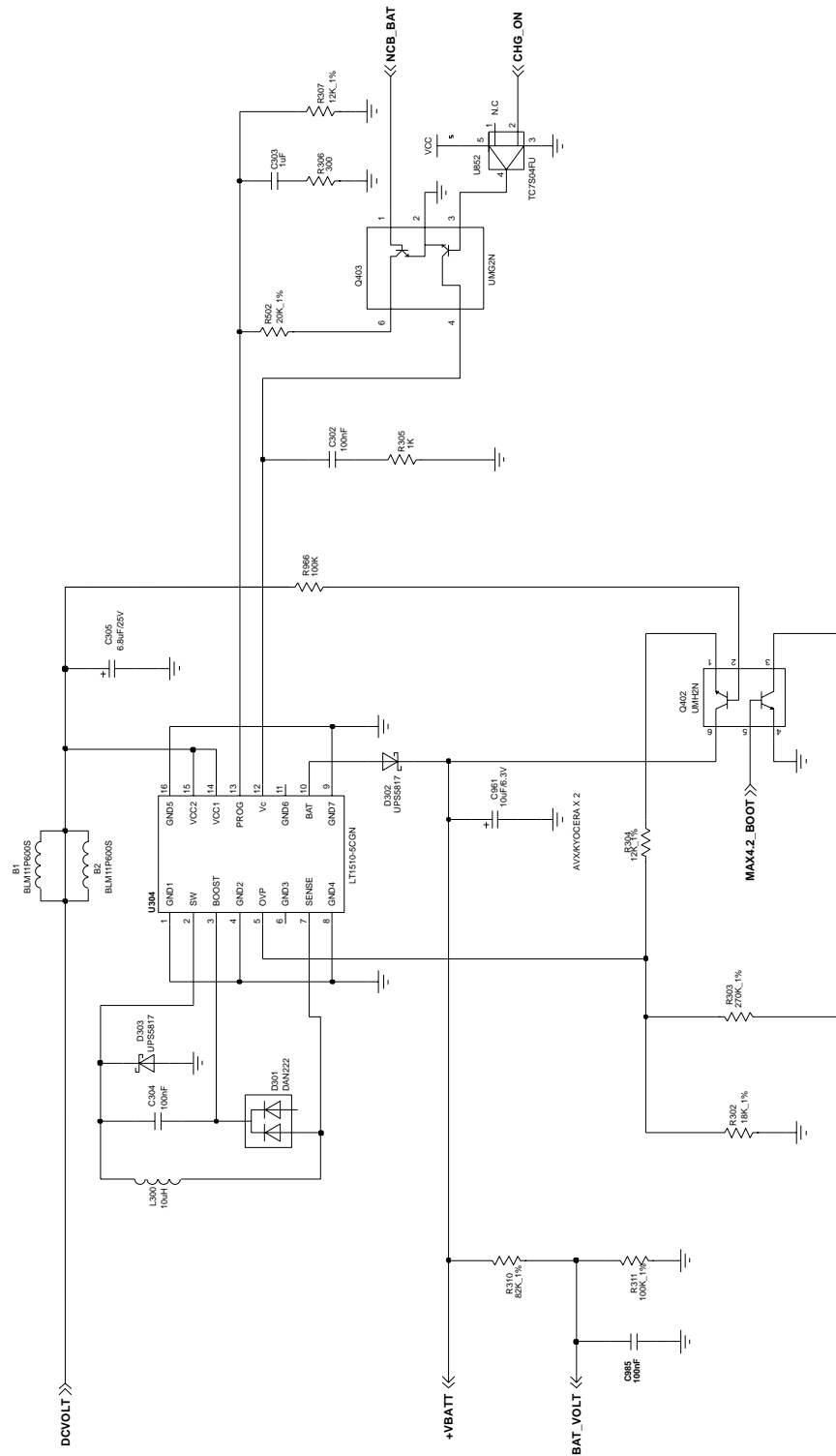






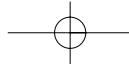


### 5-4 Charger Schematic Circuit Diagram

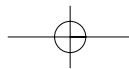
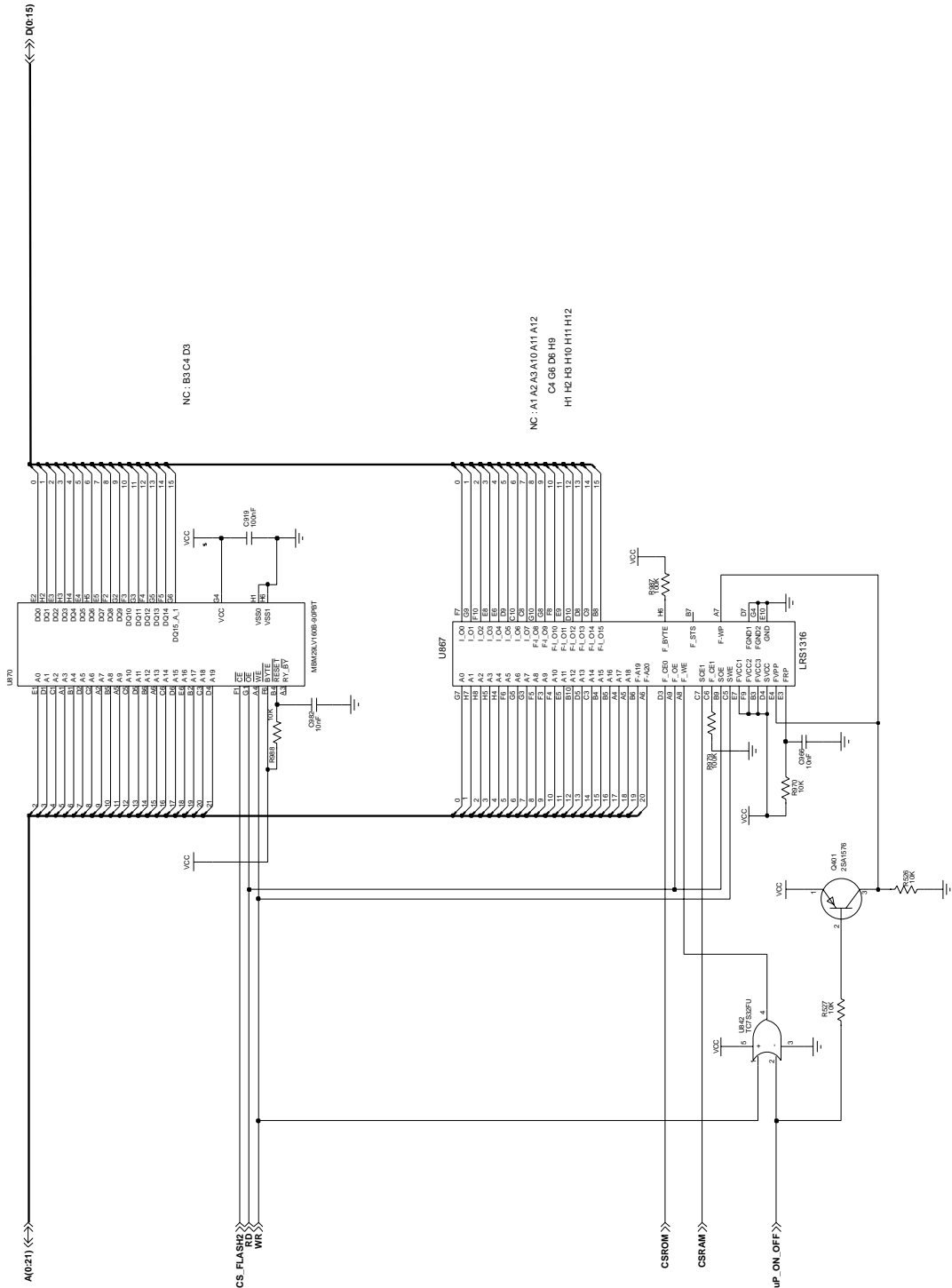


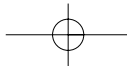




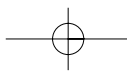
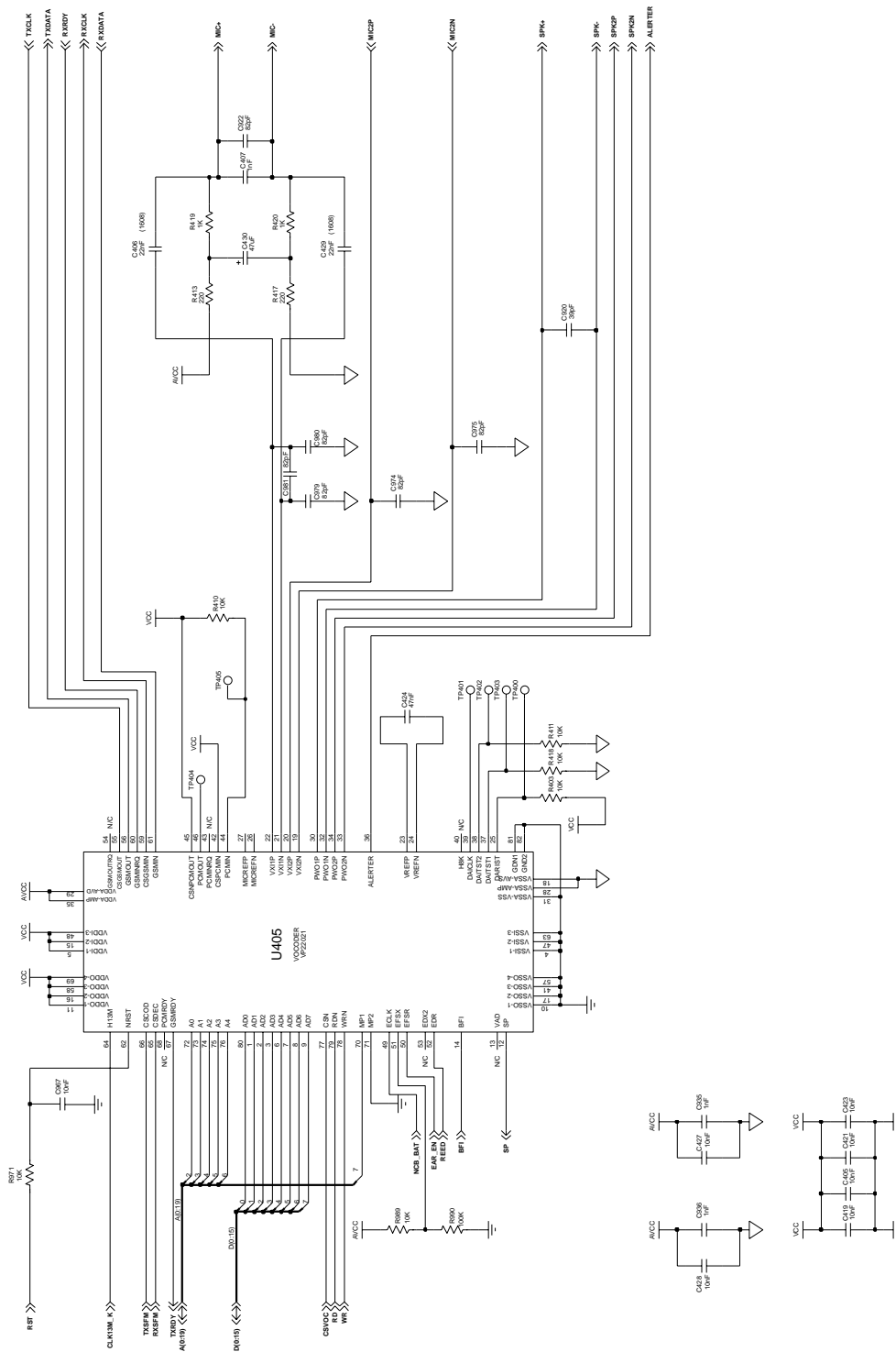


### 5-7 Memory Schematic Circuit Diagram

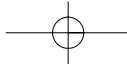




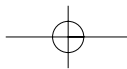
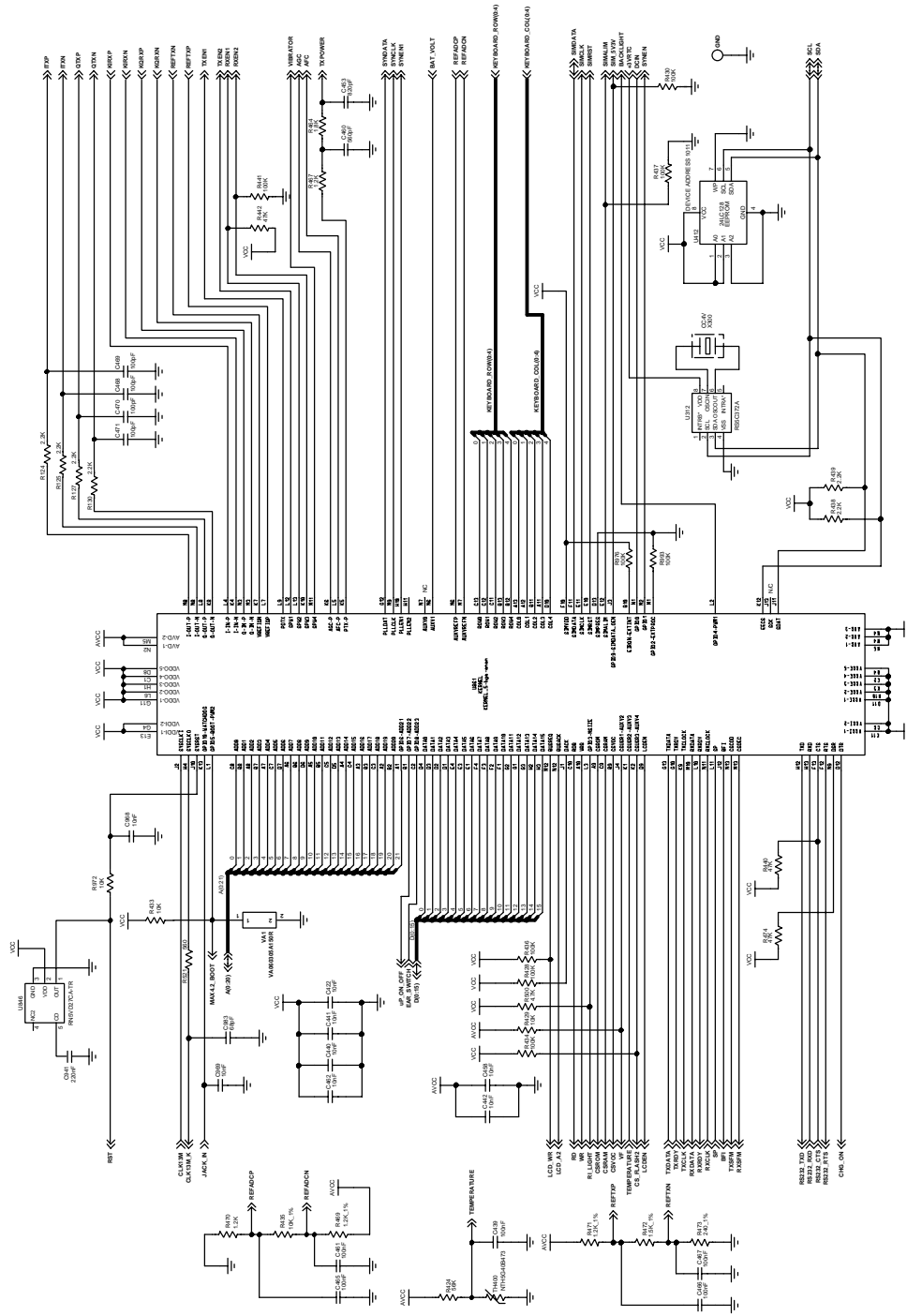
### 5-8 Vocoder Schematic Circuit Diagram

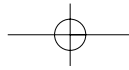




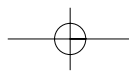
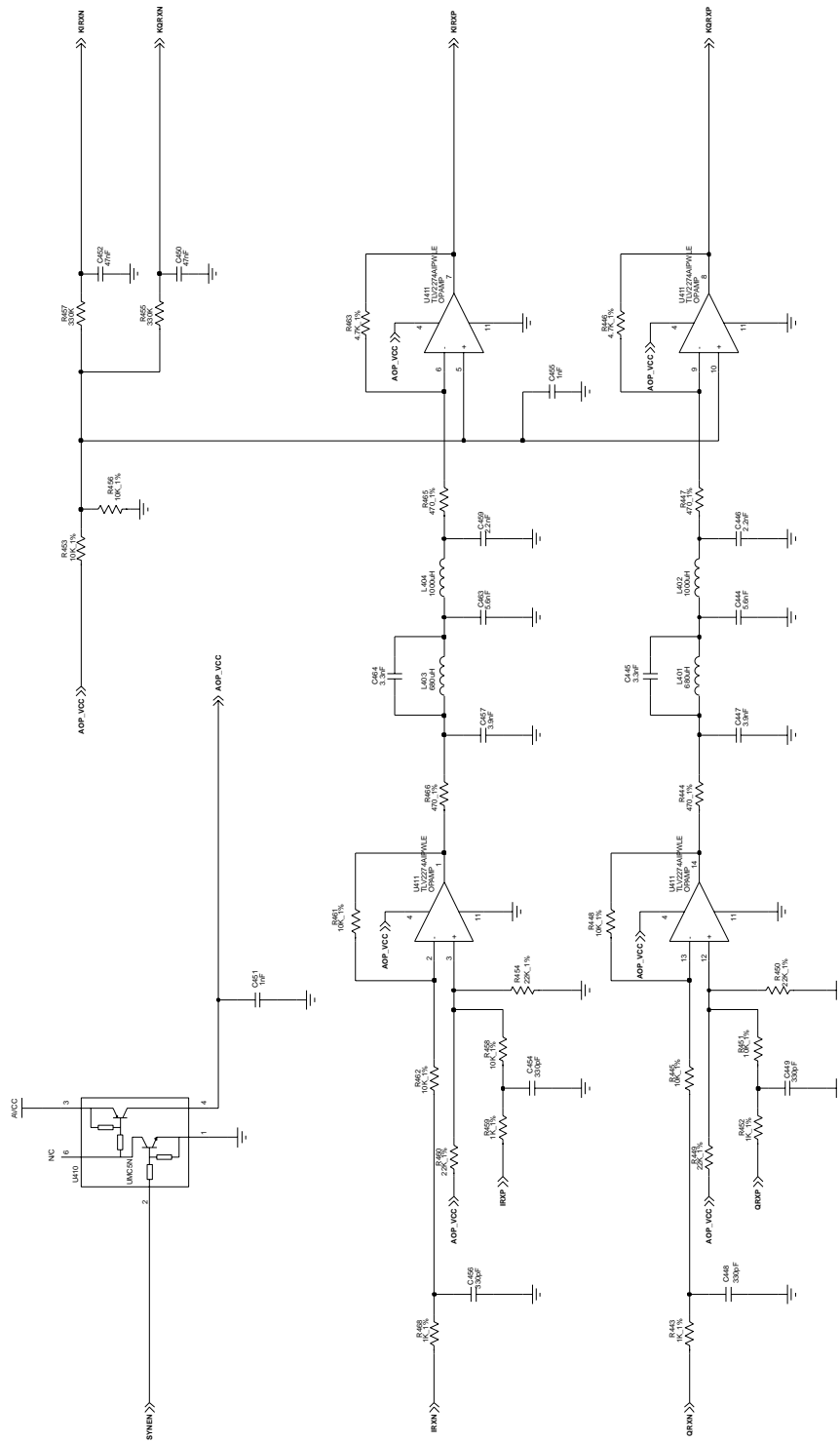


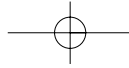
# 5-9 Kernel Schematic Circuit Diagram



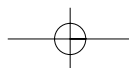
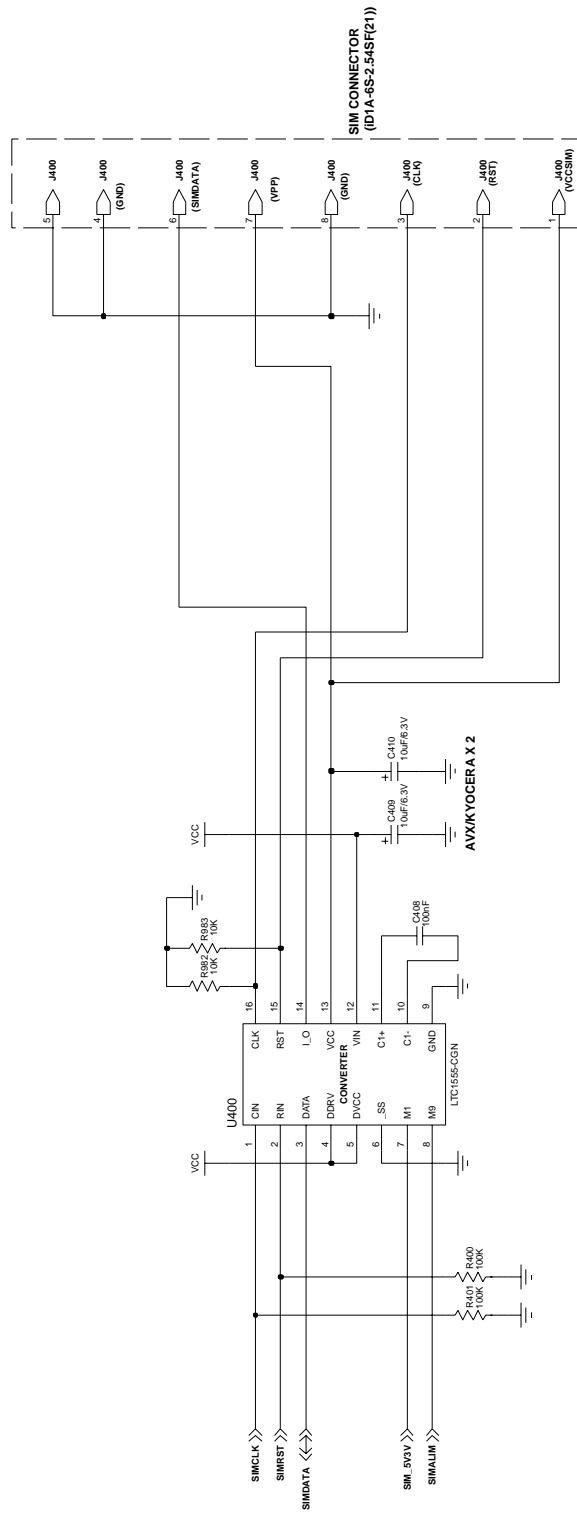


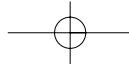
### 5-10 Baseband Filters Schematic Circuit Diagram



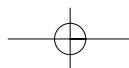
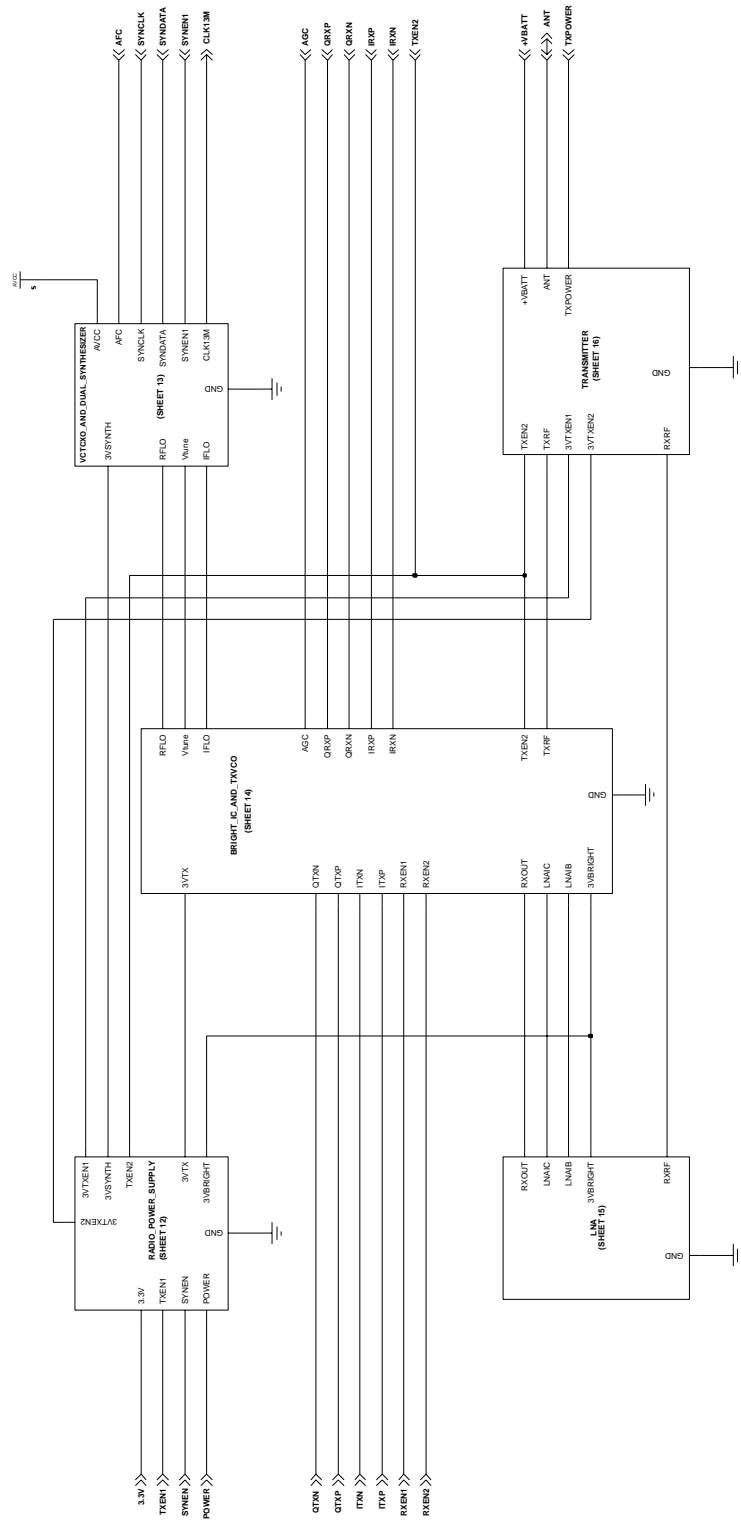


## 5-11 SIM Interface Schematic Circuit Diagram

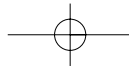




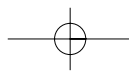
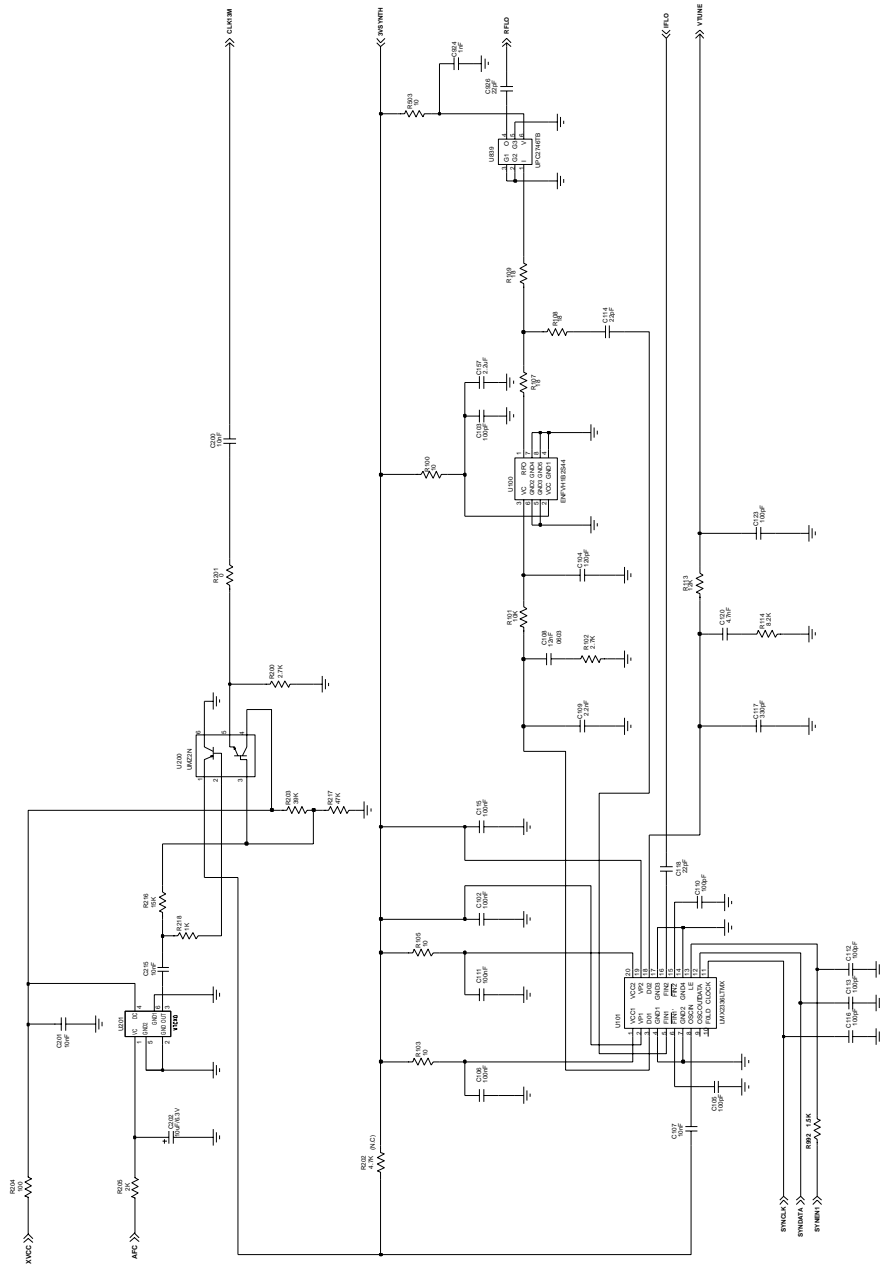
# 5-12 RF TOP Block Circuit Diagram



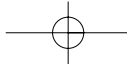




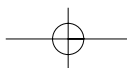
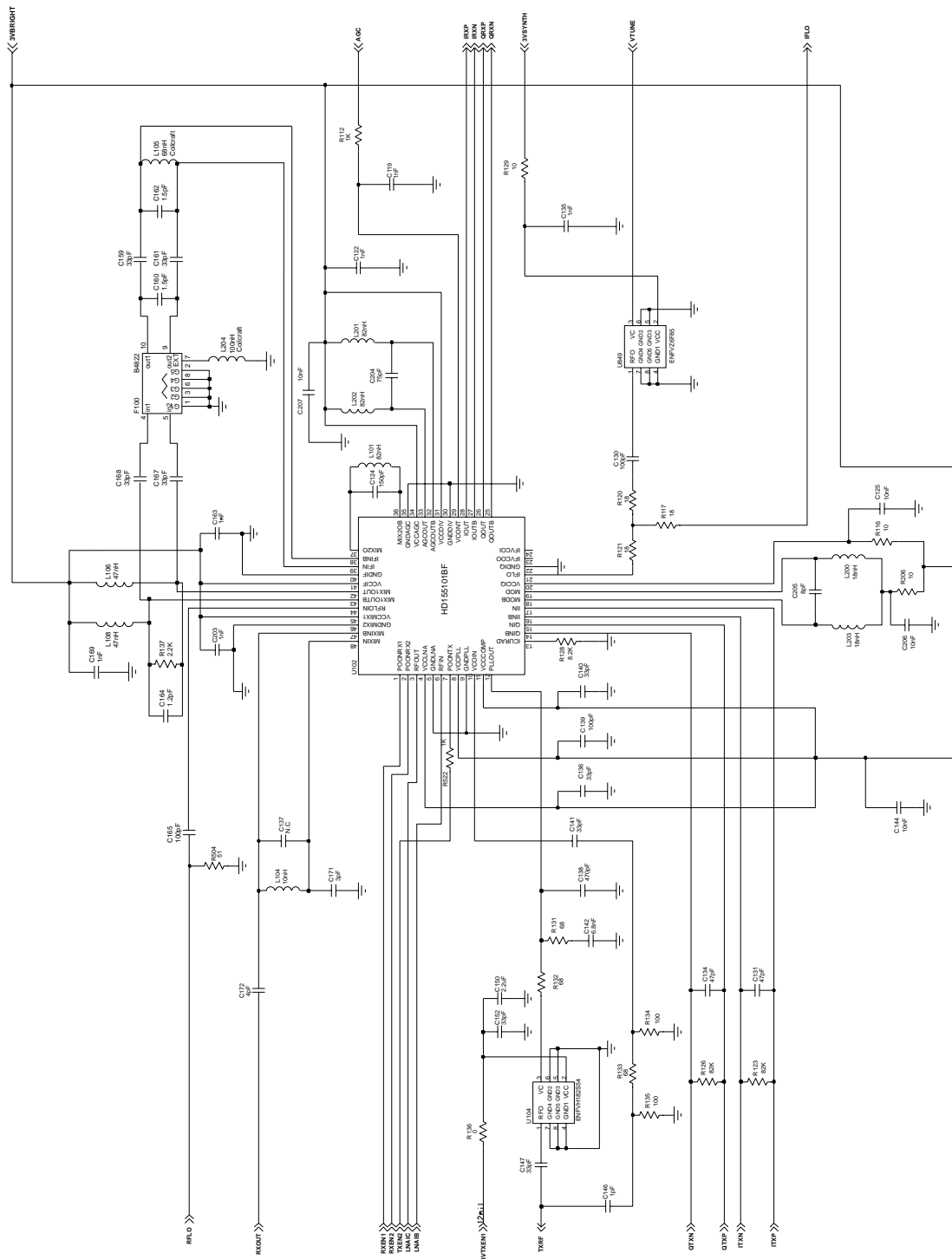
### 5-14 VCTCXO and Dual Synthesizers Circuit Diagram



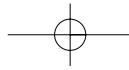




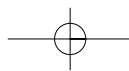
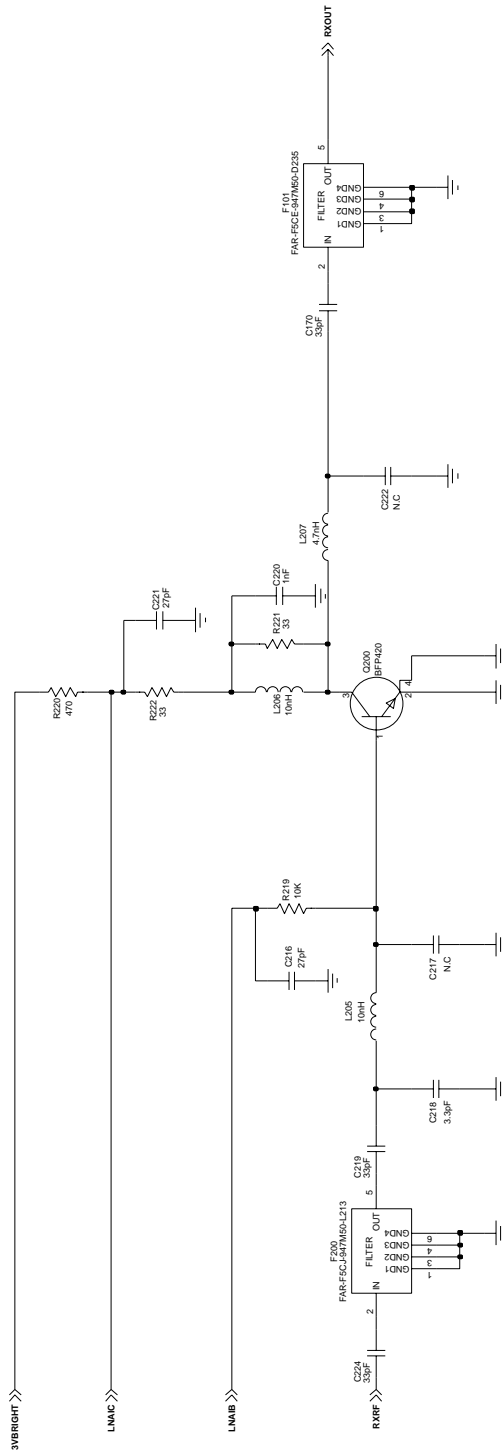
### 5-16 Bright IC and TXVCO Circuit Diagram

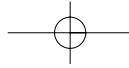




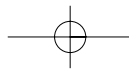
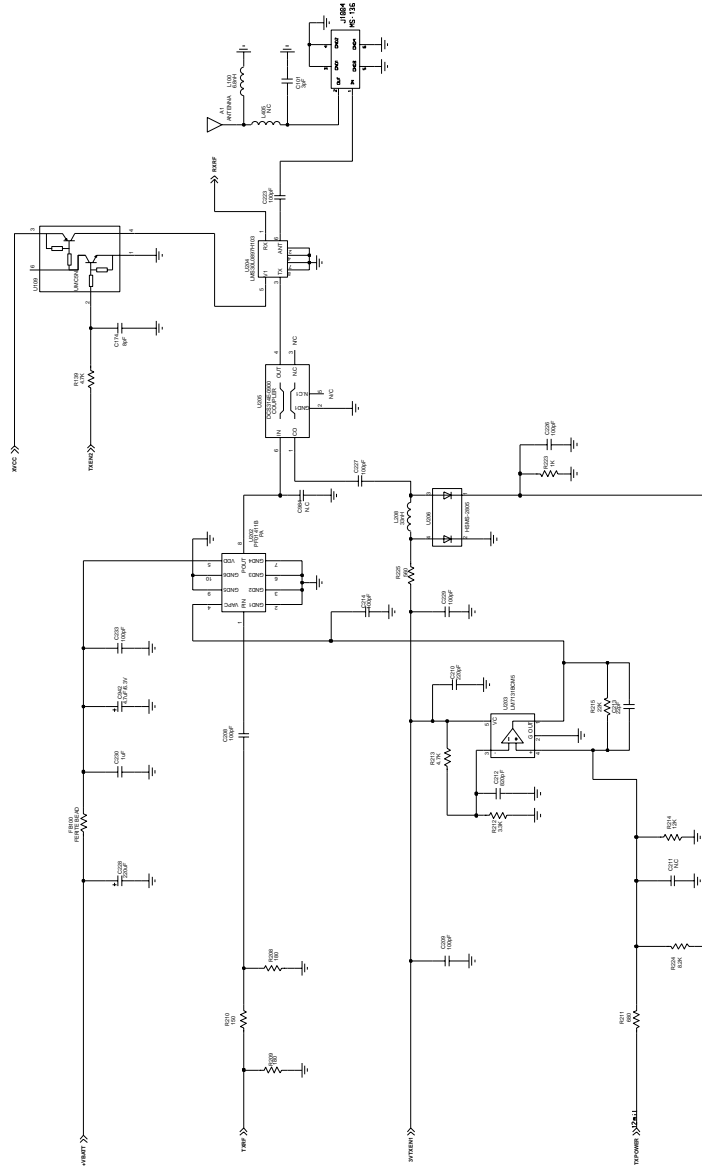


### 5-17 LNA Schematic Circuit Diagram

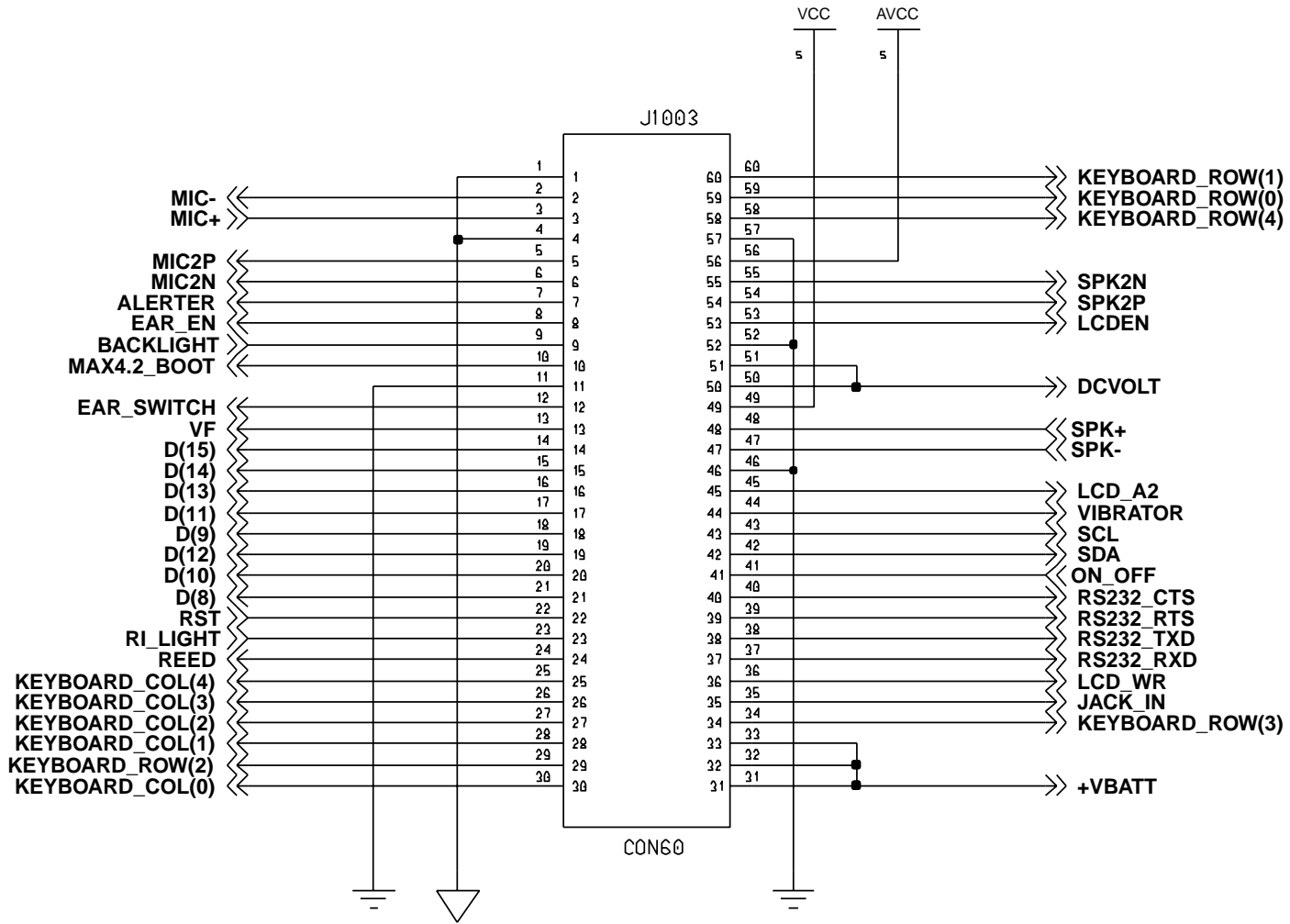


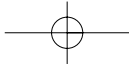


# 5-18 Transmitter Circuit Diagram



### 5-19 B'd to Connector Circuit Diagram



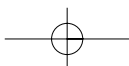


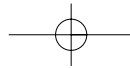
# RF Frequency Plan.

## TX Channel List

Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)	Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)
1	890.1~890.3	890.2	1160.2	270	32	896.3~896.5	896.4	1166.4	270
2	890.3~890.5	890.4	1160.4	270	33	896.5~896.7	896.6	1166.6	270
3	890.5~890.7	890.6	1160.6	270	34	896.7~896.9	896.8	1166.8	270
4	890.7~890.9	890.8	1160.8	270	35	896.9~897.1	897.0	1167.0	270
5	890.9~891.1	891.0	1161.0	270	36	897.1~897.3	897.2	1167.2	270
6	891.1~891.3	891.2	1161.2	270	37	897.3~897.5	897.4	1167.4	270
7	891.3~891.5	891.4	1161.4	270	38	897.5~897.7	897.6	1167.6	270
8	891.5~891.7	891.6	1161.6	270	39	897.7~897.9	897.8	1167.8	270
9	891.7~891.9	891.8	1161.8	270	40	897.9~898.1	898.0	1168.0	270
10	891.9~892.1	892.0	1162.0	270	41	898.1~898.3	898.2	1168.2	270
11	892.1~892.3	892.2	1162.2	270	42	898.3~898.5	898.4	1168.4	270
12	892.3~892.5	892.4	1162.4	270	43	898.5~898.7	898.6	1168.6	270
13	892.5~892.7	892.6	1162.6	270	44	898.7~898.9	898.8	1168.8	270
14	892.7~892.9	892.8	1162.8	270	45	898.9~899.1	899.0	1169.0	270
15	892.9~893.1	893.0	1163.0	270	46	899.1~899.3	899.2	1169.2	270
16	893.1~893.3	893.2	1163.2	270	47	899.3~899.5	899.4	1169.4	270
17	893.3~893.5	893.4	1163.4	270	48	899.5~899.7	899.6	1169.6	270
18	893.5~893.7	893.6	1163.6	270	49	899.7~899.9	899.8	1169.8	270
19	893.7~893.9	893.8	1163.8	270	50	899.9~900.1	900.0	1170.0	270
20	893.9~894.1	894.0	1164.0	270	51	900.1~900.3	900.2	1170.2	270
21	894.1~894.3	894.2	1164.2	270	52	900.3~900.5	900.4	1170.4	270
22	894.3~894.5	894.4	1164.4	270	53	900.5~900.7	900.6	1170.6	270
23	894.5~894.7	894.6	1164.6	270	54	900.7~900.9	900.8	1170.8	270
24	894.7~894.9	894.8	1164.8	270	55	900.9~901.1	901.0	1171.0	270
25	894.9~895.1	895.0	1165.0	270	56	901.1~901.3	901.2	1171.2	270
26	895.1~895.3	895.2	1165.2	270	57	901.3~901.5	901.4	1171.4	270
27	895.3~895.5	895.4	1165.4	270	58	901.5~901.7	901.6	1171.6	270
28	895.5~895.7	895.6	1165.6	270	59	901.7~901.9	901.8	1171.8	270
29	895.7~895.9	895.8	1165.8	270	60	901.9~902.1	902.0	1172.0	270
30	895.9~896.1	896.0	1166.0	270	61	902.1~902.3	902.2	1172.2	270
31	896.1~896.3	896.2	1166.2	270	62	902.3~902.5	902.4	1172.4	270

Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)	Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)
63	902.5~902.7	902.6	1172.6	270	94	908.7~908.9	941.4	1166.4	270
64	902.7~902.9	902.8	1172.8	270	95	908.9~909.1	909.0	1179.0	270
65	902.9~903.1	903.0	1173.0	270	96	909.1~909.3	909.2	1179.2	270
66	903.1~903.3	903.2	1173.2	270	97	909.3~909.5	909.4	1179.4	270
67	903.3~903.5	903.4	1173.4	270	98	909.5~909.7	909.6	1179.6	270
68	903.5~903.7	903.6	1173.6	270	99	909.7~909.9	909.8	1179.8	270
69	903.7~903.9	903.8	1173.8	270	100	909.9~910.1	910.0	1180.0	270
70	903.9~904.1	904.0	1174.0	270	101	910.1~910.3	910.2	1180.2	270
71	904.1~904.3	904.2	1174.2	270	102	910.3~910.5	910.4	1180.4	270
72	904.3~904.5	904.4	1174.4	270	103	910.5~910.7	910.6	1180.6	270
73	904.5~904.7	904.6	1174.6	270	104	910.7~910.9	910.8	1180.8	270
74	904.7~904.9	904.8	1174.8	270	105	910.9~911.1	911.0	1181.0	270
75	904.9~905.1	905.0	1175.0	270	106	911.1~911.3	911.2	1181.2	270
76	905.1~905.3	905.2	1175.2	270	107	911.3~911.5	911.4	1181.4	270
77	905.3~905.5	905.4	1175.4	270	108	911.5~911.7	911.6	1181.6	270
78	905.5~905.7	905.6	1175.6	270	109	911.7~911.9	911.8	1181.8	270
79	905.7~905.9	905.8	1175.8	270	110	911.9~912.1	912.0	1182.0	270
80	905.9~906.1	906.0	1176.0	270	111	912.1~912.3	912.2	1182.2	270
81	906.1~906.3	906.2	1176.2	270	112	912.3~912.5	912.4	1182.4	270
82	906.3~906.5	906.4	1176.4	270	113	912.5~912.7	912.6	1182.6	270
83	906.5~906.7	906.6	1176.6	270	114	912.7~912.9	912.8	1182.8	270
84	906.7~906.9	906.8	1176.8	270	115	912.9~913.1	913.0	1183.0	270
85	906.9~907.1	907.0	1177.0	270	116	913.1~913.3	913.2	1183.2	270
86	907.1~907.3	907.2	1177.2	270	117	913.3~913.5	913.4	1183.4	270
87	907.3~907.5	907.4	1177.4	270	118	913.5~913.7	913.6	1183.6	270
88	907.5~907.7	907.6	1177.6	270	119	913.7~913.9	913.8	1183.8	270
89	907.7~907.9	907.8	1177.8	270	120	913.9~914.1	914.0	1184.0	270
90	907.9~908.1	908.0	1178.0	270	121	914.1~914.3	914.2	1184.2	270
91	908.1~908.3	908.2	1178.2	270	122	914.3~914.5	914.4	1184.4	270
92	908.3~908.5	908.4	1178.4	270	123	914.5~914.7	914.6	1184.6	270
93	908.5~908.7	908.6	1178.6	270	124	914.7~914.9	914.8	1184.8	270





**RX Channel List**

Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)	Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)
1	935.1-935.3	935.2	1160.2	225	32	941.3-941.5	941.4	1166.4	225
2	935.3-935.5	935.4	1160.4	225	33	941.5-941.7	941.6	1166.6	225
3	935.5-935.7	935.6	1160.6	225	34	941.7-941.9	941.8	1166.8	225
4	935.7-935.9	935.8	1160.8	225	35	941.9-942.1	942.0	1167.0	225
5	935.9-936.1	936.0	1161.0	225	36	942.1-942.3	942.2	1167.2	225
6	936.1-936.3	936.2	1161.2	225	37	942.3-942.5	942.4	1167.4	225
7	936.3-936.5	936.4	1161.4	225	38	942.5-942.7	942.6	1167.6	225
8	936.5-936.7	936.6	1161.6	225	39	942.7-942.9	942.8	1167.8	225
9	936.7-936.9	936.8	1161.8	225	40	942.9-943.1	943.0	1168.0	225
10	936.9-937.1	937.0	1162.0	225	41	943.1-943.3	943.2	1168.2	225
11	937.1-937.3	937.2	1162.2	225	42	943.3-943.5	943.4	1168.4	225
12	937.3-937.5	937.4	1162.4	225	43	943.5-943.7	943.6	1168.6	225
13	937.5-937.7	937.6	1162.6	225	44	943.7-943.9	943.8	1168.8	225
14	937.7-937.9	937.8	1162.8	225	45	943.9-944.1	944.0	1169.0	225
15	937.9-938.1	938.0	1163.0	225	46	944.1-944.3	944.2	1169.2	225
16	938.1-938.3	938.2	1163.2	225	47	944.3-944.5	944.4	1169.4	225
17	938.3-938.5	938.4	1163.4	225	48	944.5-944.7	944.6	1169.6	225
18	938.5-938.7	938.6	1163.6	225	49	944.7-944.9	944.8	1169.8	225
19	938.7-938.9	938.8	1163.8	225	50	944.9-945.1	945.0	1170.0	225
20	938.9-939.1	939.0	1164.0	225	51	945.1-945.3	945.2	1170.2	225
21	939.1-939.3	939.2	1164.2	225	52	945.3-945.5	945.4	1170.4	225
22	939.3-939.5	939.4	1164.4	225	53	945.5-945.7	945.6	1170.6	225
23	939.5-939.7	939.6	1164.6	225	54	945.7-945.9	945.8	1170.8	225
24	939.7-939.9	939.8	1164.8	225	55	945.9-946.1	946.0	1171.0	225
25	939.9-940.1	940.0	1165.0	225	56	946.1-946.3	946.2	1171.2	225
26	940.1-940.3	940.2	1165.2	225	57	946.3-946.5	946.4	1171.4	225
27	940.3-940.5	940.4	1165.4	225	58	946.5-946.7	946.6	1171.6	225
28	940.5-940.7	940.6	1165.6	225	59	946.7-946.9	946.8	1171.8	225
29	940.7-940.9	940.8	1165.8	225	60	946.9-947.1	947.0	1172.0	225
30	940.9-941.1	941.0	1166.0	225	61	947.1-947.3	947.2	1172.2	225
31	941.1-941.3	941.2	1166.2	225	62	947.3-947.5	947.4	1172.4	225

Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)	Channel NO.	Freq. Range(MHz)	Center Freq. (MHz)	VCO Freq. (MHz)	IF Freq. (MHz)
63	947.4-947.7	947.6	1172.6	225	94	953.7-953.9	941.4	1166.4	225
64	947.7-947.9	947.8	1172.8	225	95	953.9-954.1	954.0	1179.0	225
65	947.9-948.1	948.0	1173.0	225	96	954.1-954.3	954.2	1179.2	225
66	948.1-948.3	948.2	1173.2	225	97	954.3-954.5	954.4	1179.4	225
67	948.3-948.5	948.4	1173.4	225	98	954.5-954.7	954.6	1179.6	225
68	948.5-948.7	948.6	1173.6	225	99	954.7-954.9	954.8	1179.8	225
69	948.7-948.9	948.8	1173.8	225	100	954.9-955.1	955.0	1180.0	225
70	948.9-949.1	949.0	1174.0	225	101	955.1-955.3	955.2	1180.2	225
71	949.1-949.3	949.2	1174.2	225	102	955.3-955.5	955.4	1180.4	225
72	949.3-949.5	949.4	1174.4	225	103	955.5-955.7	955.6	1180.6	225
73	949.5-949.7	949.6	1174.6	225	104	955.7-955.9	955.8	1180.8	225
74	949.7-949.9	949.8	1174.8	225	105	955.9-956.1	956.0	1181.0	225
75	949.9-950.1	950.0	1175.0	225	106	956.1-956.3	956.2	1181.2	225
76	950.1-950.3	950.2	1175.2	225	107	956.3-956.5	956.4	1181.4	225
77	950.3-950.5	950.4	1175.4	225	108	956.5-956.7	956.6	1181.6	225
78	950.5-950.7	950.6	1175.6	225	109	956.7-956.9	956.8	1181.8	225
79	950.7-950.9	950.8	1175.8	225	110	956.9-957.1	957.0	1182.0	225
80	950.9-951.1	951.0	1176.0	225	111	957.1-957.3	957.2	1182.2	225
81	951.1-951.3	951.2	1176.2	225	112	957.3-957.5	957.4	1182.4	225
82	951.3-951.5	951.4	1176.4	225	113	957.5-957.7	957.6	1182.6	225
83	951.5-951.7	951.6	1176.6	225	114	957.7-957.9	957.8	1182.8	225
84	951.7-951.9	951.8	1176.8	225	115	957.9-958.1	958.0	1183.0	225
85	951.9-952.1	952.0	1177.0	225	116	958.1-958.3	958.2	1183.2	225
86	952.1-952.3	952.2	1177.2	225	117	958.3-958.5	958.4	1183.4	225
87	952.3-952.5	952.4	1177.4	225	118	958.5-958.7	958.6	1183.6	225
88	952.5-952.7	952.6	1177.6	225	119	958.7-958.9	958.8	1183.8	225
89	952.7-952.9	952.8	1177.8	225	120	958.9-959.1	959.0	1184.0	225
90	952.9-953.1	953.0	1178.0	225	121	959.1-959.3	959.2	1184.2	225
91	953.1-953.3	953.2	1178.2	225	122	959.3-959.5	959.4	1184.4	225
92	953.3-953.5	953.4	1178.4	225	123	959.5-959.7	959.6	1184.6	225
93	953.5-953.7	953.6	1178.6	225	124	959.7-959.9	959.8	1184.8	225

