

Chapter 8 Schematics, Board Overlays, and Parts Lists

This chapter contains the schematics, board overlays, and parts lists for the XTS 5000 radio. Use them in conjunction with the theory of operation and the troubleshooting procedures, charts, and waveforms to isolate a problem to the component level.

When schematics are viewed on line or as a PDF file, colors can be seen that denote power and signal paths. The red color denotes voltage paths, blue denotes the receive path, and green denotes the transmit path.

The following tables list the pages where the schematics and board overlays for the XTS 5000 radio are found.

8.1 List of Transceiver Schematics and Board Overlays

Table 8-1. List of Transceiver Schematics and Board Overlays

Transceiver Board Schematic/Board Layout	Page No.
700–800 MHz	
NUF3577 Transceiver (RF) Board Overall Circuit Schematic	8-3
NUF3577 Antenna Switch and Harmonic Filter Circuits	8-4
NUF3577 Receiver Front End Circuit	8-5
NUF3577 Receiver Back End Circuit	8-6
NUF3577 Transmitter and Automatic Level Control Circuits	8-7
NUF3577 Frequency Generation Unit (Synthesizer) Circuit	8-8
NUF3577 Frequency Generation Unit (VCO) Circuit	8-9
NUF3577 Transceiver (RF) Board Layout—Side 1	8-10
NUF3577 Transceiver (RF) Board Layout—Side 2	8-11
NUF3577C Transceiver (RF) Board Overall Circuit Schematic	8-17
NUF3577C Antenna Switch and Harmonic Filter Circuits	8-18
NUF3577C Receiver Front End Circuit	8-19
NUF3577C Receiver Back End Circuit	8-20
NUF3577C Transmitter and Automatic Level Control Circuits	8-21
NUF3577C Frequency Generation Unit (Synthesizer) Circuit	8-22
NUF3577C Frequency Generation Unit (VCO) Circuit	8-23

Table 8-1. List of Transceiver Schematics and Board Overlays (Continued)

Transceiver Board Schematic/Board Layout	Page No.
NUF3577C Transceiver (RF) Board Layout—Side 1	8-24
NUF3577C Transceiver (RF) Board Layout—Side 2	8-25
VHF	
NLD8910B Transceiver (RF) Board Overall Circuit Schematic	8-31
NLD8910B DC Power Circuits	8-32
NLD8910B Antenna Switch and Harmonic Filter Circuits	8-33
NLD8910B Receiver Front End Circuit	8-34
NLD8910B Receiver Amplifier and Filter Circuit	8-35
NLD8910B Mixer and IF Filter Circuit	8-36
NLD8910B Receiver Back End Circuit	8-37
NLD8910B Transmitter and Automatic Level Control Circuits	8-38
NLD8910B Frequency Generation Unit (Synthesizer) Circuit	8-39
NLD8910B Frequency Generation Unit (VCO) Circuit	8-40
NLD8910B Transceiver (RF) Board Layout—Side 1	8-41
NLD8910B Transceiver (RF) Board Layout—Side 2	8-42
UHF Range 1	
NLE4272A Transceiver (RF) Board Overall Circuit Schematic	8-48
NLE4272A Antenna Switch and Harmonic Filter Circuits	8-49
NLE4272A Receiver Front End Circuit	8-50
NLE4272A Receiver Back End Circuit	8-51
NLE4272A Transmitter Power Amplifier and Automatic Level Control Circuit	8-52
NLE4272A Frequency Generation Unit (Synthesizer) Circuit	8-53
NLE4272A Frequency Generation Unit (VCO) Circuit	8-54
NLE4272A Transceiver (RF) Board Layout—Side 1	8-55
NLE4272A Transceiver (RF) Board Layout—Side 2	8-56
NLE4278A Transceiver (RF) Board Overall Circuit Schematic	8-64
NLE4278A Antenna Switch and Harmonic Filter Circuits	8-65

Table 8-1. List of Transceiver Schematics and Board Overlays (Continued)

Transceiver Board Schematic/Board Layout	Page No.
NLE4278A Receiver Front End Circuit	8-66
NLE4278A Receiver Back End Circuit	8-67
NLE4278A Transmitter Power Amplifier and Automatic Level Control Circuit	8-68
NLE4278A Frequency Generation Unit (Synthesizer) Circuit	8-69
NLE4278A Frequency Generation Unit (VCO) Circuit	8-70
NLE4278A Transceiver (RF) Board Layout—Side 1	8-71
NLE4278A Transceiver (RF) Board Layout—Side 2	8-72

8.2 List of VOCON Schematics and Board Overlays

Table 8-2. List of VOCON Schematics and Board Overlays

VOCON Board Schematic/Board Layout	Page No.
NTN9564B VOCON Board Overall Schematic	8-96
NTN9564B VOCON Universal Connector Circuit	8-98
NTN9564B VOCON Flipper Circuit	8-99
NTN9564B VOCON Controller and Memory Circuits	8-100
NTN9564B VOCON Audio and DC Circuits	8-102
NTN9564B VOCON Board Layout—Side 1	8-103
NTN9564B VOCON Board Layout—Side 2	8-104
NTN9564C VOCON Board Overall Schematic	8-110
NTN9564C VOCON Universal Connector Circuit	8-112
NTN9564C VOCON Flipper Circuit	8-113
NTN9564C VOCON Controller and Memory Circuits	8-114
NTN9564C VOCON Audio and DC Circuits	8-116
NTN9564C VOCON Board Layout—Side 1	8-117
NTN9564C VOCON Board Layout—Side 2	8-118

Table 8-2. List of VOCON Schematics and Board Overlays (Continued)

VOCON Board Schematic/Board Layout	Page No.
NNTN4563A/B VOCON Board Overall Schematic	8-124
NNTN4563A/B VOCON Universal Connector Circuit	8-126
NNTN4563A/B VOCON Flipper Circuit	8-127
NNTN4563A/B VOCON Controller and Memory Circuits	8-128
NNTN4563A/B VOCON Audio and DC Circuits	8-130
NNTN4563A/B VOCON Board Layout—Side 1	8-131
NNTN4563A/B VOCON Board Layout—Side 2	8-132
NNTN4819A VOCON Board Overall Schematic—Sheet 1 of 2	8-139
NNTN4819A VOCON Board Overall Schematic—Sheet 2 of 2	8-140
NNTN4819A VOCON Universal Connector and ESD Circuits	8-141
NNTN4819A VOCON Flipper Circuit	8-142
NNTN4819A VOCON Controller and Memory Circuits	8-143
NNTN4819A VOCON Audio/DC Circuits	8-145
NNTN4819A VOCON Board Layout—Side 1	8-146
NNTN4819A VOCON Board Layout—Side 2	8-147
NNTN4717D VOCON Board Overall Schematic—Sheet 1 of 2	8-153
NNTN4717D VOCON Board Overall Schematic—Sheet 2 of 2	8-154
NNTN4717D VOCON Board Universal Connector Circuit Schematic	8-155
NNTN4717D VOCON Board Flipper Circuit	8-156
NNTN4717D VOCON Board Controller and Memory Circuits	8-157
NNTN4717D VOCON Board Audio/DC Circuits	8-159
NNTN4717D VOCON Board Layout—Side 1	8-160
NNTN4717D VOCON Board Layout—Side 2	8-161

8.3 Transceiver (RF) Boards

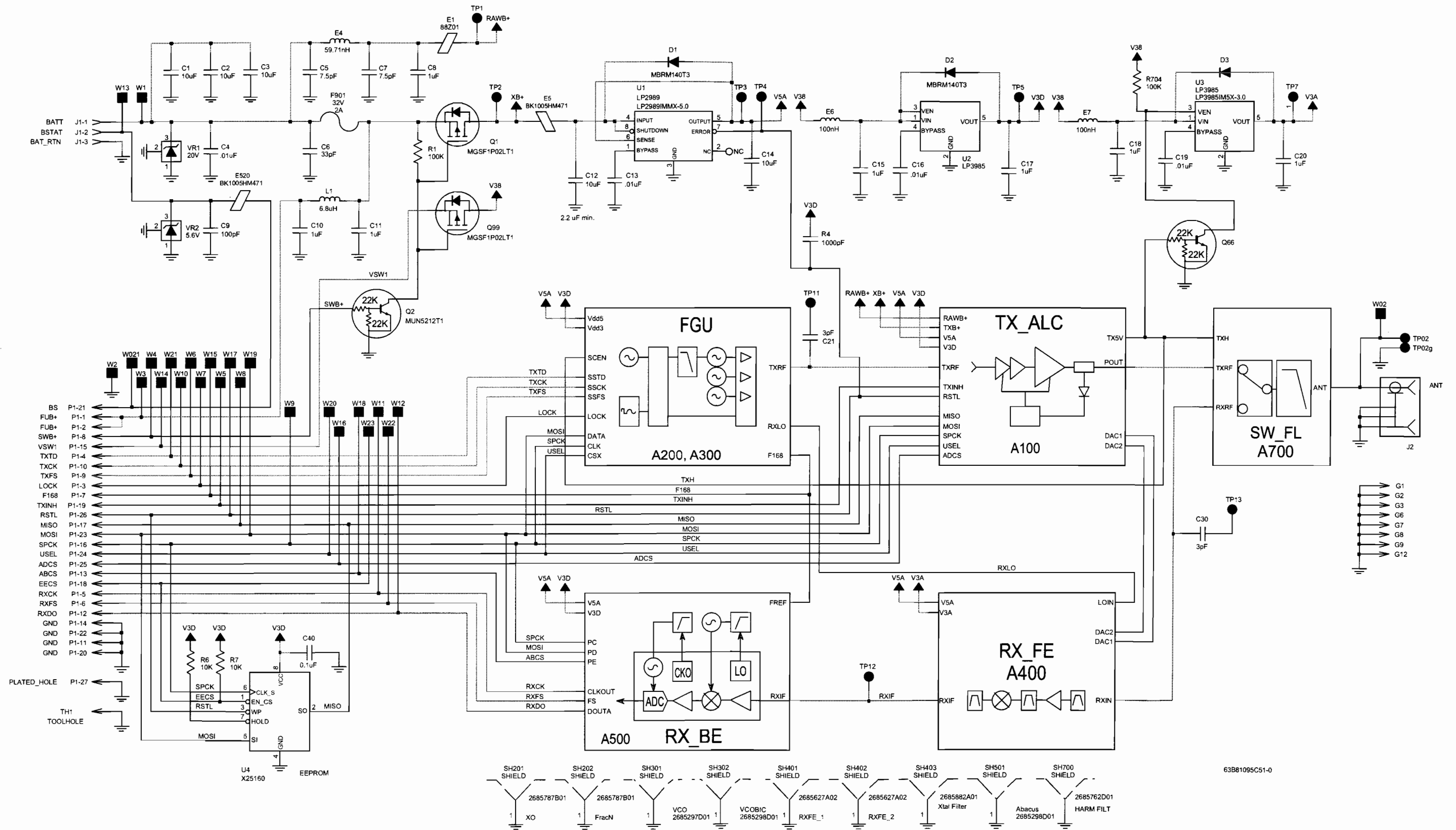


Figure 8-1. NUF3577 700-800 MHz Transceiver (RF) Board Overall Circuit Schematic

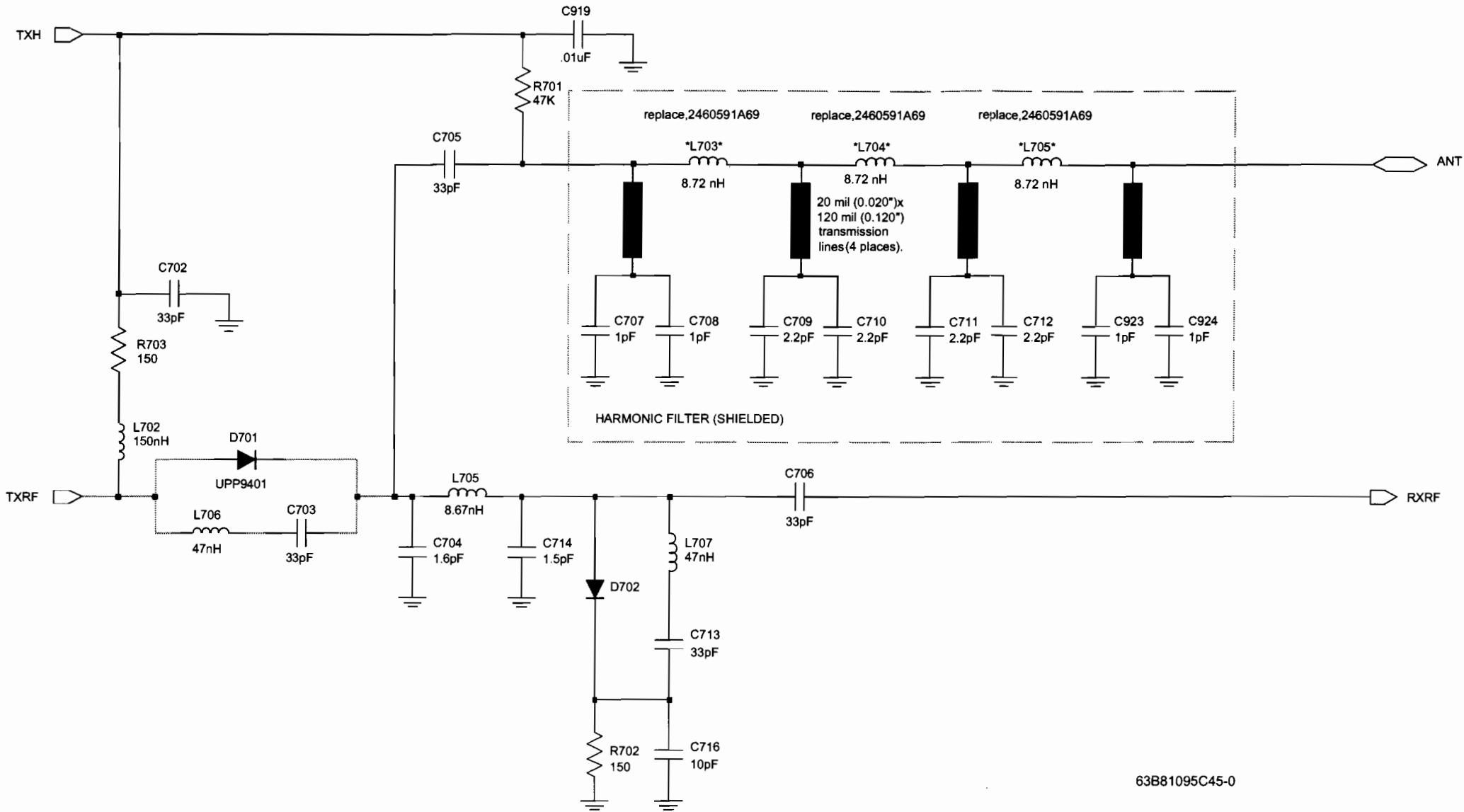


Figure 8-2. NUF3577 700–800 MHz Antenna Switch and Harmonic Filter Circuits

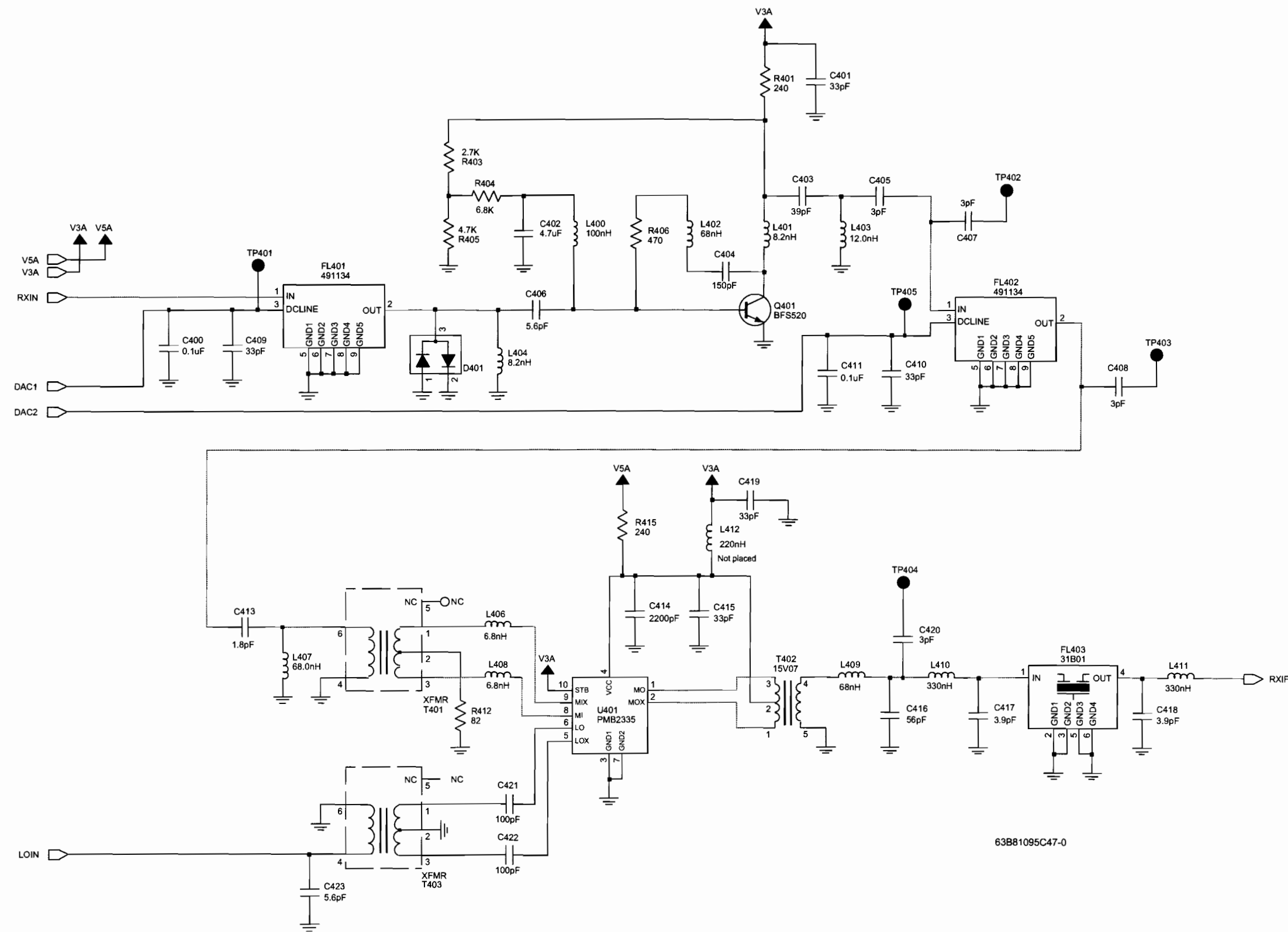


Figure 8-3. NUF3577 700–800 MHz Receiver Front End Circuit

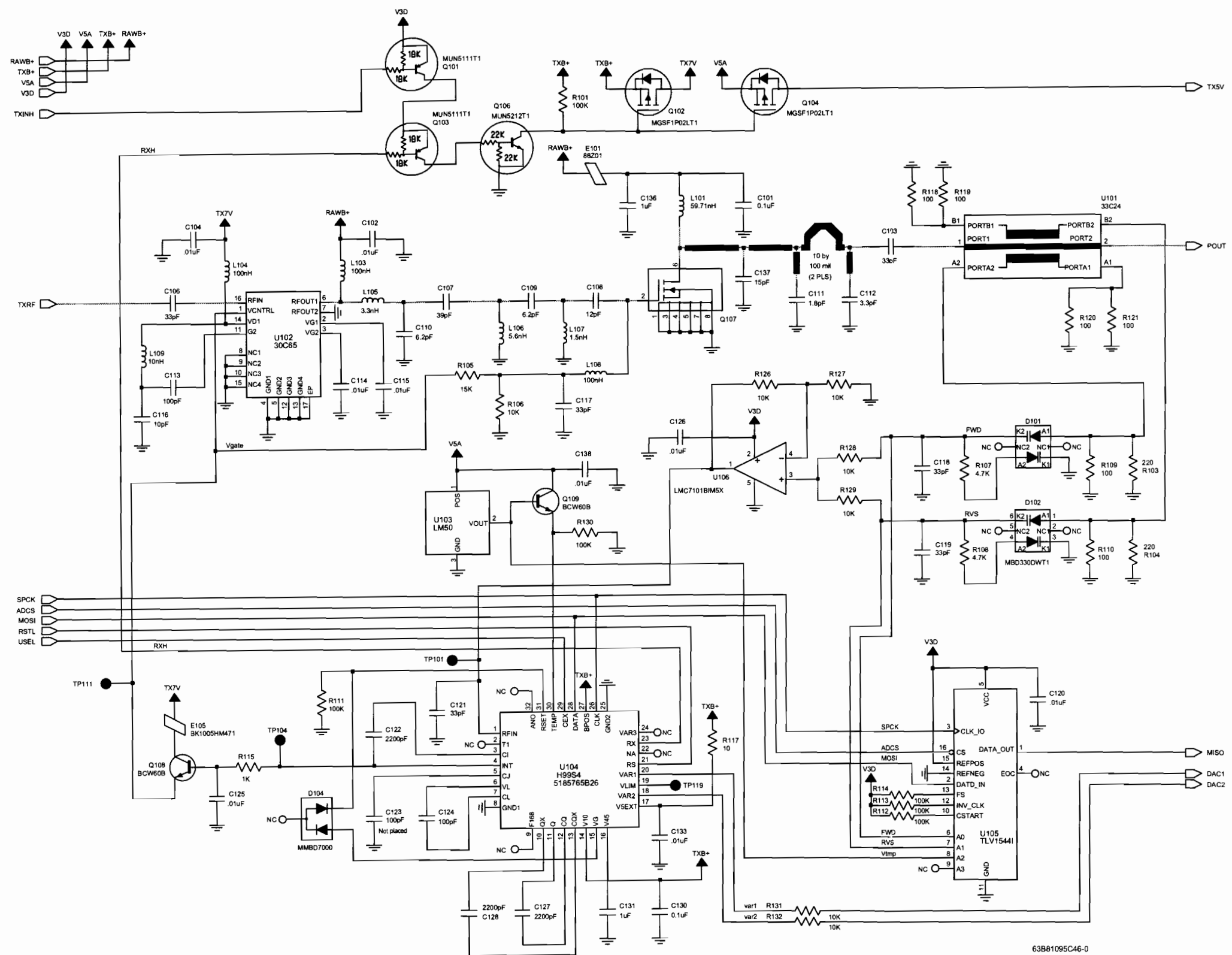


Figure 8-5. NUF3577 700–800 MHz Transmitter and Automatic Level Control Circuits

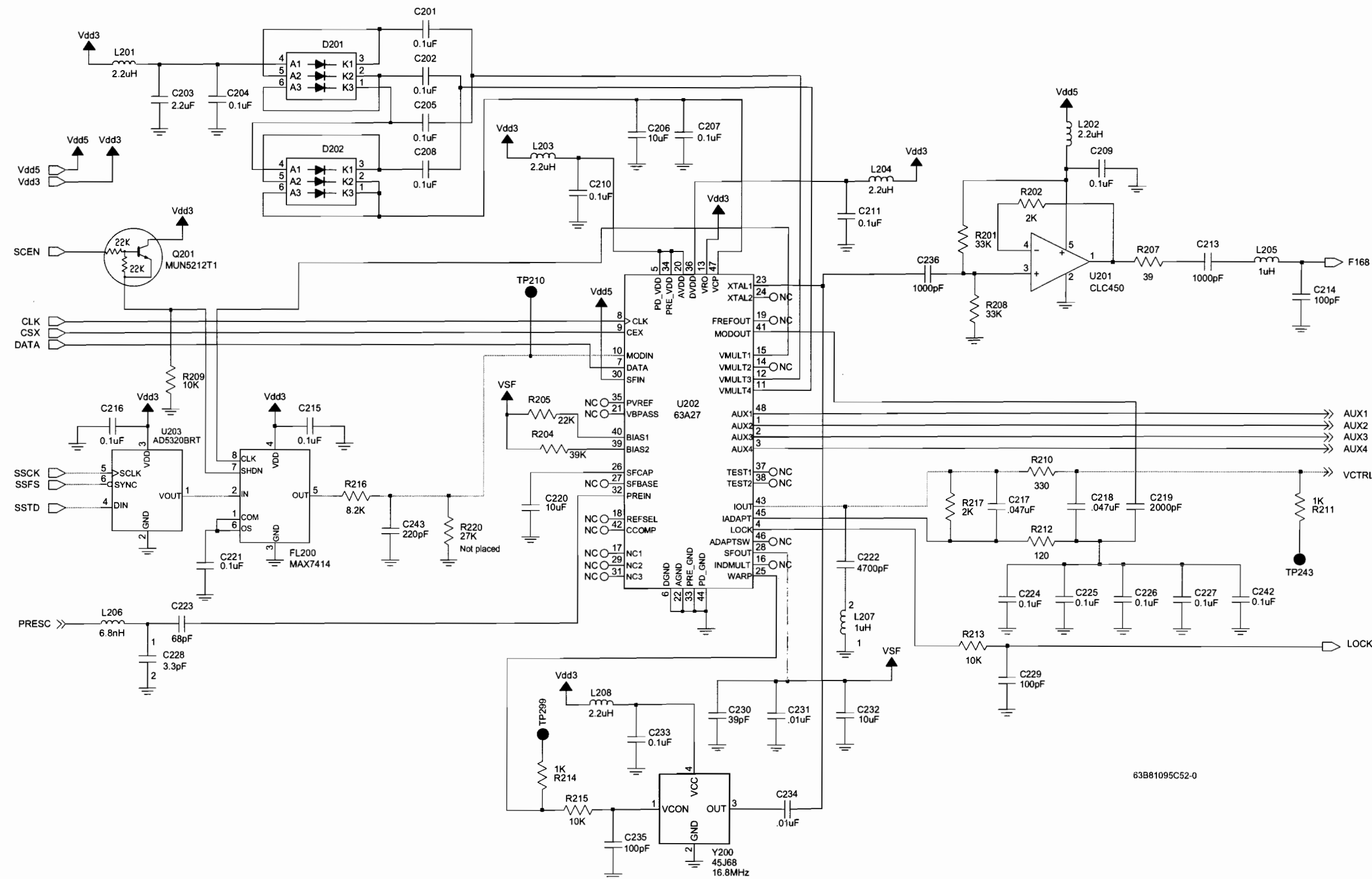


Figure 8-6. NUF3577 700–800 MHz Frequency Generation Unit (Synthesizer) Circuit—1 of 2

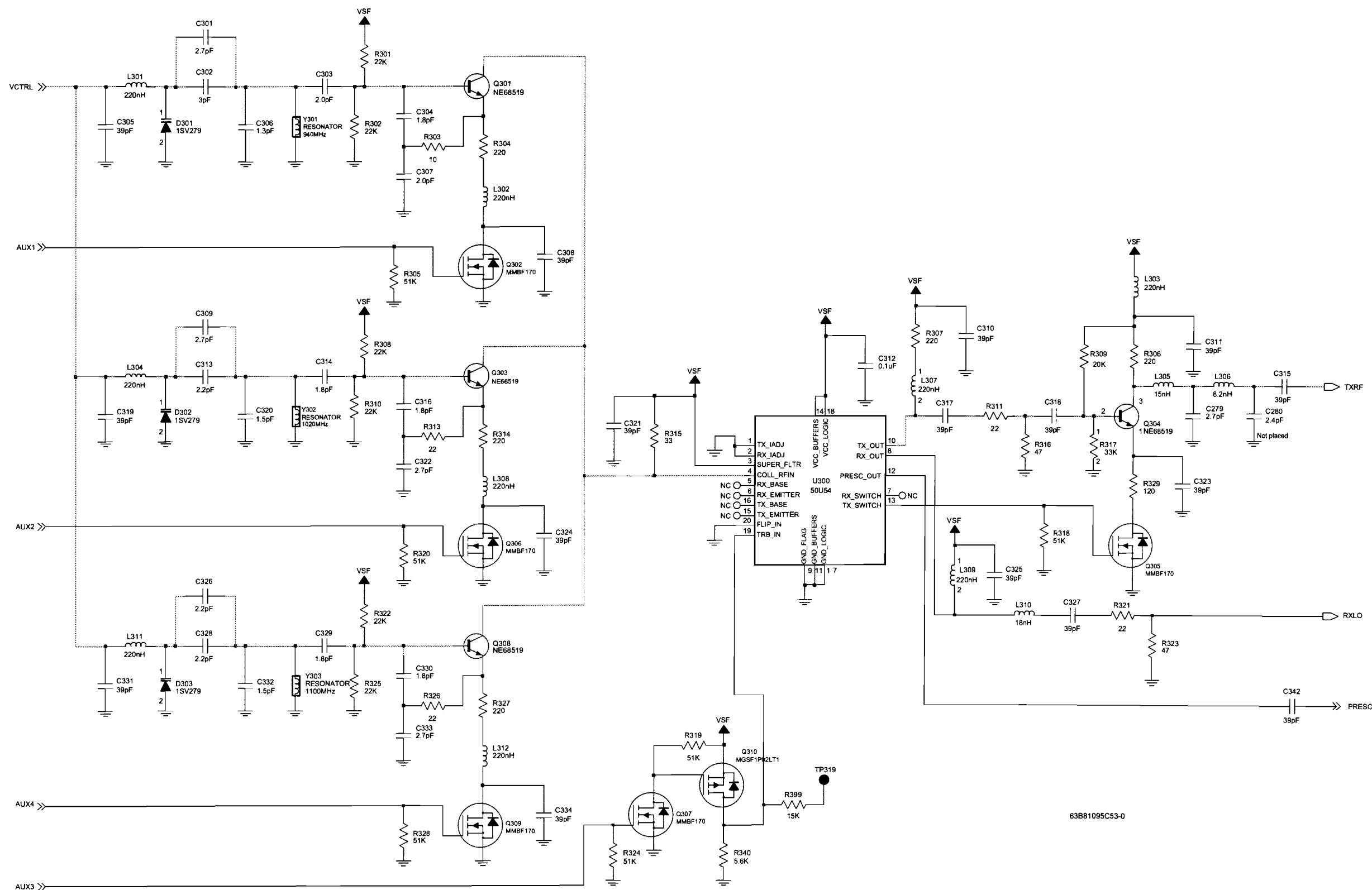


Figure 8-7. NUF3577 700-800 MHz Frequency Generation Unit (VCO) Circuit—2 of 2

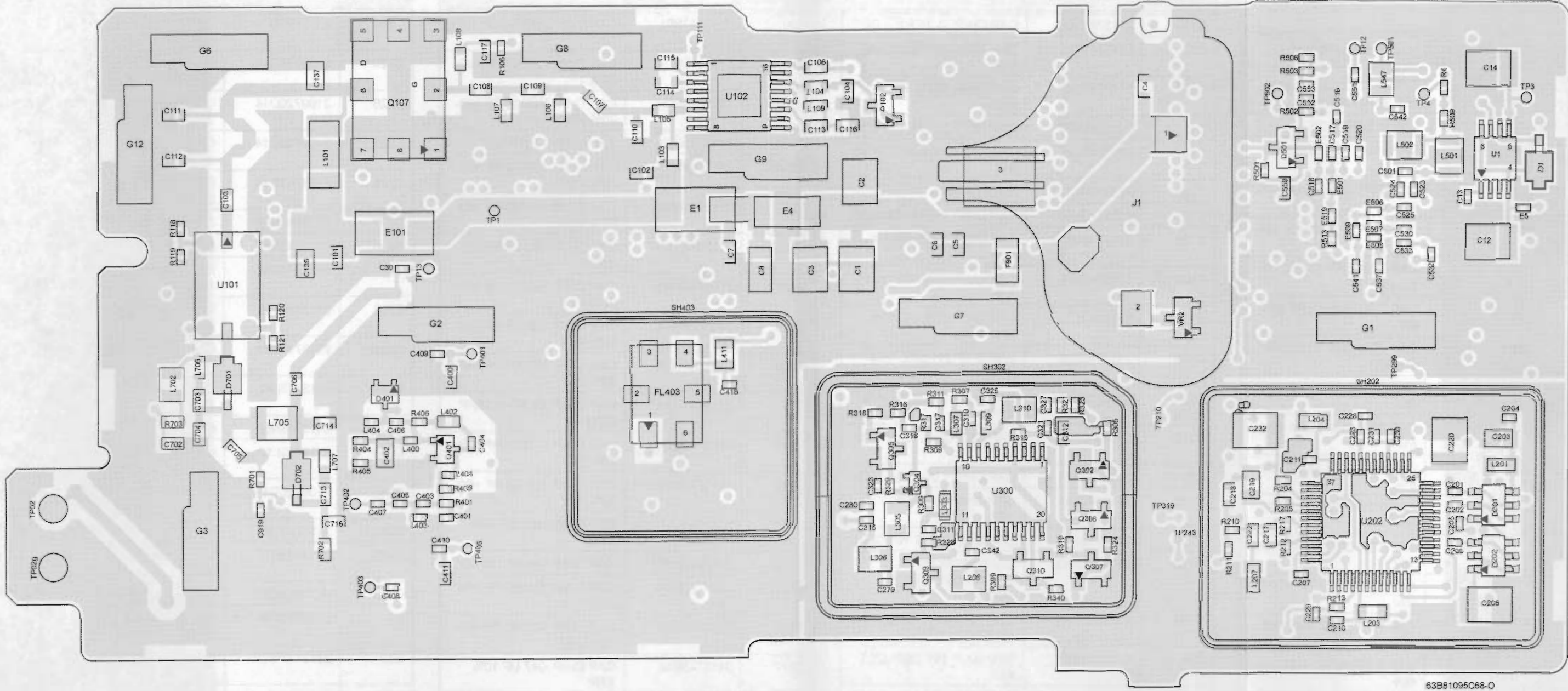


Figure 8-9. NUF3577 700-800 MHz Transceiver (RF) Board Layout—Side 2

NUF3577 700–800 MHz Transceiver (RF) Board Parts List

Ref. Des.	Part Number	Description
—	1105033S13	RIBBON LBL
—	5405569Y01	LBL BARCODE APC
—	5405569Y03	LABEL BARCODE
C1	2113743T19	CAP 10UF 16V CER 3225 X5R
C10	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C101	2113932E20	CAP CER CHP .10 UF 10% 16V
C102	2113931F49	CAP CER CHP 10,000 PF 5% 50V
C103	2113930F39	CAP CER CHP 33 PF 50V 5%
C104	2113931F49	CAP CER CHP 10,000 PF 5% 50V
C106	2113930F39	CAP CER CHP 33 PF 50V 5%
C107	2113930F41	CAP CER CHP 39 PF 50V 5%
C108	2113930F29	CAP CER CHP 12 PF 50V 5%
C109	2113930F22	CAP 6.2 PF 50V +/- .25 PF 50V
C11	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C110	2113930F22	CAP 6.2 PF 50V +/- .25 PF 50V
C111	2113930F09	CAP 1.8 PF 50V +/- 0.1 PF 50V
C112	2113930F15	CAP 3.3 PF 50V +/- .25 PF 50V
C113	2113930F51	CAP CER CHP 100 PF 50V 5%
C114	2113931F49	CAP CER CHP 10,000 PF 5% 50V
C115	2113931F49	CAP CER CHP 10,000 PF 5% 50V
C116	2113930F27	CAP CER CHP 10 PF 50V 5%
C117	2113930F39	CAP CER CHP 33 PF 50V 5%
C118	2113743N38	CAP CHIP 33.0 PF 5% COG

Ref. Des.	Part Number	Description
C119	2113743N38	CAP CHIP 33.0 PF 5% COG
C12	2113743T19	CAP 10UF 16V CER 3225 X5R
C120	2113743L41	CAP CHIP 10000 PF 10% X7R
C121	2113743N38	CAP CHIP 33.0 PF 5% COG
C122	2113743L25	CAP CHIP 2200 PF 10% X7R
C123	NOTPLACED	NOTPLACED
C124	2113743N50	CAP CHIP 100 PF 5% COG
C125	2113743L41	CAP CHIP 10000 PF 10% X7R
C126	2113743L41	CAP CHIP 10000 PF 10% X7R
C127	2113743L25	CAP CHIP 2200 PF 10% X7R
C128	2113743L25	CAP CHIP 2200 PF 10% X7R
C13	2113743L41	CAP CHIP 10000 PF 10% X7R
C130	2113932E20	CAP CER CHP .10 UF 10% 16V
C131	2113743A31	CAP CHIP 1.0UF 10% X7R
C133	2113743L41	CAP CHIP 10000 PF 10% X7R
C136	2113743A31	CAP CHIP 1.0UF 10% X7R
C137	2113742H43	CAPACITOR 15PF CERAMIC HI-Q 0805 ACCU-P
C138	2113931F49	CAP CER CHP 10,000 PF 5% 50V
C14	2113743T19	CAP 10UF 16V CER 3225 X5R
C15	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C16	2113743L41	CAP CHIP 10000 PF 10% X7R
C17	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C18	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C19	2113743L41	CAP CHIP 10000 PF 10% X7R
C2	2113743T19	CAP 10UF 16V CER 3225 X5R

Ref. Des.	Part Number	Description
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
C204	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C205	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C206	2113743T19	CAP 10UF 16V CER 3225 X5R
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	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C210	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C211	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C213	2113743L17	CAP CHIP 1000 PF 10% X7R
C214	2113743N50	CAP CHIP 100 PF 5% COG
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
C219	2109720D20	CAP CHIP LOW DIST 2000 SOV
C220	2113743T19	CAP 10UF 16V CER 3225 X5R
C221	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C222	2113931F41	CAP CER CHP 4,700 PF 5% 50V
C223	2113743N46	QAP CHIP 68.0 PF 5% COG

Ref. Des.	Part Number	Description
C224	2109720D14	CAP CER CHIP LOW DIST .1 UF
C225	2109720D14	CAP CER CHIP LOW DIST .1 UF
C226	2109720D14	CAP CER CHIP LOW DIST .1 UF
C227	2109720D14	CAP CER CHIP LOW DIST .1 UF
C228	2113743Q14	CAP CHIP 3.3PF +/- .1 PF 20*40
C229	2113743N50	CAP CHIP 100 PF 5% COG
C230	2113743N40	CAP CHIP 39.0 PF 5% COG
C231	2113743L41	CAP CHIP 10000 PF 10% X7R
C232	2113743T19	CAP 10UF 16V CER 3225 X5R
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
C236	2113743L17	CAP CHIP 1000 PF 10% X7R
C242	2109720D14	CAP CER CHIP LOW DIST .1 UF
C243	2113743L01	CAP CHIP 220 PF 10% X7R
C279	2113743N12	CAP CHIP 2.7 PF +/- .25PF COG
C280	NOTPLACED	NOTPLACED
C3	2113743T19	CAP 10UF 16V CER 3225 X5R
C30	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C301	2113740L04	CAP CER CHIP 2.7 PF +/- 0.1PF
C302	2113740L05	CAP CER CHIP 3.0 PF +/- 0.1PF
C303	2104801Z13	CAP CER NPO 2.0PF 16V 1005 SMD
C304	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C305	2113743N40	CAP CHIP 39.0 PF 5% COG
C306	2104801Z09	CAP XTS 5000 RF PCB
C307	2104801Z13	CAP CER NPO 2.0PF 16V 1005 SMD

Ref. Des.	Part Number	Description
C308	2113743N40	CAP CHIP 39.0 PF 5% COG
C309	2113740L04	CAP CER CHIP 2.7 PF +/- 0.1PF
C310	2113743N40	CAP CHIP 39.0 PF 5% COG
C311	2113743N40	CAP CHIP 39.0 PF 5% COG
C312	2113932E20	CAP CER CHP .10 UF 10% 16V
C313	2113740L02	CAP CER CHIP 2.2 PF +/- 0.1PF
C314	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C315	2113743N40	CAP CHIP 39.0 PF 5% COG
C316	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C317	2113743N40	CAP CHIP 39.0 PF 5% COG
C318	2113743N40	CAP CHIP 39.0 PF 5% COG
C319	2113743N40	CAP CHIP 39.0 PF 5% COG
C320	2104801Z10	CAP CER NPO 1.5PF 16V 1005 SMD
C321	2113743N40	CAP CHIP 39.0 PF 5% COG
C322	2104801Z16	CAP CER NPO 2.7PF 16V 1005 SMD
C323	2113743N40	CAP CHIP 39.0 PF 5% COG
C324	2113743N40	CAP CHIP 39.0 PF 5% COG
C325	2113743N40	CAP CHIP 39.0 PF 5% COG
C326	2113740L02	CAP CER CHIP 2.2 PF +/- 0.1PF
C327	2113743N40	CAP CHIP 39.0 PF 5% COG
C328	2113740L02	CAP CER CHIP 2.2 PF +/- 0.1PF
C329	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C330	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C331	2113743N40	CAP CHIP 39.0 PF 5% COG
C332	2104801Z10	CAP CER NPO 1.5PF 16V 1005 SMD
C333	2104801Z16	CAP CER NPO 2.7PF 16V 1005 SMD
C334	2113743N40	CAP CHIP 39.0 PF 5% COG
C342	2113743N40	CAP CHIP 39.0 PF 5% COG
C4	2113931F49	CAP CER CHP 10,000 PF 5% 50V

Ref. Des.	Part Number	Description
C40	2113932E20	CAP CER CHP .10 UF 10% 16V
C400	2113932E20	CAP CER CHP .10 UF 10% 16V
C401	2113743N38	CAP CHIP 33.0 PF 5% COG
C402	2113928C04	CAP CER CHIP 4.7UF 6.3V/10%0805
C403	2113743N40	CAP CHIP 39.0 PF 5% COG
C404	2113743N54	CAP CHIP 150 PF 5% COG
C405	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C406	2113743N20	CAP CHIP 5.6PF +/- .5PF COG
C407	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C408	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C409	2113743N38	CAP CHIP 33.0 PF 5% COG
C410	2113743N38	CAP CHIP 33.0 PF 5% COG
C411	2113932E20	CAP CER CHP .10 UF 10% 16V
C413	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C414	2113743L25	CAP CHIP 2200 PF 10% X7R
C415	2113743N38	CAP CHIP 33.0 PF 5% COG
C416	2113743N44	CAP CHIP 56.0 PF 5% COG
C417	2113743N16	CAP CHIP 3.9PF +/- .25PF COG
C418	2113743N16	CAP CHIP 3.9PF +/- .25PF COG
C419	2113743N38	CAP CHIP 33.0 PF 5% COG
C420	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C421	2113743N50	CAP CHIP 100 PF 5% COG
C422	2113743N50	CAP CHIP 100 PF 5% COG
C423	2113743N20	CAP CHIP 5.6PF +/- .5PF COG
C5	2113930F24	C~P 7.5 PF 50V +/- .25 PF 50V
C501	2113743N54	CAP CHIP 150 PF 5% COG
C512	2113743L29	CAP CHIP 3300 PF 10% X7R

Ref. Des.	Part Number	Description
C515	2113743L41	CAP CHIP 10000 PF 10% X7R
C516	2113743L17	CAP CHIP 1000 PF 10% X7R
C517	2113743L41	CAP CHIP 10000 PF 10% X7R
C518	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C519	2113743L41	CAP CHIP 10000 PF 10% X7R
C520	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C521	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C522	2113743L41	CAP CHIP 10000 PF 10% X7R
C523	2113743N50	CAP CHIP 100 PF 5% COG
C524	2113743N50	CAP CHIP 100 PF 5% COG
C525	2113743L41	CAP CHIP 10000 PF 10% X7R
C526	2113743L25	CAP CHIP 2200 PF 10% X7R
C528	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C529	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C530	2113743L41	CAP CHIP 10000 PF 10% X7R
C532	2113743L41	CAP CHIP 10000 PF 10% X7R
C533	2113743N50	CAP CHIP 100 PF 5% COG
C534	2113743N50	CAP CHIP 100 PF 5% COG
C535	2113743N43	CAP CHIP 51.0 PF 5% COG
C536	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C537	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C539	2113743L41	CAP CHIP 10000 PF 10% X7R
C541	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C542	2113743N16	CAP CHIP 3.9PF +/- .25PF COG
C543	2113743L41	CAP CHIP 10000 PF 10% X7R

Ref. Des.	Part Number	Description
C550	2113932E20	CAP CER CHP .10 UF 10% 16V
C551	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C552	2113743L17	CAP CHIP 1000 PF 10% X7R
C553	2113743L50	CAP CHIP 33000 PF 10%
C554	2113743N30	CAP CHIP 15.0 PF 5% COG
C555	2113743N30	CAP CHIP 15.0 PF 5% COG
C556	2113743N42	CAP CHIP 47.0 PF 5% COG
C557	2113743N42	CAP CHIP 47.0 PF 5% COG
C558	2113743L41	CAP CHIP 10000 PF 10% X7R
C559	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C560	2113743N36	CAP CHIP 27.0 PF 5% COG
C570	2113743A24	CAP CHIP .330 UF 10% 16V
C571	2113743A24	CAP CHIP .330 UF 10% 16V
C6	2113930F39	CAP CER CHP 33 PF 50V 5%
C7	2113930F24	C~P 7.5 PF 50V +/- .25 PF 50V
C702	2113930F39	CAP CER CHP 33 PF 50V 5%
C703	2113930F39	CAP CER CHP 33 PF 50V 5%
C704	2113930F08	CAP 1.6 PF 50V +/- .0.1 PF 50V
C705	2113930F39	CAP CER CHP 33 PF 50V 5%
C706	2113930F39	CAP CER CHP 33 PF 50V 5%
C707	2113930F03	CAP 1.0 PF 50V +/- .0.1 PF 50V
C708	2113930F03	CAP 1.0 PF 50V +/- .0.1 PF 50V
C709	2113930F11	CAP 2.2 PF 50V +/- .25 PF 50V
C710	2113930F11	CAP 2.2 PF 50V +/- .25 PF 50V
C711	2113930F11	CAP 2.2 PF 50V +/- .25 PF 50V

Ref. Des.	Part Number	Description
C712	2113930F11	CAP 2.2 PF 50V +/- .25 PF 50V
C713	2113930F39	CAP CER CHP 33 PF 50V 5%
C714	2113930F07	CAP 1.5 PF 50V +/- 0.1 PF 50V
C716	2113930F27	CAP CER CHP 10 PF 50V 5%
C8	2113743S01	CAP CER CHIP 1.0 UF 10% 16V
C9	2113743N50	CAP CHIP 100 PF 5% COG
C919	2113743L41	CAP CHIP 10000 PF 10% X7R
C923	2113930F03	CAP 1.0 PF 50V +/- 0.1 PF 50V
C924	2113930F03	CAP 1.0 PF 50V +/- 0.1 PF 50V
D1	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D101	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D102	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D104	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
D401	4813825A19	DIODE SCHOTTKY BARRIER SERIES
D501	4809877C08	DIODE VARACTOR 1SV279 SMD
D550	4809877C08	DIODE VARACTOR 1SV279 SMD
D701	4805656W24	DIODE, PIN RF
D702	4805656W24	DIODE, PIN RF

Ref. Des.	Part Number	Description
E1	2405688Z01	INDUCTOR FERRITE BEAD
E101	2405688Z01	INDUCTOR FERRITE BEAD
E105	2480640Z01	SURFACE MOUNT FERRITE BEAD
E4	2460591K40	COIL AIR WOUND INDUC 59.71
E5	2480640Z01	SURFACE MOUNT FERRITE BEAD
E501	2480640Z01	SURFACE MOUNT FERRITE BEAD
E502	2480640Z01	SURFACE MOUNT FERRITE BEAD
E503	2480640Z01	SURFACE MOUNT FERRITE BEAD
E504	2480640Z01	SURFACE MOUNT FERRITE BEAD
E505	2480640Z01	SURFACE MOUNT FERRITE BEAD
E506	2480640Z01	SURFACE MOUNT FERRITE BEAD
E507	2480640Z01	SURFACE MOUNT FERRITE BEAD
E508	2480640Z01	SURFACE MOUNT FERRITE BEAD
E509	2480640Z01	SURFACE MOUNT FERRITE BEAD
E519	2480640Z01	SURFACE MOUNT FERRITE BEAD
E520	2480640Z01	SURFACE MOUNT FERRITE BEAD
E6	2409154M48	IND CER MLTILYR 1.0NH 1005
E7	2409154M48	IND CER MLTILYR 1.0NH 1005
F901	6505757V02	FUSE SURFACE MT 2AMP
FL200	9185130D01	FLTR SW CAP 3 POLE BUTTERW
FL401	9185004D01	LC FLTR, MULTILAYER CERAMIC
FL402	9185004D01	LC FLTR, MULTILAYER CERAMIC
FL403	4885631B01	XTAL FILT 3 POLE 109.65 MOTORO
G1	3905643V01	CONTACT ANT GRD

Ref. Des.	Part Number	Description
G12	3905643V01	CONTACT ANT GRD
G2	3905643V01	CONTACT ANT GRD
G3	3905643V01	CONTACT ANT GRD
G6	3905643V01	CONTACT ANT GRD
G7	3905643V01	CONTACT ANT GRD
G8	3905643V01	CONTACT ANT GRD
G9	3905643V01	CONTACT ANT GRD
J1	NOTPLACED	NOTPLACED
J2	0905304Z01	CONN COAXIAL SMT
L1	2486085A04	COIL, 6.8 UH POWER INDUCTOR
L101	2460591K40	COIL AIR WOUND INDUC 59.71
L103	2413926H24	INDUCTOR MULITI-LAYER CERAMIC CHIP
L104	2413926H24	INDUCTOR MULITI-LAYER CERAMIC CHIP
L105	2413926H06	IND CHIP 3.3 NH +/- 0.3NH
L106	2413926H09	IND CHIP 5.6 NH +/- 0.3NH
L107	2413926F02	IND 1.5 NH +/- 0.3 NH
L108	2413926H24	INDUCTOR MULITI-LAYER CERAMIC CHIP
L109	2413926H12	CHIP INDUCTOR 10.0NH
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%
L206	2462587V21	CHIP IND 6.8 NH 5% 0805
L207	2462587Q47	IND CHIP 1,000 NH 10%
L208	2462587Q20	IND CHIP 2,200 NH 20%
L301	2409377M36	IND CHIP WW 220 NH 5% 1608
L302	2409377M36	IND CHIP WW 220 NH 5% 1608
L303	2409377M36	IND CHIP WW 220 NH 5% 1608
L304	2409377M36	IND CHIP WW 220 NH 5% 1608
L305	2462587V24	CHIP IND 15 NH 5% 0805
L306	2462587V22	CHIP IND 8.2 NH 5% 0805

Ref. Des.	Part Number	Description
L307	2409377M36	IND CHIP WW 220 NH 5% 1608
L308	2409377M36	IND CHIP WW 220 NH 5% 1608
L309	2409377M36	IND CHIP WW 220 NH 5% 1608
L310	2462587V25	CHIP IND 18 NH 5% 0805
L311	2409377M36	IND CHIP WW 220 NH 5% 1608
L312	2409377M36	IND CHIP WW 220 NH 5% 1608
L400	2409154M48	IND CER MLTILYR 1.0NH 1005
L401	2409154M12	IND MTLILYR 8.2NH 1005
L402	2409377M14	IND CHIP WW 68 NH 5% 1608
L403	2409154M14	IND CER MLTILYR 12.0NH 1005
L404	2409154M12	IND MTLILYR 8.2NH 1005
L406	2409154M11	IND MTLILYR 6.8NH 1005
L407	2409154M23	IND CER MLTILYR 68.0NH 1005
L408	2409154M11	IND MTLILYR 6.8NH 1005
L409	2462587V32	CHIP IND 68 NH 5% 0805
L410	2404574Z15	IND CHIP WW 330NH 2% 2012 SMD
L411	2404574Z15	IND CHIP WW 330NH 2% 2012 SMD
L412	NOTPLACED	NOTPLACED
L501	2405769X05	COIL INDUCTOR
L502	2405769X05	COIL INDUCTOR
L503	2462587N76	CHIP IND 4700 NH 5%
L547	2462587V38	CHIP IND 220 NH 5% 0805
L550	2462587V35	CHIP IND 120 NH 5% 0805
L702	2462587V36	CHIP IND 150 NH 5% 0805
L703	2460591A69	COIL AIR WOUND INDUC 8.72
L704	2460591A69	COIL AIR WOUND INDUC 8.72
L705	2460591B22	COIL AIR WOUND INDUC 8.67
L706	2413926G15	IND 47.0 NH 5%
L707	2413926G15	IND 47.0 NH 5%

Ref. Des.	Part Number	Description
L708	2460591A69	COIL AIR WOUND INDUC 8.72
P1	NOTPLACED	NOTPLACED
PCB	8485013D01	BD PC RF XCVR
Q1	4813821A47	TSTR P-CH HDTMOS 20V
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
Q106	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q107	5185633C10	MODE 800 MHz RING
Q108	4805128M12	TSTR SOT BCW 60B (RH)
Q109	4805128M12	TSTR SOT BCW 60B (RH)
Q2	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q201	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q301	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q302	4805218N11	XISTOR SOT RH BST82
Q303	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q304	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q305	4805218N11	XISTOR SOT RH BST82
Q306	4805218N11	XISTOR SOT RH BST82
Q307	4805218N11	XISTOR SOT RH BST82
Q308	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q309	4805218N11	XISTOR SOT RH BST82
Q310	4813821A47	TSTR P-CH HDTMOS 20V
Q401	4805585Q19	TRANSISTOR
Q501	4805128M19	TSTR SOT23 MMBTA13 RH
Q502	4805218N63	RF TRANS SOT 323 BFG67W
Q66	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q99	4813821A47	TSTR P-CH HDTMOS 20V
R1	0662057N23	RES. CHIP 100K 5% 20X40

Ref. Des.	Part Number	Description
R101	0662057N23	RES. CHIP 100K 5% 20X40
R103	0662057M58	RES. CHIP 220 5% 20X40
R104	0662057M58	RES. CHIP 220 5% 20X40
R105	0662057N03	RES. CHIP 15K 5% 20X40
R106	0662057M98	RES. CHIP 10K 5% 20X40
R107	0662057M90	RES. CHIP 4700 5% 20X40
R108	0662057M90	RES. CHIP 4700 5% 20X40
R109	0662057M50	RES. CHIP 100 5% 20X40
R110	0662057M50	RES. CHIP 100 5% 20X40
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
R117	0662057M26	RES. CHIP 10 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
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
R130	0662057N23	RES. CHIP 100K 5% 20X40
R131	0662057M98	RES. CHIP 10K 5% 20X40
R132	0662057M98	RES. CHIP 10K 5% 20X40
R201	0662057N11	RES. CHIP 33K 5% 20X40
R202	0662057M81	RES. CHIP 2000 5% 20X40
R204	0662057N13	RES. CHIP 39K 5% 20X40
R205	0662057N07	RES. CHIP 22K 5% 20X40
R207	0662057M40	RES. CHIP 39 5% 20X40
R208	0662057N11	RES. CHIP 33K 5% 20X40
R209	0662057M98	RES. CHIP 10K 5% 20X40
R210	0662057M62	RES. CHIP 330 5% 20X40
R211	0662057M74	RES. CHIP 1000 5% 20X40
R212	0662057M52	RES. CHIP 120 5% 20X40
R213	0662057M98	RES. CHIP 10K 5% 20X40
R214	0662057M74	RES. CHIP 1000 5% 20X40
R215	0662057M98	RES. CHIP 10K 5% 20X40

Ref. Des.	Part Number	Description
R216	0662057M96	RES. CHIP 8200 5% 20X40
R217	0662057M81	RES. CHIP 2000 5% 20X40
R220	NOTPLACED	NOTPLACED
R301	0662057N07	RES. CHIP 22K 5% 20X40
R302	0662057N07	RES. CHIP 22K 5% 20X40
R303	0662057M26	RES. CHIP 10 5% 20X40
R304	0662057M58	RES. CHIP 220 5% 20X40
R305	0662057N16	RES. CHIP 51K 5% 20X40
R306	0662057M58	RES. CHIP 220 5% 20X40
R307	0662057M58	RES. CHIP 220 5% 20X40
R308	0662057N07	RES. CHIP 22K 5% 20X40
R309	0662057N06	RES. CHIP 20K 5% 20X40
R310	0662057N07	RES. CHIP 22K 5% 20X40
R311	0662057M34	RES. CHIP 22 5% 20X40
R313	0662057M34	RES. CHIP 22 5% 20X40
R314	0662057M58	RES. CHIP 220 5% 20X40
R315	0662057M38	RES. CHIP 33 5% 20X40
R316	0662057M42	RES. CHIP 47 5% 20X40
R317	0662057N11	RES. CHIP 33K 5% 20X40
R318	0662057N16	RES. CHIP 51K 5% 20X40
R319	0662057N16	RES. CHIP 51K 5% 20X40
R320	0662057N16	RES. CHIP 51K 5% 20X40
R321	0662057M34	RES. CHIP 22 5% 20X40
R322	0662057N07	RES. CHIP 22K 5% 20X40
R323	0662057M42	RES. CHIP 47 5% 20X40
R324	0662057N16	RES. CHIP 51K 5% 20X40
R325	0662057N07	RES. CHIP 22K 5% 20X40
R326	0662057M34	RES. CHIP 22 5% 20X40
R327	0662057M58	RES. CHIP 220 5% 20X40
R328	0662057N16	RES. CHIP 51K 5% 20X40
R329	0662057M52	RES. CHIP 120 5% 20X40
R340	0662057M92	RES. CHIP 5600 5% 20X40
R399	0662057N03	RES. CHIP 15K 5% 20X40
R4	2113743L17	CAP CHIP 1000 PF 10% X7R
R401	0662057M59	RES CHIP 240 5% 20X40
R403	0662057M84	RES. CHIP 2700 5% 20X40
R404	0662057M94	RES. CHIP 6800 5% 20X40
R405	0662057M90	RES. CHIP 4700 5% 20X40

Ref. Des.	Part Number	Description
R406	0662057M66	RES. CHIP 470 5% 20X40
R412	0662057M48	RES. CHIP 82 5% 20X40
R415	0662057M59	RES CHIP 240 5% 20X40
R501	0662057N23	RES. CHIP 100K 5% 20X40
R502	0662057M56	RES. CHIP 180 5% 20X40
R503	0662057M98	RES. CHIP 10K 5% 20X40
R504	0662057M98	RES. CHIP 10K 5% 20X40
R505	0662057M95	RES. CHIP 7500 5% 20X40
R506	0662057M98	RES. CHIP 10K 5% 20X40
R507	0662057M81	RES. CHIP 2000 5% 20X40
R508	0662057M62	RES. CHIP 330 5% 20X40
R509	0662057M42	RES. CHIP 47 5% 20X40
R510	0662057N23	RES. CHIP 100K 5% 20X40
R511	0662057N23	RES. CHIP 100K 5% 20X40
R512	0662057M98	RES. CHIP 10K 5% 20X40
R513	0662057M98	RES. CHIP 10K 5% 20X40
R514	0662057M64	RES. CHIP 390 5% 20X40
R6	0662057M98	RES. CHIP 10K 5% 20X40
R7	0662057M98	RES. CHIP 10K 5% 20X40
R701	0662057N15	RES. CHIP 47K 5% 20X40
R702	0662057A29	CHIP RES 150 OHMS 5%
R703	0662057A29	CHIP RES 150 OHMS 5%
R704	0662057N23	RES. CHIP 100K 5% 20X40
SH201	2685787B01	SHLD FRAC-N
SH202	2685787B01	SHLD FRAC-N
SH301	2685297D01	SHLD VCO
SH302	2685298D01	SHLD VCO BUFFER
SH401	2685627A02	SHLD DUAL INDUCTOR
SH402	2685627A02	SHLD DUAL INDUCTOR
SH403	2685882A01	SHLD VCO TANK
SH501	2685298D01	SHLD VCO BUFFER
SH700	2685762D01	SHEILD HARMONIC FILTER
T401	2580541Z02	BALUN TRANSFORMER (NEW)
T402	2505515V07	XFMR JEDI MIXER 25:1
T403	2580541Z02	BALUN TRANSFORMER (NEW)
TH1	NOTPLACED	NOTPLACED

Ref. Des.	Part Number	Description
U1	5185353D13	IC MINI SO-8 HI PRECISION REG 5V
U101	5185633C24	MODULE DIRECT COUPLER
U102	5185130C65	IC VHF/UHF/800 MHZ LDMOS DRIVER
U103	5185963A15	IC TEMPERTURE SENSOR 1M50C
U104	5185765B26	IC PWR CTRL IN MOS20
U105	5185368C19	IC QUAD 10 BIT A/D CONV
U106	5185963A60	OP AMP IC
U2	5185353D14	IC SOT23-5 HI PRECISION REG 3V
U201	5186358E01	IC ANALOG OP-AMP CLC450
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
U401	5185130C91	IC MIXER RF SOIC 10
U500	5185963A85	IC-ABACUS III-LP
VR1	4813830A33	DIODE 20V 5% 225MW MMBZ5250B_
VR2	4813830A15	DIODE 5.6V 5% 225MW MMBZ5232B_
W02	NOTPLACED	NOTPLACED
W021	NOTPLACED	NOTPLACED
W1	NOTPLACED	NOTPLACED
W10	NOTPLACED	NOTPLACED
W11	NOTPLACED	NOTPLACED
W12	NOTPLACED	NOTPLACED
W13	NOTPLACED	NOTPLACED
W14	NOTPLACED	NOTPLACED
W15	NOTPLACED	NOTPLACED
W16	NOTPLACED	NOTPLACED
W17	NOTPLACED	NOTPLACED
W18	NOTPLACED	NOTPLACED
W19	NOTPLACED	NOTPLACED

Ref. Des.	Part Number	Description
W2	NOTPLACED	NOTPLACED
W20	NOTPLACED	NOTPLACED
W21	NOTPLACED	NOTPLACED
W22	NOTPLACED	NOTPLACED
W23	NOTPLACED	NOTPLACED
W3	NOTPLACED	NOTPLACED
W4	NOTPLACED	NOTPLACED
W5	NOTPLACED	NOTPLACED
W6	NOTPLACED	NOTPLACED
W7	NOTPLACED	NOTPLACED
W8	NOTPLACED	NOTPLACED
W9	NOTPLACED	NOTPLACED
Y200	4802245J68	OSC REF 16.8 MHZ 1.5 PPM
Y301	4805911Z16	IND COAXIAL CERAMIC SMD
Y302	4805911Z17	IND COAXIAL CERAMIC SMD
Y303	4805911Z14	IND COAXIAL CERAMIC 1100 MHZ

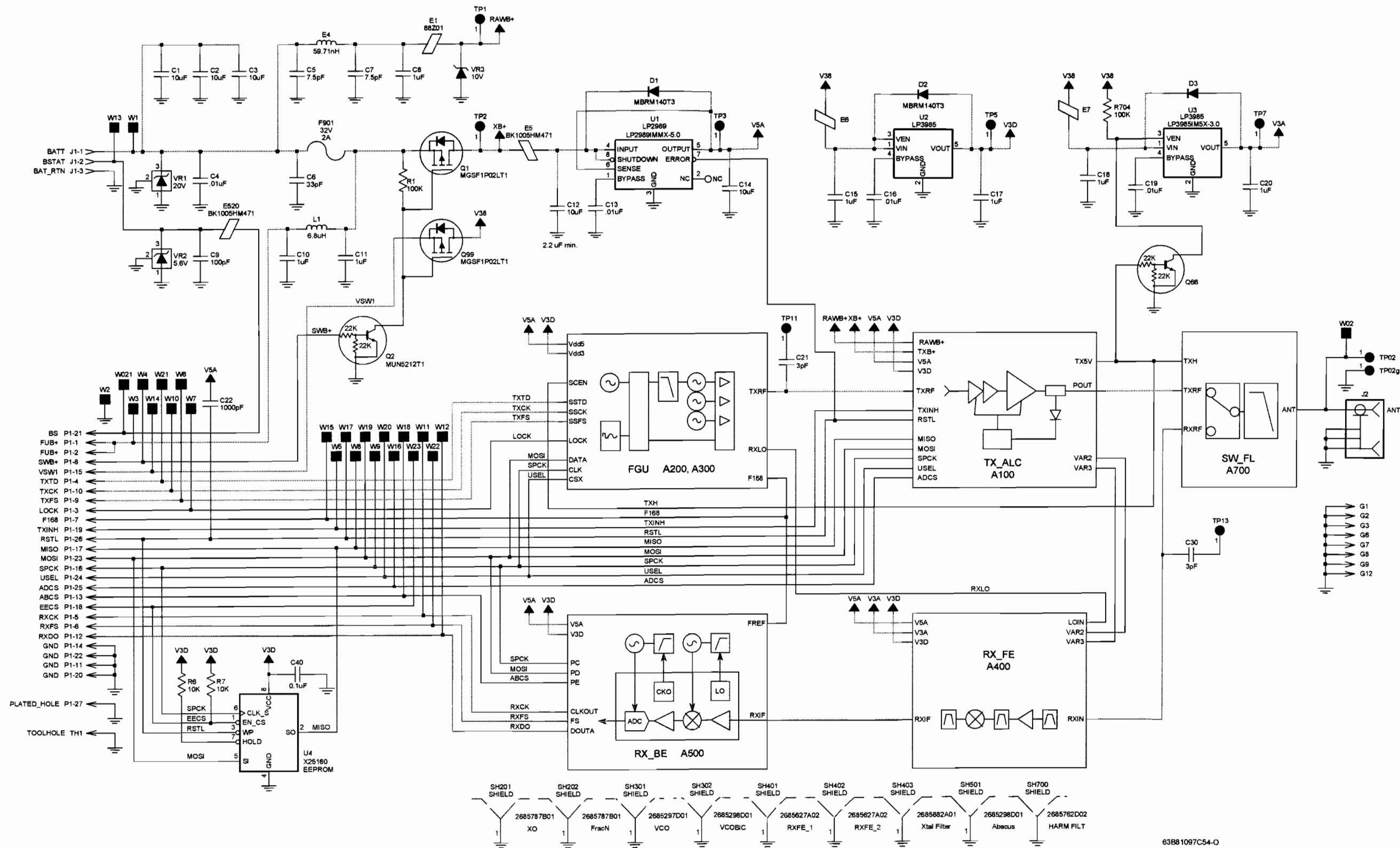


Figure 8-10. NUF3577C 700-800 MHz Transceiver (RF) Board Overall Circuit Schematic

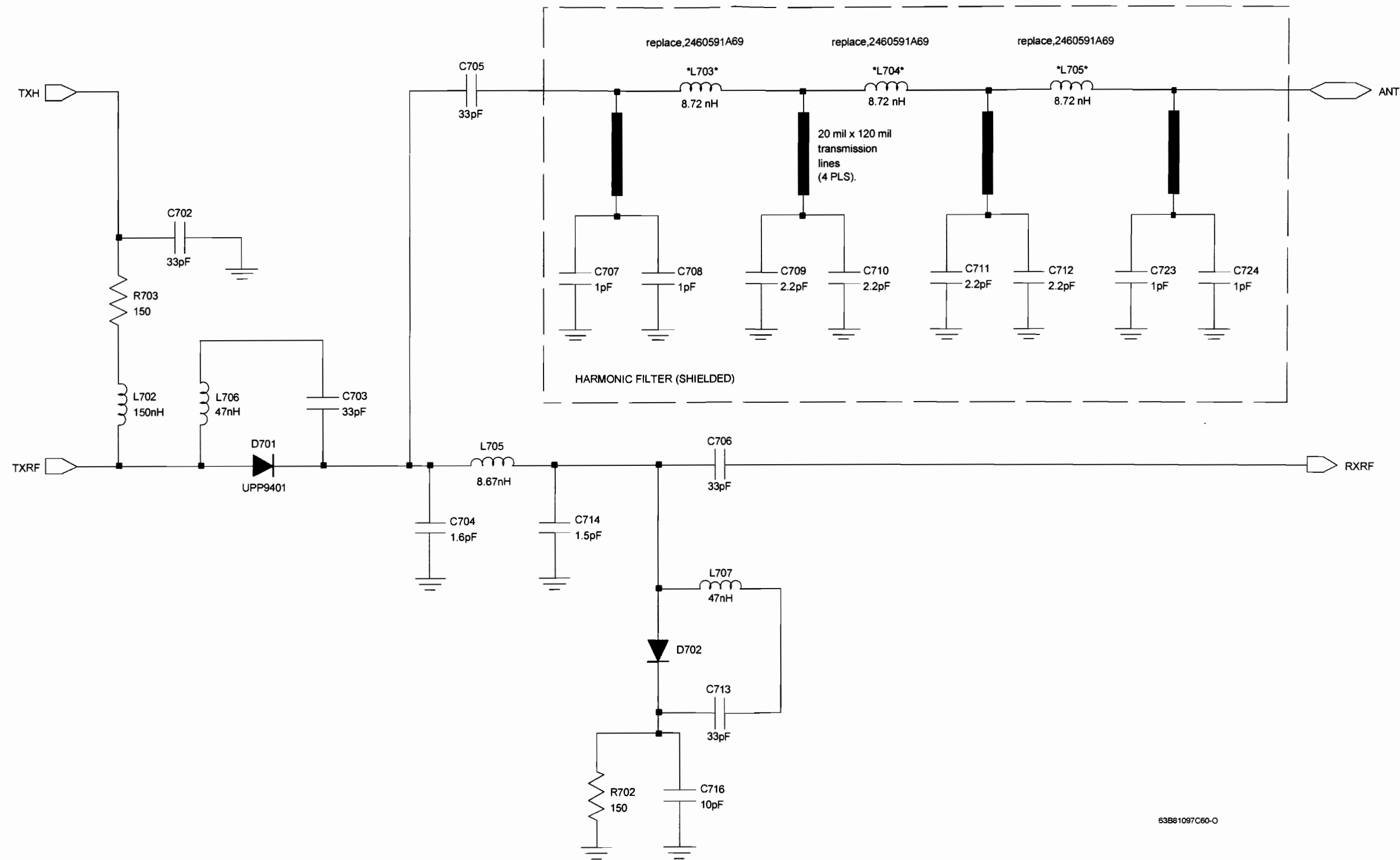
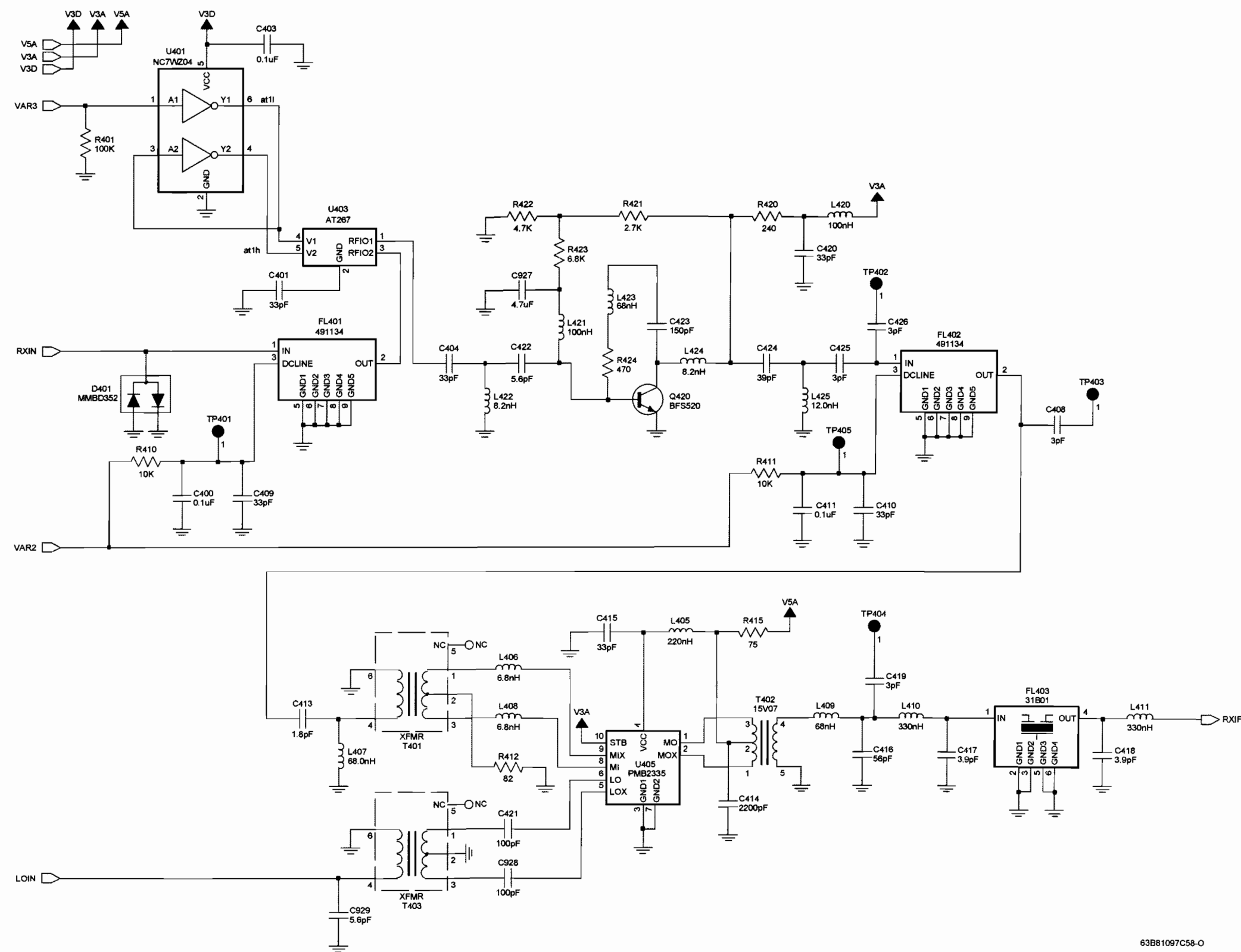
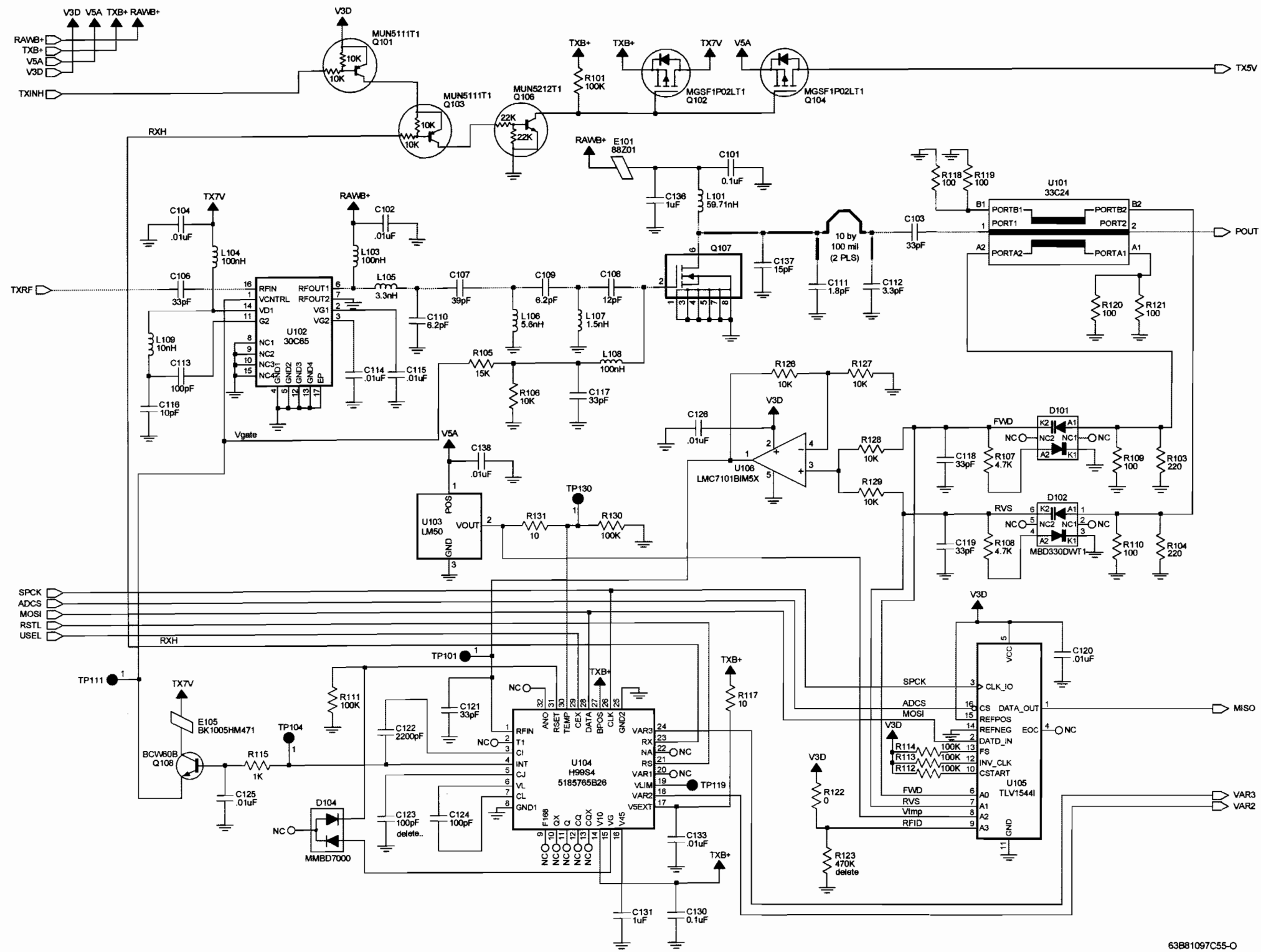


Figure 8-11. NUF3577C 700-800 MHz Antenna Switch and Harmonic Filter Circuits



63B81097C58-O

Figure 8-12. NUF3577C 700-800 MHz Receiver Front End Circuit



63B81097C55-O

Figure 8-14. NUF3577C 700–800 MHz Transmitter and Automatic Level Control Circuits

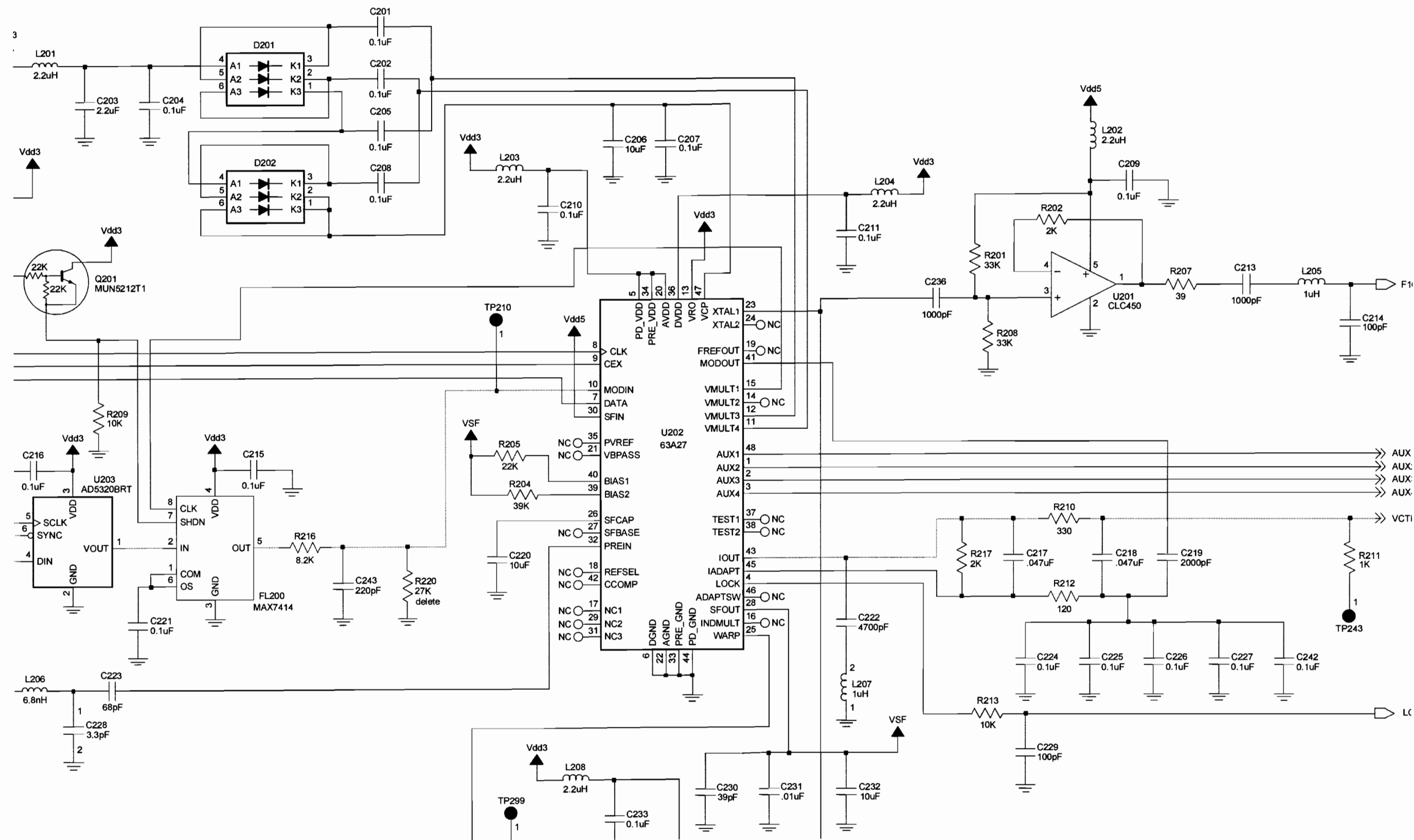


Figure 8-15. NUF3577C 700-800 MHz Frequency Generation Unit (Synthesizer) Circuit

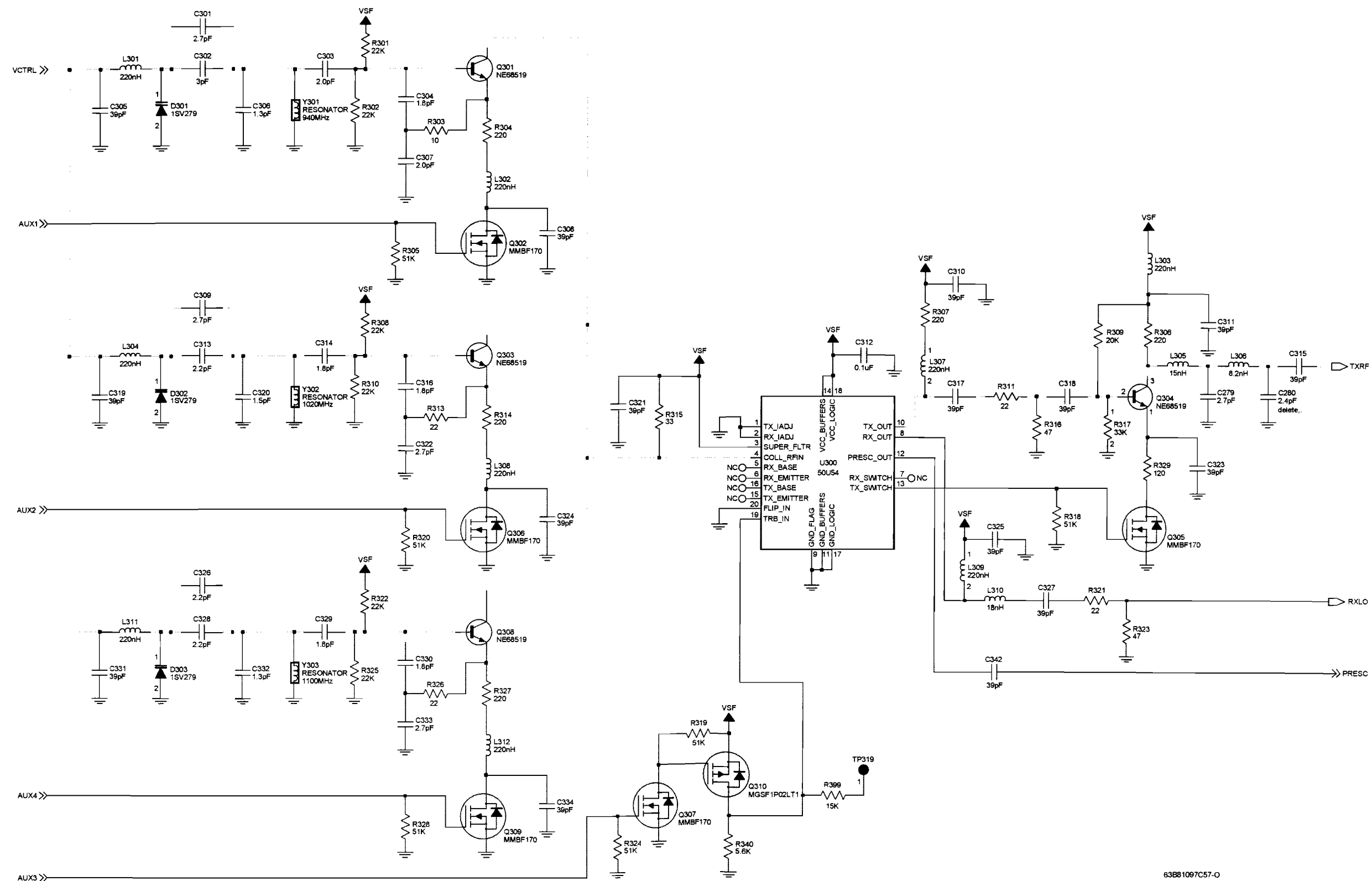


Figure 8-16. NUF3577C 700–800 MHz Frequency Generation Unit (VCO) Circuit

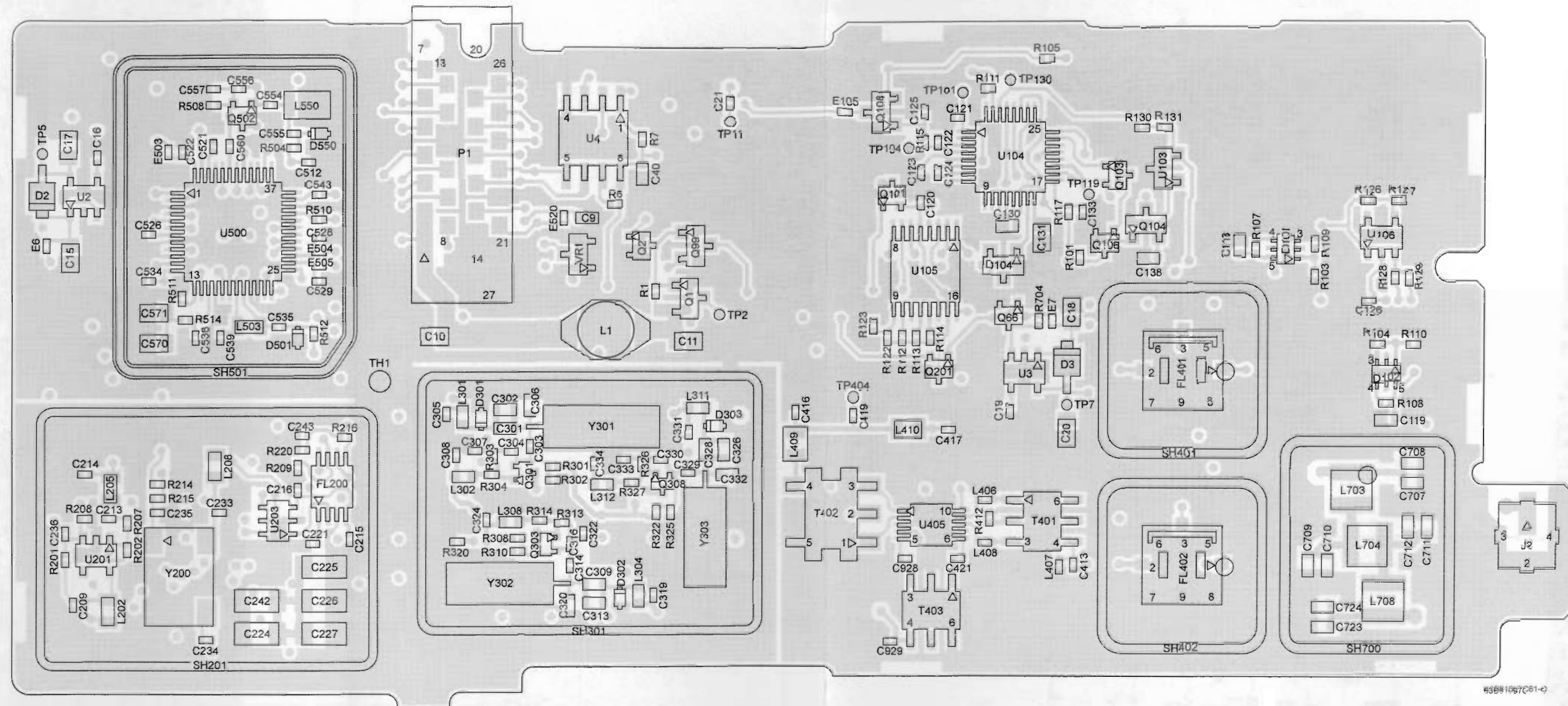


Figure 8-17. NUF3577C 700–800 MHz Transceiver (RF) Board Layout—Side 1



Figure 8-18. NUF3577C 700–800 MHz Transceiver (RF) Board Layout—Side 2

NUF3577C 700-800 MHz Transceiver (RF)
Board Parts List

Ref. Des.	Part Number	Description
C1	2113743T19	CAP 10UF 16V CER 3225 X5R
C10	2113743A31	CAP CHIP 1.0 UF 10% X7R
C101	2113743E20	CAP CHIP .10 UF 10%
C102	2113741F49	CAP CHIP CL2 X7R REEL 10000
C103	2113740F39	CAP CHIP REEL CL1 +/-30 33
C104	2113741F49	CAP CHIP CL2 X7R REEL 10000
C106	2113740F39	CAP CHIP REEL CL1 +/-30 33
C107	2113740F41	CAP CHIP REEL CL1 +/-30 39
C108	2113740F29	CAP CHIP REEL CL1 +/-30 12
C109	2113740F22	CAP CHIP REEL CL1 +/-30 6.2
C11	2113743A31	CAP CHIP 1.0 UF 10% X7R
C110	2113740F22	CAP CHIP REEL CL1 +/-30 6.2
C111	2113740F09	CAP CHIP REEL CL1 +/-30 1.8
C112	2113740F15	CAP CHIP REEL CL1 +/-30 3.3
C113	2113740F51	CAP CHIP REEL CL1 +/-30 100
C114	2113741F49	CAP CHIP CL2 X7R REEL 10000
C115	2113741F49	CAP CHIP CL2 X7R REEL 10000
C116	2113740F27	CAP CHIP REEL CL1 +/-30 10
C117	2113740F39	CAP CHIP REEL CL1 +/-30 33
C118	2113740F39	CAP CHIP REEL CL1 +/-30 33
C119	2113740F39	CAP CHIP REEL CL1 +/-30 33
C12	2113743T19	CAP 10UF 16V CER 3225 X5R
C120	2113743L41	CAP CHIP 10000 PF 10% X7R

Ref. Des.	Part Number	Description
C121	2113743N38	CAP CHIP 33.0 PF 5% COG
C122	2113743L25	CAP CHIP 2200 PF 10% X7R
C123	NOTPLACED	64AM DUMMY PART NUMBER
C124	2113743N50	CAP CHIP 100 PF 5% COG
C125	2113743L41	CAP CHIP 10000 PF 10% X7R
C126	2113743L41	CAP CHIP 10000 PF 10% X7R
C13	2113743L41	CAP CHIP 10000 PF 10% X7R
C130	2113743E20	CAP CHIP .10 UF 10%
C131	2113743A31	CAP CHIP 1.0 UF 10% X7R
C133	2113743L41	CAP CHIP 10000 PF 10% X7R
C136	2113743A31	CAP CHIP 1.0 UF 10% X7R
C137	2113742H43	CAP 15.0 PF 5%
C138	2113741F49	CAP CHIP CL2 X7R REEL 10000
C14	2113743T19	CAP 10UF 16V CER 3225 X5R
C15	2113743A31	CAP CHIP 1.0 UF 10% X7R
C16	2113743L41	CAP CHIP 10000 PF 10% X7R
C17	2113743A31	CAP CHIP 1.0 UF 10% X7R
C18	2113743A31	CAP CHIP 1.0 UF 10% X7R
C19	2113743L41	CAP CHIP 10000 PF 10% X7R
C2	2113743T19	CAP 10UF 16V CER 3225 X5R
C20	2113743A31	CAP CHIP 1.0 UF 10% X7R
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	2113743T19	CAP 10UF 16V CER 3225 X5R

Ref. Des.	Part Number	Description
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	2113743N13	CAP CHIP 3.0 PF +/-25PF COG
C210	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C211	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C213	2113743L17	CAP CHIP 1000 PF 10% X7R
C214	2113743N50	CAP CHIP 100 PF 5% COG
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
C219	2109720D20	CAP CHIP LOW DIST 2000 SOV
C22	2113743L17	CAP CHIP 1000 PF 10% X7R
C220	2113743T19	CAP 10UF 16V CER 3225 X5R
C221	2113743M24	CAP CHIP 100000 PF +80-20% Y5V
C222	2113741F41	CAP CHIP CL2 X7R REEL 4700
C223	2113743N46	QAP CHIP 68.0 PF 5% COG
C224	2109720D14	CAP CER CHIP LOW DIST .1 UF
C225	2109720D14	CAP CER CHIP LOW DIST .1 UF
C226	2109720D14	CAP CER CHIP LOW DIST .1 UF
C227	2109720D14	CAP CER CHIP LOW DIST .1 UF
C228	2113743Q14	CAP CHIP 3.3 PF +/-1PF 20*40
C229	2113743N50	CAP CHIP 100 PF 5% COG

Ref. Des.	Part Number	Description
C230	2113743N40	CAP CHIP 39.0 PF 5% COG
C231	2113743L41	CAP CHIP 10000 PF 10% X7R
C232	2113743T19	CAP 10UF 16V CER 3225 X5R
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
C236	2113743L17	CAP CHIP 1000 PF 10% X7R
C242	2109720D14	CAP CER CHIP LOW DIST .1 UF
C243	2113743L01	CAP CHIP 220 PF 10% X7R
C279	2113743N12	CAP CHIP 2.7 PF +/-25PF COG
C280	NOTPLACED	64AM DUMMY PART NUMBER
C3	2113743T19	CAP 10UF 16V CER 3225 X5R
C30	2113743N13	CAP CHIP 3.0 PF +/-25PF COG
C301	2113740L04	CAP CER CHIP 2.7 PF +/-0.1PF
C302	2113740L05	CAP CER CHIP 3.0 PF +/-0.1PF
C303	2104801Z13	CAP CER NPO 2.0PF 16V 1005 SMD
C304	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C305	2113743N40	CAP CHIP 39.0 PF 5% COG
C306	2113740F06	CAP CHIP REEL CL1 +/-30 1.3
C307	2104801Z13	CAP CER NPO 2.0PF 16V 1005 SMD
C308	2113743N40	CAP CHIP 39.0 PF 5% COG
C309	2113740L04	CAP CER CHIP 2.7 PF +/-0.1PF
C310	2113743N40	CAP CHIP 39.0 PF 5% COG
C311	2113743N40	CAP CHIP 39.0 PF 5% COG
C312	2113743E20	CAP CHIP .10 UF 10%
C313	2113740L02	CAP CER CHIP 2.2 PF +/-0.1PF

Ref. Des.	Part Number	Description
C314	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C315	2113743N40	CAP CHIP 39.0 PF 5% COG
C316	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C317	2113743N40	CAP CHIP 39.0 PF 5% COG
C318	2113743N40	CAP CHIP 39.0 PF 5% COG
C319	2113743N40	CAP CHIP 39.0 PF 5% COG
C320	2113740F07	CAP CHIP REEL CL1 +/-30 1.5
C321	2113743N40	CAP CHIP 39.0 PF 5% COG
C322	2104801Z16	CAP CER NPO 2.7PF 16V 1005 SMD
C323	2113743N40	CAP CHIP 39.0 PF 5% COG
C324	2113743N40	CAP CHIP 39.0 PF 5% COG
C325	2113743N40	CAP CHIP 39.0 PF 5% COG
C326	2113740L02	CAP CER CHIP 2.2 PF +/- 0.1PF
C327	2113743N40	CAP CHIP 39.0 PF 5% COG
C328	2113740L02	CAP CER CHIP 2.2 PF +/- 0.1PF
C329	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C330	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C331	2113743N40	CAP CHIP 39.0 PF 5% COG
C332	2113740F06	CAP CHIP REEL CL1 +/-30 1.3
C333	2104801Z16	CAP CER NPO 2.7PF 16V 1005 SMD
C334	2113743N40	CAP CHIP 39.0 PF 5% COG
C342	2113743N40	CAP CHIP 39.0 PF 5% COG
C4	2113741F49	CAP CHIP CL2 X7R REEL 10000
C40	2113743E20	CAP CHIP .10 UF 10%
C400	2113743E20	CAP CHIP .10 UF 10%
C401	2113743N38	CAP CHIP 33.0 PF 5% COG
C403	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C404	2113743N38	CAP CHIP 33.0 PF 5% COG
C408	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C409	2113743N38	CAP CHIP 33.0 PF 5% COG

Ref. Des.	Part Number	Description
C410	2113743N38	CAP CHIP 33.0 PF 5% COG
C411	2113743E20	CAP CHIP .10 UF 10%
C413	2104801Z12	CAP CER NPO 1.8PF 16V 1005 SMD
C414	2113743L25	CAP CHIP 2200 PF 10% X7R
C415	2113743N38	CAP CHIP 33.0 PF 5% COG
C416	2113743N44	CAP CHIP 56.0 PF 5% COG
C417	2113743N16	CAP CHIP 3.9 PF +/- .25PF COG
C418	2113743N16	CAP CHIP 3.9 PF +/- .25PF COG
C419	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C420	2113743N38	CAP CHIP 33.0 PF 5% COG
C421	2113743N50	CAP CHIP 100 PF 5% COG
C422	2113743N20	CAP CHIP 5.6 PF +/- .5PF COG
C423	2113743N54	CAP CHIP 150 PF 5% COG
C424	2113743N40	CAP CHIP 39.0 PF 5% COG
C425	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C426	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C5	2113740F24	CAP CHIP REEL CL1 +/-30 7.5
C50	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C501	2113743N54	CAP CHIP 150 PF 5% COG
C512	2113743L29	CAP CHIP 3300 PF 10% X7R
C515	2113743L41	CAP CHIP 10000 PF 10% X7R
C516	2113743L17	CAP CHIP 1000 PF 10% X7R
C517	2113743L41	CAP CHIP 10000 PF 10% X7R
C518	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C519	2113743L41	CAP CHIP 10000 PF 10% X7R
C520	2113928N01	CAP CER CHIP 0.1UF 10% 6.3

Ref. Des.	Part Number	Description
C521	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C522	2113743L41	CAP CHIP 10000 PF 10% X7R
C523	2113743N50	CAP CHIP 100 PF 5% COG
C524	2113743N50	CAP CHIP 100 PF 5% COG
C525	2113743L41	CAP CHIP 10000 PF 10% X7R
C526	2113743L25	CAP CHIP 2200 PF 10% X7R
C528	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C529	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C530	2113743L41	CAP CHIP 10000 PF 10% X7R
C532	2113743L41	CAP CHIP 10000 PF 10% X7R
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	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C539	2113743L41	CAP CHIP 10000 PF 10% X7R
C541	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C542	2113743N16	CAP CHIP 3.9 PF +/- .25PF COG
C543	2113743L41	CAP CHIP 10000 PF 10% X7R
C550	2113743E20	CAP CHIP .10 UF 10%
C551	2113743N13	CAP CHIP 3.0 PF +/- .25PF COG
C552	2113743L17	CAP CHIP 1000 PF 10% X7R
C553	2113743L50	CAP CHIP 33000 PF 10%
C554	2113743N30	CAP CHIP 15.0 PF 5% COG
C555	2113743N30	CAP CHIP 15.0 PF 5% COG
C556	2113743N42	CAP CHIP 47.0 PF 5% COG
C557	2113743N42	CAP CHIP 47.0 PF 5% COG

Ref. Des.	Part Number	Description
C558	2113743L41	CAP CHIP 10000 PF 10% X7R
C559	2113928N01	CAP CER CHIP 0.1UF 10% 6.3
C560	2113743N36	CAP CHIP 27.0 PF 5% COG
C570	2113743A24	CAP CHIP .330 UF 10% 16V
C571	2113743A24	CAP CHIP .330 UF 10% 16V
C6	2113740F39	CAP CHIP REEL CL1 +/-30 33
C7	2113740F24	CAP CHIP REEL CL1 +/-30 7.5
C702	2113740F39	CAP CHIP REEL CL1 +/-30 33
C703	2113740F39	CAP CHIP REEL CL1 +/-30 33
C704	2113740F08	CAP CHIP REEL CL1 +/-30 1.6
C705	2113740F39	CAP CHIP REEL CL1 +/-30 33
C706	2113740F39	CAP CHIP REEL CL1 +/-30 33
C707	2113740F03	CAP CHIP REEL CL1 +/-30 1.0
C708	2113740F03	CAP CHIP REEL CL1 +/-30 1.0
C709	2113740F11	CAP CHIP REEL CL1 +/-30 2.2
C710	2113740F11	CAP CHIP REEL CL1 +/-30 2.2
C711	2113740F11	CAP CHIP REEL CL1 +/-30 2.2
C712	2113740F11	CAP CHIP REEL CL1 +/-30 2.2
C713	2113740F39	CAP CHIP REEL CL1 +/-30 33
C714	2113740F07	CAP CHIP REEL CL1 +/-30 1.5
C716	2113740F27	CAP CHIP REEL CL1 +/-30 10
C723	2113740F03	CAP CHIP REEL CL1 +/-30 1.0
C724	2113740F03	CAP CHIP REEL CL1 +/-30 1.0
C8	2113743A31	CAP CHIP 1.0 UF 10% X7R

Ref. Des.	Part Number	Description
C9	2113740F51	CAP CHIP REEL CL1 +/-30 100
C927	2113928C04	CAP CER CHIP 4.7UF 6.3V10%0805
C928	2113743N50	CAP CHIP 100 PF 5% COG
C929	2113743N20	CAP CHIP 5.6 PF + -.5PF COG
D1	4813833A20	DIODE SCHOTTKY 1A 40V PWRMITE
D101	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D102	4802197J83	DUAL SHOTTKY DIODE MBD330DWT1
D104	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
D401	4813825A19	DIODE SCHOTTKY BARRIER SERIES
D501	4809877C08	DIODE VARACTOR 1SV279 SMD
D550	4809877C08	DIODE VARACTOR 1SV279 SMD
D701	4805656W24	DIODE, PIN RF
D702	4805656W24	DIODE, PIN RF
E1	2405688Z01	INDUCTOR FERRITE BEAD
E101	2405688Z01	INDUCTOR FERRITE BEAD
E105	2480640Z01	SURFACE MOUNT FERRITE BEAD
E4	2460591K40	COIL AIR WOUND INDUC 59.71
E5	2480640Z01	SURFACE MOUNT FERRITE BEAD

Ref. Des.	Part Number	Description
E501	2480640Z01	SURFACE MOUNT FERRITE BEAD
E502	2480640Z01	SURFACE MOUNT FERRITE BEAD
E503	2480640Z01	SURFACE MOUNT FERRITE BEAD
E504	2480640Z01	SURFACE MOUNT FERRITE BEAD
E505	2480640Z01	SURFACE MOUNT FERRITE BEAD
E506	2480640Z01	SURFACE MOUNT FERRITE BEAD
E507	2480640Z01	SURFACE MOUNT FERRITE BEAD
E508	2480640Z01	SURFACE MOUNT FERRITE BEAD
E509	2480640Z01	SURFACE MOUNT FERRITE BEAD
E520	2480640Z01	SURFACE MOUNT FERRITE BEAD
E6	2480640Z01	SURFACE MOUNT FERRITE BEAD
E7	2480640Z01	SURFACE MOUNT FERRITE BEAD
F901	6505757V02	FUSE SURFACE MT 2AMP
FL200	9185130D01	FLTR SW CAP 3 POLE BUTTERW
FL401	9185004D01	LC FLTR, MULTILAYER CERAMIC
FL402	9185004D01	LC FLTR, MULTILAYER CERAMIC
FL403	4885631B01	XTAL FILT 3 POLE 109.65 MOTORO
G1	3905643V01	CONTACT ANT GRD
G12	3905643V01	CONTACT ANT GRD
G2	3905643V01	CONTACT ANT GRD
G3	3905643V01	CONTACT ANT GRD
G6	3905643V01	CONTACT ANT GRD
G7	3905643V01	CONTACT ANT GRD
G8	3905643V01	CONTACT ANT GRD
G9	3905643V01	CONTACT ANT GRD
J1	NOTPLACED	64AM DUMMY PART NUMBER
J2	0905304Z01	CONN COAXIAL SMT

Ref. Des.	Part Number	Description
L1	2486085A04	COIL, 6.8 UH POWER INDUCTOR
L101	2460591K40	COIL AIR WOUND INDUC 59.71
L103	2413926H24	IND CHIP 100 NH 5%
L104	2413926H24	IND CHIP 100 NH 5%
L105	2413926H06	IND CHIP 3.3 NH +/- 0.3NH
L106	2413926H09	IND CHIP 5.6 NH +/- 0.3NH
L107	2413926F02	IND 1.5 NH +/-0.3 NH
L108	2413926H24	IND CHIP 100 NH 5%
L109	2413926H12	CHIP INDUCTOR 10.0NH
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%
L206	2462587V21	CHIP IND 6.8 NH 5% 0805
L207	2462587Q47	IND CHIP 1,000 NH 10%
L208	2462587Q20	IND CHIP 2,200 NH 20%
L301	2409377M36	IND CHIP WW 220 NH 5% 1608
L302	2409377M36	IND CHIP WW 220 NH 5% 1608
L303	2409377M36	IND CHIP WW 220 NH 5% 1608
L304	2409377M36	IND CHIP WW 220 NH 5% 1608
L305	2462587V24	CHIP IND 15 NH 5% 0805
L306	2462587V22	CHIP IND 8.2 NH 5% 0805
L307	2409377M36	IND CHIP WW 220 NH 5% 1608
L308	2409377M36	IND CHIP WW 220 NH 5% 1608
L309	2409377M36	IND CHIP WW 220 NH 5% 1608
L310	2462587V25	CHIP IND 18 NH 5% 0805
L311	2409377M36	IND CHIP WW 220 NH 5% 1608
L312	2409377M36	IND CHIP WW 220 NH 5% 1608
L405	2409377M36	IND CHIP WW 220 NH 5% 1608

Ref. Des.	Part Number	Description
L406	2409154M11	IND MTLILYR 6.8NH 1005
L407	2409154M23	IND CER MLTILYR 68.0NH 1005
L408	2409154M11	IND MTLILYR 6.8NH 1005
L409	2462587V32	CHIP IND 68 NH 5% 0805
L410	2404574Z15	IND CHIP WW 330NH 2% 2012 SMD
L411	2404574Z15	IND CHIP WW 330NH 2% 2012 SMD
L420	2409154M48	IND CER MLTILYR 1.0NH 1005
L421	2409154M48	IND CER MLTILYR 1.0NH 1005
L422	2409154M12	IND MTLILYR 8.2NH 1005
L423	2409377M14	IND CHIP WW 68 NH 5% 1608
L424	2409154M12	IND MTLILYR 8.2NH 1005
L425	2409154M14	IND CER MLTILYR 12.0NH 1005
L501	2405769X05	COIL INDUCTOR
L502	2405769X05	COIL INDUCTOR
L503	2462587Q54	"IND CHIP 3,900 NH 10%"
L547	2462587V38	CHIP IND 220 NH 5% 0805
L550	2462587T16	IND CHIP 120NH 5% LOW PRO
L702	2462587V36	CHIP IND 150 NH 5% 0805
L703	2460591A69	COIL AIR WOUND INDUC 8.72
L704	2460591A69	COIL AIR WOUND INDUC 8.72
L705	2460591B22	COIL AIR WOUND INDUC 8.67
L706	2413926G15	IND 47.0 NH 5%
L707	2413926G15	IND 47.0 NH 5%
L708	2460591A69	COIL AIR WOUND INDUC 8.72
P1	NOTPLACED	64AM DUMMY PART NUMBER
PCB	8485013D02	PCB RF 800 MHZ
Q1	4813821A47	TSTR P-CH HDTMOS 20V
Q101	4813824A42	TSTR PNP 50V BIAS RES 10K 10K
Q102	4813821A47	TSTR P-CH HDTMOS 20V

Ref. Des.	Part Number	Description
Q103	4813824A42	TSTR PNP 50V BIAS RES 10K 10K
Q104	4813821A47	TSTR P-CH HDTMOS 20V
Q106	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q107	5185633C10	MODE 800MHZ RING
Q108	4805128M12	TSTR SOT BCW60B (RH)
Q2	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q201	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q301	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q302	4805218N11	XISTOR SOT RH BST82
Q303	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q304	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q305	4805218N11	XISTOR SOT RH BST82
Q306	4805218N11	XISTOR SOT RH BST82
Q307	4805218N11	XISTOR SOT RH BST82
Q308	4805793Y01	TRANS MINI SOT NPN LOW NOISE
Q309	4805218N11	XISTOR SOT RH BST82
Q310	4813821A47	TSTR P-CH HDTMOS 20V
Q420	4805585Q19	TRANSISTOR
Q501	4805128M19	TSTR SOT23 MMBTA13 RH
Q502	4805218N63	RF TRANS SOT 323 BFQ67W
Q66	4813824A39	TSTR NPN 50V BIAS RES 22K 22K
Q99	4813821A47	TSTR P-CH HDTMOS 20V
R1	0662057N23	RES. CHIP 100K 5% 20X40
R101	0662057N23	RES. CHIP 100K 5% 20X40
R103	0662057M58	RES. CHIP 220 5% 20X40
R104	0662057M58	RES. CHIP 220 5% 20X40
R105	0662057N03	RES. CHIP 15K 5% 20X40
R106	0662057M98	RES. CHIP 10K 5% 20X40
R107	0662057M90	RES. CHIP 4700 5% 20X40
R108	0662057M90	RES. CHIP 4700 5% 20X40
R109	0662057M50	RES. CHIP 100 5% 20X40
R110	0662057M50	RES. CHIP 100 5% 20X40

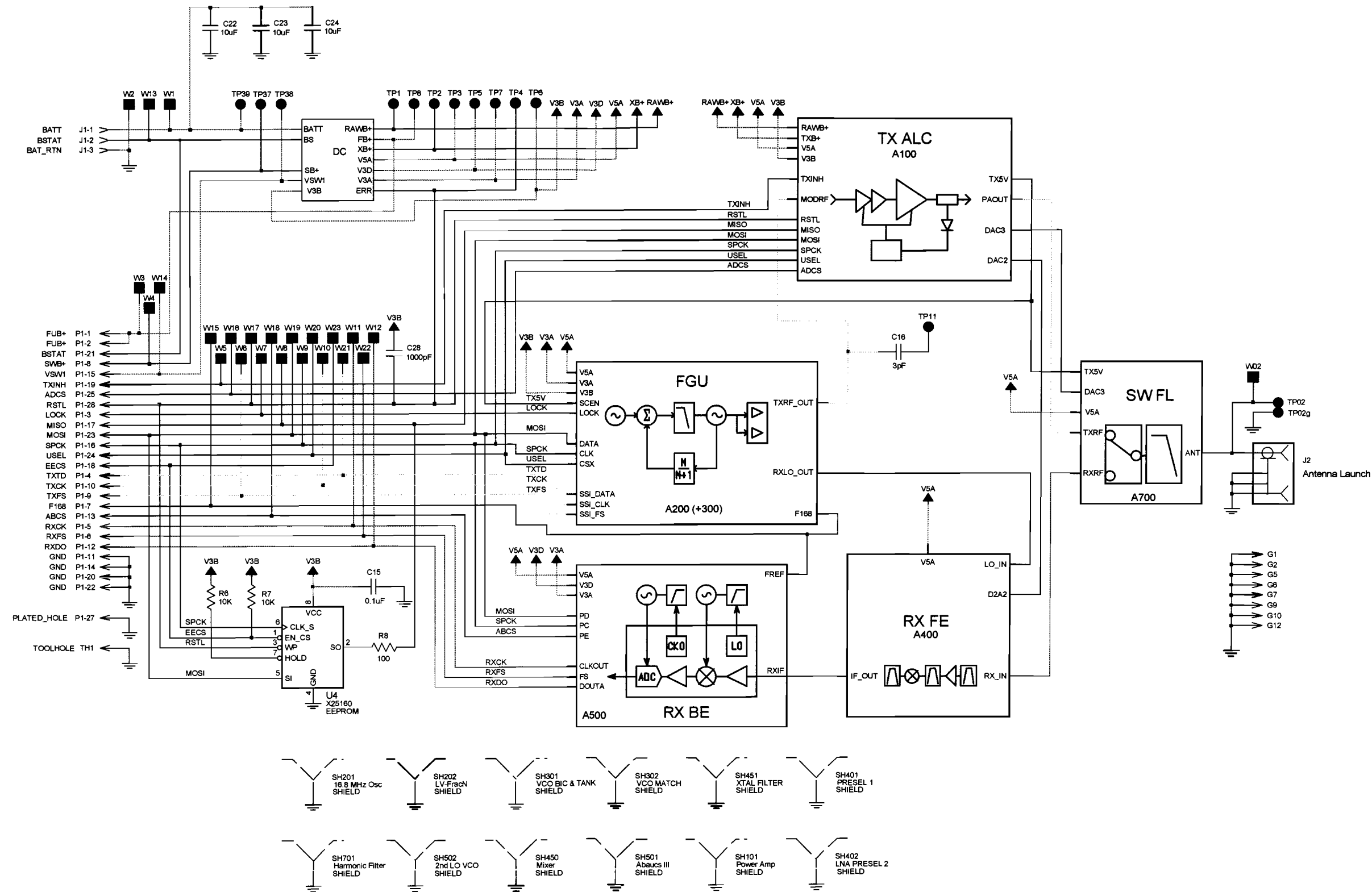
Ref. Des.	Part Number	Description
R111	0662057N23	RES. CHIP 100K 5% 20X40
R112	0662057N23	RES. CHIP 100K 5% 20X40
R113	0662057N23	RES. CHIP 100K 5% 20X40
R114	0662057N23	RES. CHIP 100K 5% 20X40
R115	0662057M74	RES. CHIP 1000 5% 20X40
R117	0662057M26	RES. CHIP 10 5% 20X40
R118	0662057M50	RES. CHIP 100 5% 20X40
R119	0662057M50	RES. CHIP 100 5% 20X40
R120	0662057M50	RES. CHIP 100 5% 20X40
R121	0662057M50	RES. CHIP 100 5% 20X40
R122	0662057M01	RES. CHIP 0 5% 20X40
R123	NOTPLACED	64AM DUMMY PART NUMBER
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
R130	0662057N23	RES. CHIP 100K 5% 20X40
R131	0662057M26	RES. CHIP 10 5% 20X40
R201	0662057N11	RES. CHIP 33K 5% 20X40
R202	0662057M81	RES. CHIP 2000 5% 20X40
R204	0662057N13	RES. CHIP 39K 5% 20X40
R205	0662057N07	RES. CHIP 22K 5% 20X40
R207	0662057M40	RES. CHIP 39 5% 20X40
R208	0662057N11	RES. CHIP 33K 5% 20X40
R209	0662057M98	RES. CHIP 10K 5% 20X40
R210	0662057M62	RES. CHIP 330 5% 20X40
R211	0662057M74	RES. CHIP 1000 5% 20X40
R212	0662057M52	RES. CHIP 120 5% 20X40
R213	0662057M98	RES. CHIP 10K 5% 20X40
R214	0662057M74	RES. CHIP 1000 5% 20X40
R215	0662057M98	RES. CHIP 10K 5% 20X40
R216	0662057M96	RES. CHIP 8200 5% 20X40
R217	0662057M81	RES. CHIP 2000 5% 20X40
R220	NOTPLACED	64AM DUMMY PART NUMBER
R301	0662057N07	RES. CHIP 22K 5% 20X40
R302	0662057N07	RES. CHIP 22K 5% 20X40
R303	0662057M26	RES. CHIP 10 5% 20X40

Ref. Des.	Part Number	Description
R304	0662057M58	RES. CHIP 220 5% 20X40
R305	0662057N16	RES. CHIP 51K 5% 20X40
R306	0662057M58	RES. CHIP 220 5% 20X40
R307	0662057M58	RES. CHIP 220 5% 20X40
R308	0662057N07	RES. CHIP 22K 5% 20X40
R309	0662057N06	RES. CHIP 20K 5% 20X40
R310	0662057N07	RES. CHIP 22K 5% 20X40
R311	0662057M34	RES. CHIP 22 5% 20X40
R313	0662057M34	RES. CHIP 22 5% 20X40
R314	0662057M58	RES. CHIP 220 5% 20X40
R315	0662057M38	RES. CHIP 33 5% 20X40
R316	0662057M42	RES. CHIP 47 5% 20X40
R317	0662057N11	RES. CHIP 33K 5% 20X40
R318	0662057N16	RES. CHIP 51K 5% 20X40
R319	0662057N16	RES. CHIP 51K 5% 20X40
R320	0662057N16	RES. CHIP 51K 5% 20X40
R321	0662057M34	RES. CHIP 22 5% 20X40
R322	0662057N07	RES. CHIP 22K 5% 20X40
R323	0662057M42	RES. CHIP 47 5% 20X40
R324	0662057N16	RES. CHIP 51K 5% 20X40
R325	0662057N07	RES. CHIP 22K 5% 20X40
R326	0662057M34	RES. CHIP 22 5% 20X40
R327	0662057M58	RES. CHIP 220 5% 20X40
R328	0662057N16	RES. CHIP 51K 5% 20X40
R329	0662057M52	RES. CHIP 120 5% 20X40
R340	0662057M92	RES. CHIP 5600 5% 20X40
R399	0662057N03	RES. CHIP 15K 5% 20X40
R401	0662057N23	RES. CHIP 100K 5% 20X40
R410	0662057M98	RES. CHIP 10K 5% 20X40
R411	0662057M98	RES. CHIP 10K 5% 20X40
R412	0662057M48	RES. CHIP 82 5% 20X40
R415	0662057M47	RES. CHIP 75 5% 20X40
R420	0662057M59	RES. CHIP 240 5% 20X40
R421	0662057M84	RES. CHIP 2700 5% 20X40
R422	0662057M90	RES. CHIP 4700 5% 20X40
R423	0662057M94	RES. CHIP 6800 5% 20X40
R424	0662057M66	RES. CHIP 470 5% 20X40
R501	0662057N23	RES. CHIP 100K 5% 20X40
R502	0662057M56	RES. CHIP 180 5% 20X40

Ref. Des.	Part Number	Description
R503	0662057M98	RES. CHIP 10K 5% 20X40
R504	0662057M98	RES. CHIP 10K 5% 20X40
R505	0662057M95	RES. CHIP 7500 5% 20X40
R506	0662057M98	RES. CHIP 10K 5% 20X40
R507	0662057M83	RES. CHIP 2400 5% 20X40
R508	0662057M62	RES. CHIP 330 5% 20X40
R509	0662057M42	RES. CHIP 47 5% 20X40
R510	0662057N23	RES. CHIP 100K 5% 20X40
R511	0662057N23	RES. CHIP 100K 5% 20X40
R512	0662057M98	RES. CHIP 10K 5% 20X40
R513	0662057M98	RES. CHIP 10K 5% 20X40
R514	0662057M64	RES. CHIP 390 5% 20X40
R6	0662057M98	RES. CHIP 10K 5% 20X40
R7	0662057M98	RES. CHIP 10K 5% 20X40
R702	0662057A29	CHIP RES 150 OHMS 5%
R703	0662057A29	CHIP RES 150 OHMS 5%
R704	0662057N23	RES. CHIP 100K 5% 20X40
SH201	2685787B01	SHLD FRAC-N
SH202	2685787B01	SHLD FRAC-N
SH301	2685297D01	SHLD VCO
SH302	2685298D01	SHLD VCO BUFFER
SH401	2685627A02	SHLD DUAL INDUCTOR
SH402	2685627A02	SHLD DUAL INDUCTOR
SH403	2685882A01	SHLD VCO TANK
SH501	2685298D01	SHLD VCO BUFFER
SH700	2685762D02	SHIELD HARMONIC FILTER
T401	2580541Z02	BALUN TRANSFORMER (NEW)
T402	2505515V07	XFMR JEDI MIXER 25:1
T403	2580541Z02	BALUN TRANSFORMER (NEW)
TH1	NOTPLACED	64AM DUMMY PART NUMBER
U1	5185353D13	IC MINI SO-8 HI PRECISION REG 5V
U101	5185633C24	MODULE DIRECT COUPLER
U102	5185130C65	IC VHF/UHF/800 MHZ LDMOS DRIVER

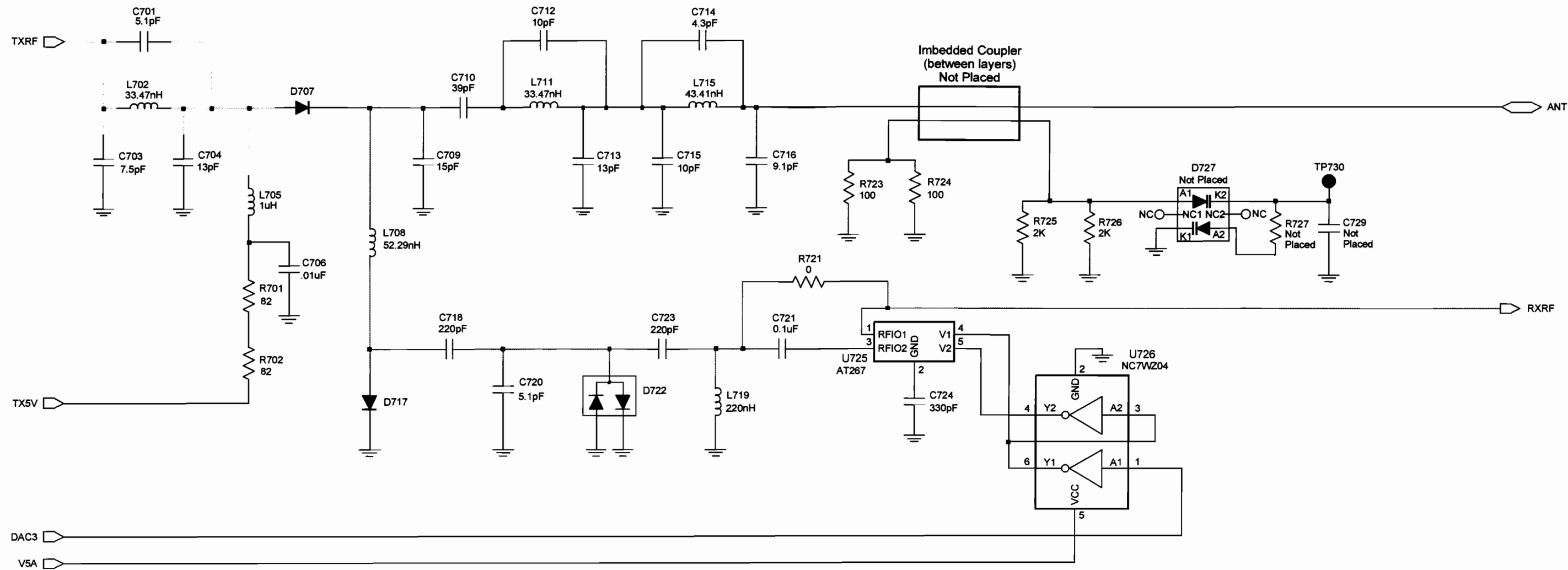
Ref. Des.	Part Number	Description
U103	5185963A15	IC TEMPERTURE SENSOR 1M50C
U104	5185765B26	IC PWR CTRL IN MOS20
U105	5185368C19	IC QUAD 10 BIT A/D CONV
U106	5185963A60	IC OP AMP
U2	5185353D14	IC SOT23-5 HI PRECISION REG 3V
U201	5186358E01	IC ANALOG OP-AMP CLC450
U202	5185963A27	IC TESTED AT25016 48 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
U401	5185143E12	IC INVERTER DUAL SC70
U403	5185130C83	IC 15DB DIGITAL ATTEUATOR SOT25 PKG
U405	5185130C91	IC MIXER RF SOIC 10
U500	5185963A85	IC-ABACUS III-LP
VR1	4813830A33	DIODE 20V 5% 225MW MMBZ5250B_
VR2	4813830A15	DIODE 5.6V 5% 225MW MMBZ5232B_
VR3	4805656W45	DIODE TRANSIENT VOLTAGE SUPPRESSOR
W02	NOTPLACED	64AM DUMMY PART NUMBER
W021	NOTPLACED	64AM DUMMY PART NUMBER
W1	NOTPLACED	64AM DUMMY PART NUMBER
W10	NOTPLACED	64AM DUMMY PART NUMBER
W11	NOTPLACED	64AM DUMMY PART NUMBER
W12	NOTPLACED	64AM DUMMY PART NUMBER
W13	NOTPLACED	64AM DUMMY PART NUMBER
W14	NOTPLACED	64AM DUMMY PART NUMBER

Ref. Des.	Part Number	Description
W15	NOTPLACED	64AM DUMMY PART NUMBER
W16	NOTPLACED	64AM DUMMY PART NUMBER
W17	NOTPLACED	64AM DUMMY PART NUMBER
W18	NOTPLACED	64AM DUMMY PART NUMBER
W19	NOTPLACED	64AM DUMMY PART NUMBER
W2	NOTPLACED	64AM DUMMY PART NUMBER
W20	NOTPLACED	64AM DUMMY PART NUMBER
W21	NOTPLACED	64AM DUMMY PART NUMBER
W22	NOTPLACED	64AM DUMMY PART NUMBER
W23	NOTPLACED	64AM DUMMY PART NUMBER
W3	NOTPLACED	64AM DUMMY PART NUMBER
W4	NOTPLACED	64AM DUMMY PART NUMBER
W5	NOTPLACED	64AM DUMMY PART NUMBER
W6	NOTPLACED	64AM DUMMY PART NUMBER
W7	NOTPLACED	64AM DUMMY PART NUMBER
W8	NOTPLACED	64AM DUMMY PART NUMBER
W9	NOTPLACED	64AM DUMMY PART NUMBER
Y200	4802245J68	OSC, REF 16.8 MHZ 1.5 PPM
Y301	4805911Z16	IND COAXIAL CERAMIC SMD
Y302	4805911Z17	IND COAXIAL CERAMIC SMD
Y303	4805911Z14	IND COAXIAL CERAMIC 1100 MHZ



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Figure 8-19. NLD8910B VHF Transceiver (RF) Board Overall Circuit Schematic



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Figure 8-21. NLD8910B VHF Antenna Switch and Harmonic Filter Circuits

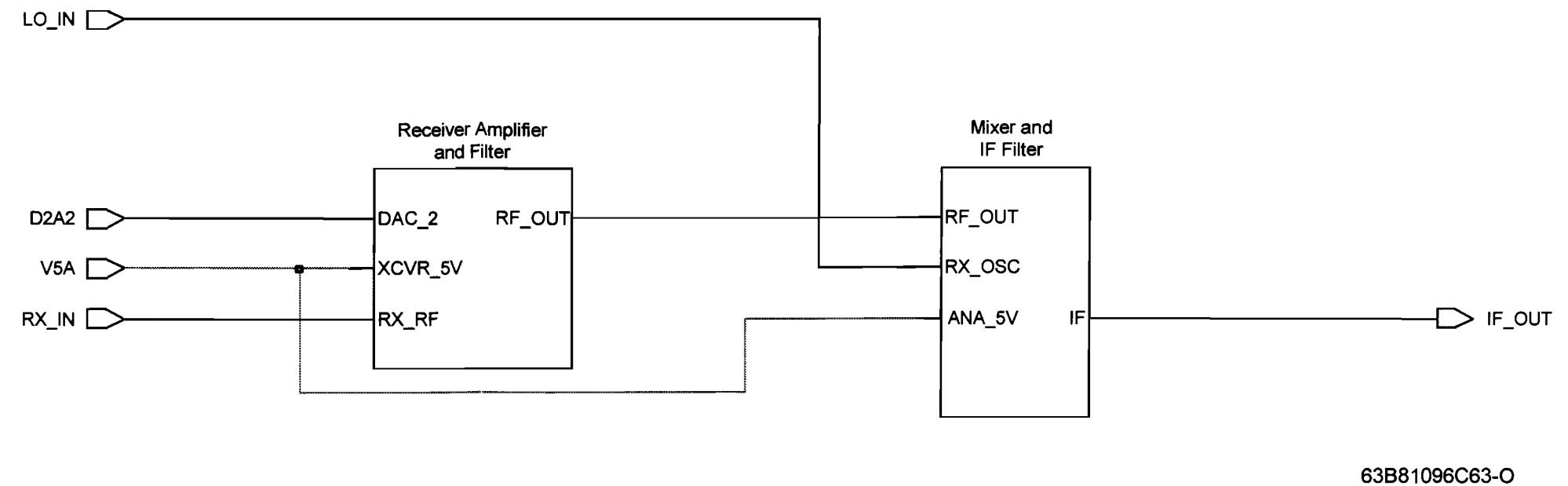
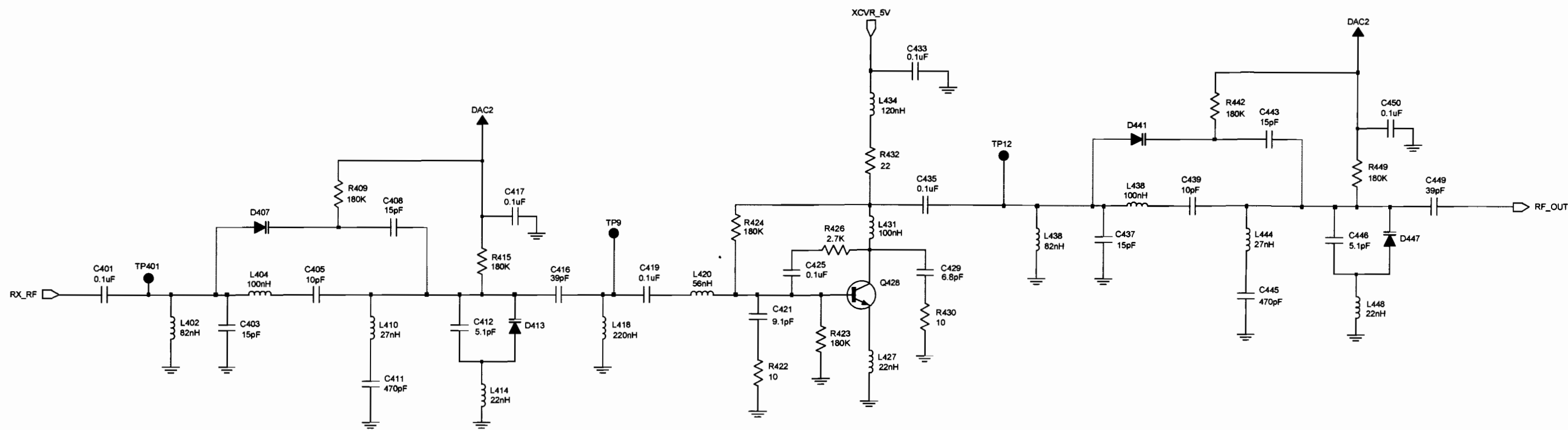
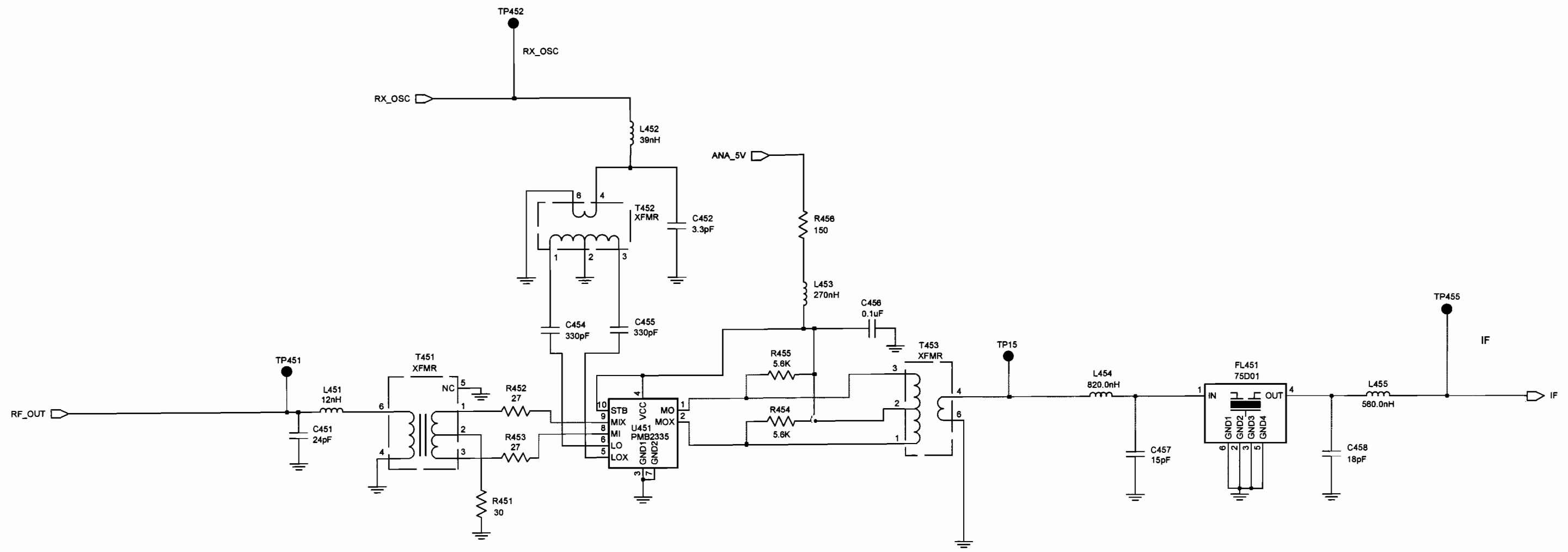


Figure 8-22. NLD8910B VHF Receiver Front End Circuit



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Figure 8-23. NLD8910B VHF Receiver Amplifier and Filter Circuit



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Figure 8-24. NLD8910B VHF Mixer and IF Filter Circuits

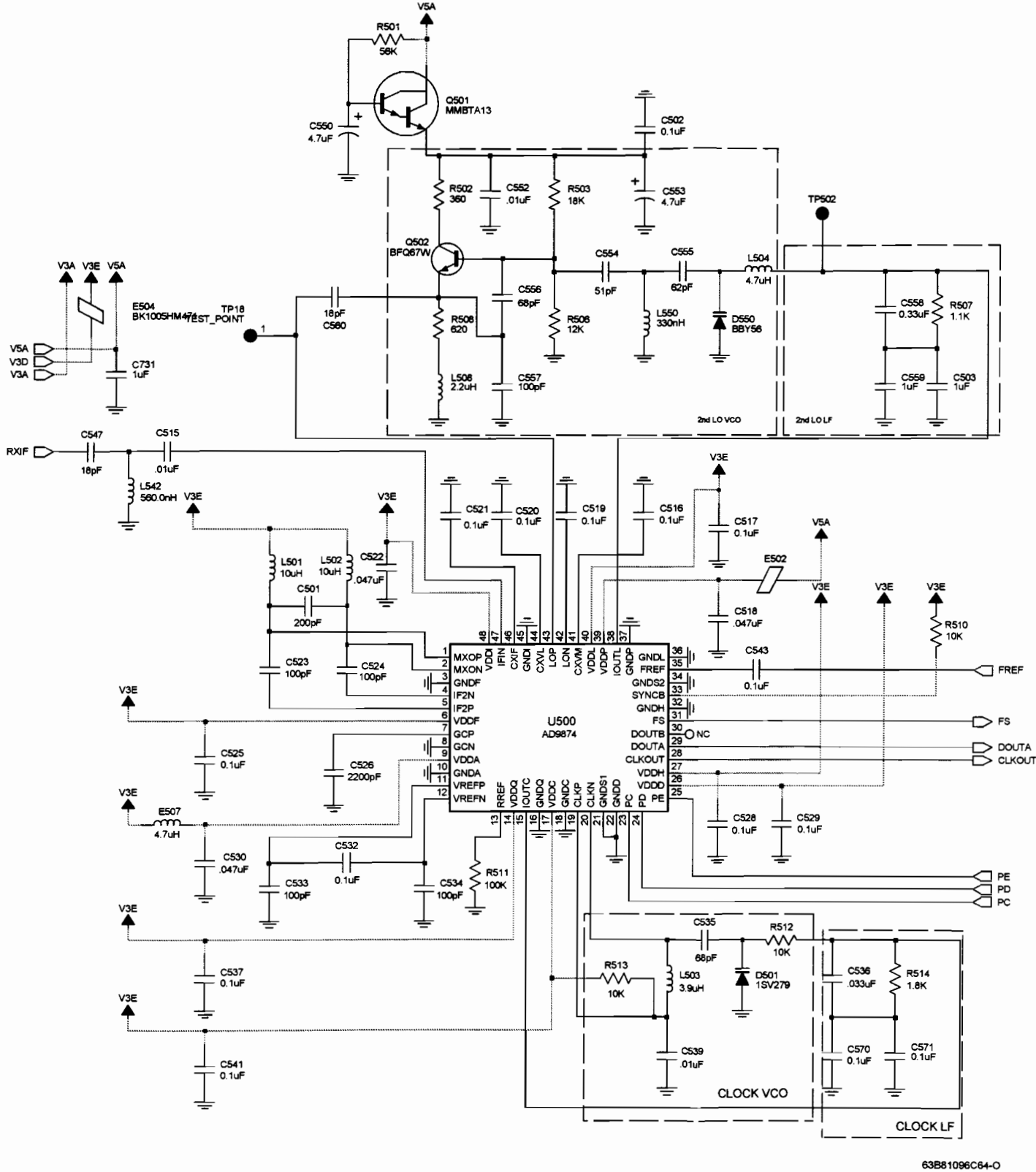
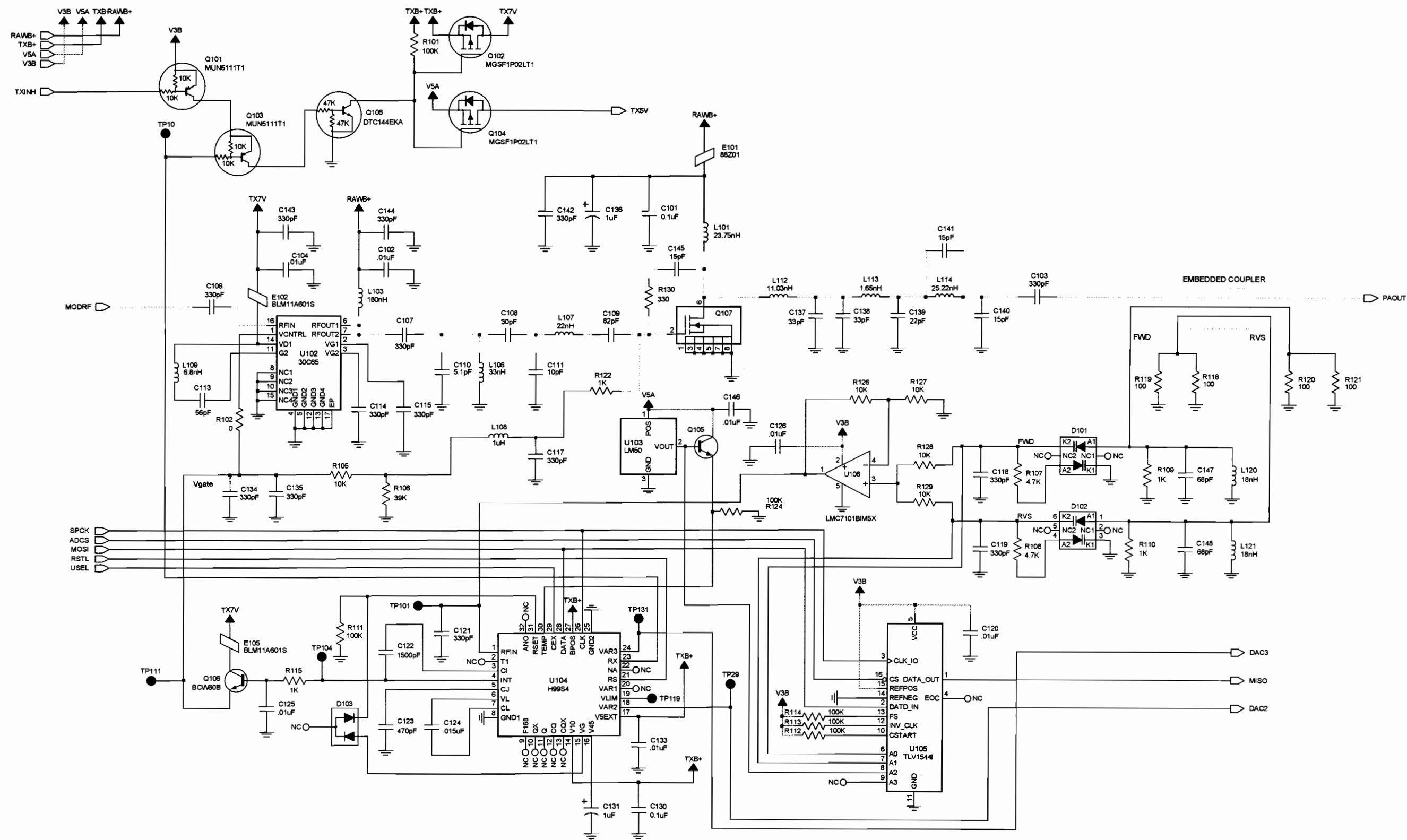


Figure 8-25. NLD8910B VHF Receiver Back End Circuit



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Figure 8-26. NLD8910B VHF Transmitter and Automatic Level Control Circuits