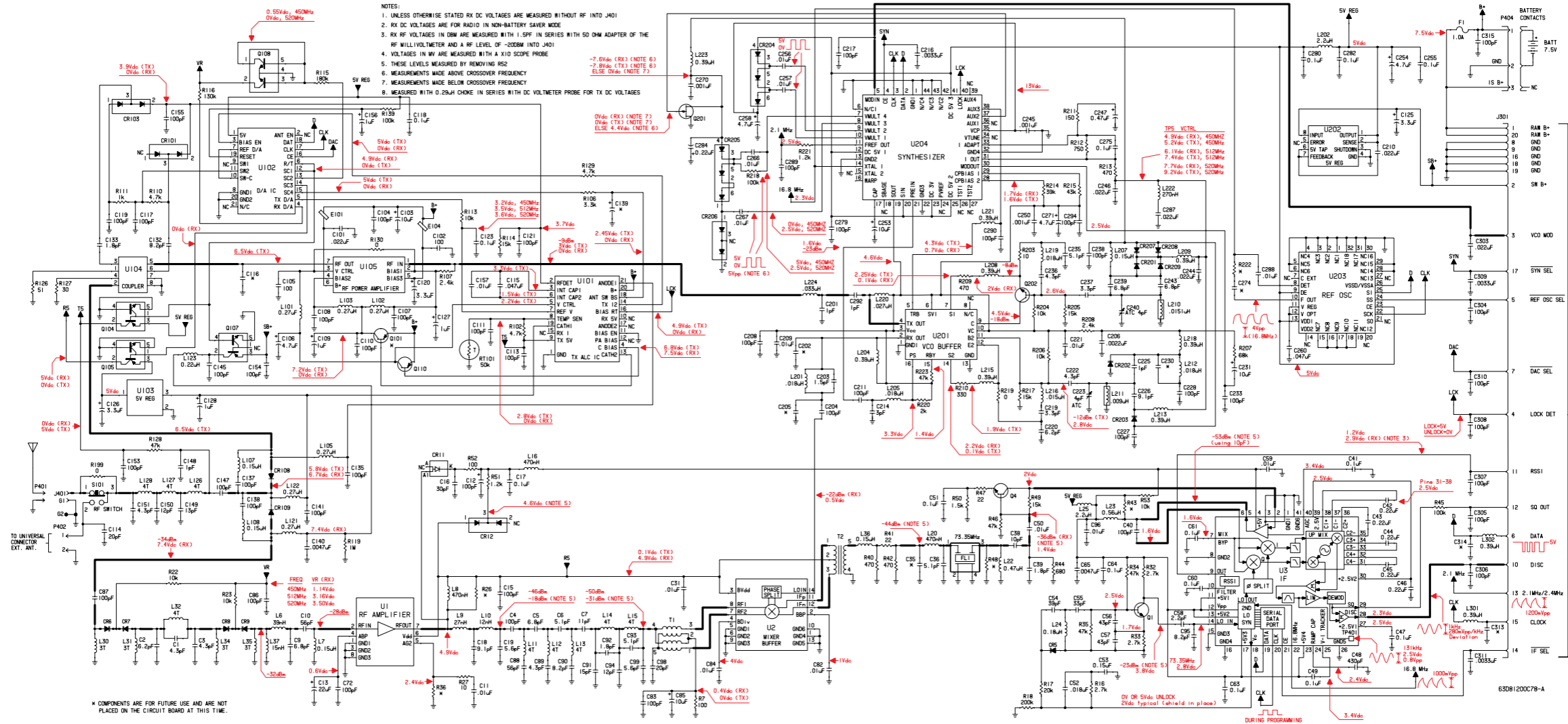


**Electrical Parts List, UHF Xcvrs (450 - 520MHz)
NUE7232C, NUE7241D
NUE7267A, NUE7268A, NUE7273A, NUE7275A**

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		CAPACITOR, Fixed: pF ±30%; 50V unless stated
C1	2113740F18	1.0 ± 0.1pF
C2	2113740F22	2.2
C3	2113740F22	4.3
C4	2113930F51	100
C5	2113740F23	6.8
C6	2113740F20	5.1
C7	2113740F28	11
C8	2113740F23	6.8
C9	2113740F45	9.1
C10	2113931F49	.01µF
C11	2113930F51	100
C13	2311049A66	20µF; 4V
C15	2113930F51	100
C16	2113740F38	30
C17	2113932K15	0.1µF
C19	2113740F26	9.1
C19	2113740F21	5.6
C31	2113931F49	.01µF
C35	-----	Not Placed
C38	2113740F20	1.0
C39	2113740F27	1.8 ± 0.1pF
C40	2113930F51	100
C41	2113743A19	0.1µF
C42 thru 46	2113743A23	0.22µF
C47	2109720D14	0.1µF
C48	2113741F16	4.3
C49	2113743A19	0.1µF
C50	2113931F49	.01µF
C51	2113932K15	0.1µF
C52	2113741A51	0.1µF
C53	2113743B17	0.15µF
C54	2113740F41	39
C55	2113930F39	33
C56, 57	2113740F42	43
C58	2113740F11	2.2
C59	2113931F49	.01µF
C60	2113932K15	0.1µF
C61	2109720D14	0.1µF
C63, 64	2113932K15	0.1µF
C65	2113741F41	.0047µF
C72	2113930F51	100
C73	2113931F49	.01µF
C82	2113930F51	100
C84	2113931F49	.01µF
C85	2311049J23	10µF; 6V
C86, 87	2113930F51	100
C88	2113740F45	56
C89	2113740A18	4.3
C90	2113740F25	8.2
C91	2113740F31	15
C92	2113740F09	1.8 ± 0.1pF
C93	2113740F20	5.1
C94	2113740F29	12
C95	2113740F25	8.2
C96	2113931F49	.01µF
C98	2113740F34	20
C99	2113740F21	5.6
C101	2113932E07	.022µF
C102	2113930F51	100
C103	2311049J26	10µF; 16V
C104, 105	2113930F51	100
C106	2311049A56	4.7µF; 10V
C107, 108	2113930F51	100
C109	2311049A07	1µF; 16V
C110, 111	2113930F51	100
C113	2113930F51	100
C114	2113740F34	20
C115	2113743K07	0.47µF
C116	-----	Not Placed
C117	2113930F51	100
C118	2113932K15	0.1µF
C119	2113930F51	100
C120	2311049A54	3.3µF; 16V
C121	2113930F51	100
C123	2113932K15	0.1µF
C125, 126	2311049A54	3.3µF; 16V
C127, 128	2311049A07	1µF; 16V
C132	2113740F25	8.2
C133	2113740F09	1.8 ± 0.1pF
C135, 137, 138	2113930F51	100
C139	-----	Not Placed
C140	2113741F41	.0047µF
C141, 145, 147	2113930F51	100
C148	2113740R03	1.0 ± 0.1pF
C149	2113740F30	13
C150	2113740F29	12
C151	2113740F18	4.3

C153, 154, 155	2113930F51	100
C156	2311049A07	1µF; 16V
C157	2113741F49	.01µF
C201	2113740F03	1.0 ± 0.1pF
C202	-----	Not Placed
C203	2113740F07	1.5 ± 0.1pF
C204	2113930F51	100
C205	-----	Not Placed
C206	2113741F33	1.0
C208	2113930F51	100
C209	2113931F49	.01µF
C210	2113932E07	.022µF
C211	2113930F51	100
C214	2113740F14	3.0 ± 0.1pF
C216	2113741F37	.0033µF
C217	2113930F51	100
C219	2113740F15	4.3
C220	2113740F22	6.2
C221	2113931F49	.01µF
C222	2113740F18	132
C223	2113930C02	ATC, 4pF
C225	2113740F03	1.0 ± 0.1pF
C226	2113740F26	9.1
C227, 228	2113930F51	100
C230	-----	Not Placed
C231	2311049A60	10µF; 4V
C233	2113930F51	100
C235	2113740F20	5.1
C236	2113740F18	4.3
C237	2113740F15	3.3
C238	2113930F51	100
C239	2113740F23	6.8
C240	2113930C02	ATC, 4pF
C243	2113740E23	6.8
C244	2109720D09	.022µF
C245	2113741E25	0.01µF
C246	2109720D09	.022µF
C247	2311049A05	0.47µF; 25V
C250	2113741F25	0.01µF
C253	2311049J23	10µF; 6V
C254	2311049A56	4.7µF; 10V
C255	2113932K15	0.1µF
C256, 257	2113740F11	2.2
C258	2311049J11	4.7µF; 16V
C260	2113743K07	.047µF
C266, 267	2113931F49	.01µF
C270	2311049A56	4.7µF; 10V
C271	2311049A56	4.7µF; 10V
C274	-----	Not Placed
C275	2113932K15	0.1µF
C279	2113930F51	100
C280	2113932K15	0.1µF
C282	2113932K15	0.1µF
C284	2311049A33	0.22µF
C287	2109720D09	.022µF
C288	2113931F49	.01µF
C289, 290	2113930F51	100
C292	4805129M96	1.0 ± 0.1pF
C294	2113930F51	100
C303	2113932E07	.022µF
C304 thru 308	2113930F51	100
C309	2113741F37	.047µF
C310	2113930F51	100
C311	2113741F37	.0033µF
C313, 314	-----	Not Placed
C315	2113930F51	100
CR3 thru 9	4862824C01	Varactor, 15V229
CR11	4805129M96	Dual
CR12	4805218NS57	Dual
CR101, 103	4805129M67	Dual
CR108, 109	4802482J02	Varactor
CR201	4802245J29	Varactor
CR202	4862824C01	Varactor
CR203	4862824C03	Varactor
CR204, 205	4802233J99	Triple
CR206	4805129M06	Dual
CR207, 208, 209	4802245J29	Varactor
E101, 104	2484657R01	CORE: Bead, Ferrite
F1	6505757V01	FUSE: 1-Amp.
FL1	4802655J03	FILTER, Crystal: 73.35 MHz
G1	3905643V01	CONNECTOR: Contact, Antenna Ground
G2	3905643V01	Contact, Ground
J301	0905461X02	JACK: Connector; 20 contacts; to P301 Strip Connector

J401	3905264W01	Contact, Antenna
L6	2462587V29	.039µH
L7	Not Placed	0.1 µH
L8	2462587T23	470nH
L9	2462587V27	.027µH
L10	2462587V23	.012µH
L11	2460591B04	4 turns, airwound
L12	2460591M32	4 turns, airwound
L13	2460591B80	4 turns, airwound
L14, 15	2460591B04	4 turns, airwound
L16	2460591M32	4 turns, airwound
L20	2462587N61	470nH
L22	2462587T23	0.47µH
L23	2462587Q44	0.50µH
L24	2462587V37	0.18µH
L25	2462587Q20	2.2µH
L30, 31	2460591A01	3 turns, airwound
L32	2460591B04	4 turns, airwound
L34, 35	2460591A01	3 turns, airwound
L36	2462587V36	0.27µH
L37	2462587V24	.015µH
L38	2462587T20	0.27µH
L105 thru 103	2462587T20	0.27µH
L107, 108	2462587T17	0.15µH
L121, 122	2462587T20	0.27µH
L123	2462587V38	0.22µH
L126 thru 128	2460591B04	4 turns, airwound
L201	2462587T37	.018µH
L202	2462587Q20	2.2µH
L204	2462587Q42	1.30µH
L205	2462587V25	.018µH
L207	2462587V36	0.15µH
L208, 209	2462587T22	0.39µH
L210	2405619V03	0.15µH, molded coil
L211	2405619V07	.009µH, molded coil
L212	2462587V25	.018µH
L213, 215	2462587T22	0.39µH
L216	2462587T05	.015µH
L218	2462587T22	0.39µH
L219	2462587T37	.018µH
L220	2113931F49	.01µF
L221	2462587T22	0.39µH
L222	2462587Q40	270nH
L223	2462587Q42	0.39µH
L224	2462587T40	1.22µH
L301, 302	2462587Q42	0.39µH
P402	-----	Contact, External Antenna; part of RF switch S101
P404	3905861X02	Connector, Battery; 2-pin
Q1, 4	4805218N63	NPN
Q101	-----	Not Placed
Q104, 105, 107	4805921T02	PNP NPN
Q108	4802245J10	NPN Dual
Q110	4802245J12	PNP
Q201	4802245J15	JFET
Q202	4805218NS55	NPN
R7	0662057A25	100
R16	0662057A80	2.7k
R17	0662057B05	20k
R18	0662057A03	200k
R26, 23	0662057A73	10k
R27	Not Placed	10k
R27	0662057A01	10
R32, 33	0662057A59	2.7k
R34, 35	0662057A89	47k
R36	-----	Not Placed
R40	0662057A41	470
R41	0662057A09	22
R42	0662057A41	470
R43	-----	Not Placed
R44	0662057A45	680
R45	0662057A90	51k
R46	0662057A89	47k
R47	0662057A09	22
R48	-----	Not Placed
R49	0662057A77	15k
R50	0662057A53	1.5k
R51	0662057A51	1.2k
R52	0662057A25	100
R53	0662057A73	10k
R54	0662057A65	4.7k
R102	0662057A61	3.3k
R106	0662057A58	2.4k
R107	0662057A65	4.7k
R110	0662057A49	1k
R111	0662057A73	10k
R112	0662057A73	10k
R114	0662057A77	15k
R115	066078L28	180k ± 1%; 0.125W
R116	0662057G19	130k ± 1%; 0.1W
R119	0662057B22	.027µH
R126	0662057A18	51
R127	0662057A12	30
R128	0662057A89	47k
R129	0662057A65	4.7k
R130	0662057B47	0
R139	0662057A97	100k
R199	0662057B47	0
R203	0662057A01	10k
R204	0662057A77	15k
R205	0662057A77	15k
R206	0662057A73	10k
R207	0662057A93	68k
R212	0662057A46	750
R209	0662057A41	470
R210	0662057A37	300
R211	0662057A29	150
R212	0662057A46	750
R213	0662057A41	470
R214	0662057A87	39k
R215	0662057A88	43k
R217	0662057A77	15k
R218	0662057A97	100k
R219	0662057B47	0
R220	0662057A56	2k



NUE7232C, NUE7241D, NUE7267A, NUE7268A, NUE7273A, AND NUE7275A UHF (450-520MHz) TRANSCEIVER BOARDS' SCHEMATIC DIAGRAM

Electrical Parts List, UHF Xcvrs (450 - 520MHz)
NUE7267B, NUE7268B, NUE7273B, NUE7275B

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		CAPACITOR, Fixed: pf ±30%; 50V unless stated
C1	2113740F18	4.3
C2	2113740F22	6.2
C3	2113740F18	4.3
C4	2113930F51	100
C5	2113740F23	6.8
C6	2113740F20	5.1
C7	2113740F28	11
C9	2113740F23	6.8
C10	2113740F45	5.6
C11	2113931F49	.01µF
C12	2113930F51	100
C13	231104A066	22µF; 4V
C15	2113930F51	100
C16	2113740F38	30
C17	2113932K15	0.1µF
C18	2113740F26	9.1
C19	2113740F21	5.6
C31	2113931F49	.01µF
C35	-----	Not Placed
C36	2113740F20	5.1
C38	2113740F27	1.8 ± 0.1pF
C39	2113740F09	1.8 ± 0.1pF
C40	2113930F51	100
C41	2113743A19	0.1µF
C42 thru 46	2113743A23	0.22µF
C47	2109720D14	0.1µF
C48	2113741F16	0.1µF
C49	2113743F12	0.1µF
C50	2113931F49	0.1µF
C51	2113932K15	0.1µF
C52	2113741A51	.018µF
C53	2113743B17	0.15µF
C54	2113740F41	39
C55	2113930F39	33
C56, 57	2113740F42	43
C58	2113740F11	2.2
C59	2113931F49	.01µF
C60	2113932K15	0.1µF
C61	2109720D14	0.1µF
C63, 64	2113932K15	0.1µF
C65	2113741F41	.0047µF
C72	2113930F51	100
C82	2113931F49	.01µF
C83	2113930F51	100
C84	2113931F49	.01µF
C85	231104J23	10µF; 6V
C86, 87	2113930F51	100
C88	2113740F45	56
C89	2113740A18	4.3
C90	2113740F25	8.2
C91	2113740F31	15
C92	2113740F09	1.8 ± 0.1pF
C93	2113740F20	5.1
C94	2113740F29	12
C95	2113740F25	8.2
C96	2113931F49	.01µF
C98	2113740F34	20
C99	2113740F21	5.6
C101	2113932E07	.022µF
C103	231104J26	10µF; 16V
C104, 105	2113930F51	100
C106	231104A056	4.7µF; 10V
C111	2113930F51	100
C113, 114	2113930F51	100
C115	2113743K07	.047µF
C116	-----	Not Placed
C117	2113930F51	100
C118	2113932K15	0.1µF ± 0.1pF
C119	2113930F51	100
C121	2113930F51	100
C123	2113932K15	3.3µF; 16V
C125, 126	231104A054	1µF; 16V
C128	231104A07	1µF; 16V
C132	2113740F25	8.2
C133	2113740F09	1.8 ± 0.1pF
C135, 137, 138	2113930F51	100
C139	-----	Not Placed
C140	2113741F41	.0047µF
C141, 145, 147	2113930F51	100
C148	2113740F03	1.0 ± 0.1pF
C149	2113740F30	13
C150	2113740F29	12
C151	2113740F18	4.3
C153, 154, 155	2113930F51	100
C156	231104A07	1µF, 16V
C157	2113932K15	0.1µF
C201	2113740F03	1.0 ± 0.1pF
C202	-----	Not Placed

C203	2113740F07	1.5 ± 0.1pF
C204	2113930F51	100
C205	-----	Not Placed
C206	2113741F33	.0022µF
C208	2113930F51	100
C209	2113931F49	.01µF
C210	2113932E07	.022µF
C211	2113930F51	100
C214	2113740F14	3.0 ± 0.1pF
C216	2113741F37	.0033µF
C217	2113930F51	100
C219	2113740F15	3.3
C220	2113740F22	6.2
C221	2113931F49	.01µF
C222	2113740F18	4.3
C223	2113906C02	ATC, 4pF
C225	2113740F38	1.0 ± 0.1pF
C226	2113740F26	9.1
C227, 228	2113930F51	100
C230	-----	Not Placed
C231	231104A060	10µF; 4V
C233	2113930F51	100
C235	2113740F20	5.1
C236	2113740F18	4.3
C237	2113740F15	3.3
C238	2113930F51	100
C239	2113740F23	6.8
C240	2113906C02	ATC, 4pF
C243	2113740F23	6.8
C244	2109720D09	.022µF
C245	2113741F25	.001µF
C246	2109720D09	.022µF
C247	231104A05	0.47µF; 25V
C250	2113741F25	.001µF
C253	231104J23	10µF; 6V
C254	2113743G26	4.7µF; 16V
C255	2113932K15	0.1µF
C256, 257	2113931F49	4.7µF; 16V
C258	231104J11	39
C260	2113743K07	.047µF
C266, 267	2113931F49	.01µF
C270	2113741F25	.001µF
C271	2385688A01	4.7µF; 10V
C274	-----	Not Placed
C275	2113932K15	0.1µF
C279	2113930F51	100
C280	2113932K15	0.1µF
C282	2113932K15	0.1µF
C284	231104A033	0.22µF
C287	2109720D09	.022µF
C288	2113931F49	.01µF
C289, 290	2113930F51	100
C292	2113740F03	1.0 ± 0.1pF
C294	2113930F51	100
C303	2113932E07	.022µF
C304 thru 308	2113930F51	100
C309	2113741F37	.0033µF
C310	2113930F51	100
C311	2113741F37	.0033µF
C313, 314	-----	Not Placed
C315	2113930F51	100
CR5 thru 9	4862824C01	Varactor, 1SV229
CR11	4805129M96	Dual
CR12	4805218N57	Dual
CR101, 103	4805129M67	Dual
CR108, 109	4802482J02	PIN
CR201	4802245J29	Varactor
CR202	4862824C03	Varactor
CR203	4862824C03	Varactor
CR204, 205	4802233J09	Triple
CR206	4805129M06	Varactor
CR207, 208, 209	4802245J29	Varactor
E101	2484657R01	CORE: Bead, Ferrite
F1	6505757V01	FUSE: 1-Amp.
FL1	4802655J03	FILTER, Crystal; 73.35 MHz
G1	3905643V01	Contact, Antenna Ground
G2	3905643V01	Contact, Ground
J301	0905461X02	JACK: Connector; 20 contacts; to P301 Strip Connector
J401	3905264W01	Contact, Antenna
L6	2462587V29	.039µH
L7	2462587V37	0.15µH

L8	2462587T23	470nH
L9	2462587V27	.027µH
L10	2462587V23	0.12µH
L11	2460591B04	4 turns, airwound
L12	2460591M32	4 turns, airwound
L13	2460591B80	4 turns, airwound
L14, 15	2460591B04	4 turns, airwound
L16	2462587T23	470nH
L20	2462587N61	470nH
L22	2462587T23	0.47µH
L23	2462587Q44	0.56µH
L24	2462587V37	0.15µH
L25	2462587Q20	2.2µH
L30, 31	2460591A01	3 turns, airwound
L32	2460591B04	4 turns, airwound
L34, 35	2460591A01	3 turns, airwound
L36	2462587V36	0.15µH
L37	2462587V24	.015µH
L101	2462587T20	0.27µH
L105	2462587T20	0.27µH
L107, 108	2462587T17	0.15µH
L121, 122	2462587T20	0.27µH
L123	2462587V38	0.22µH
L126, 127, 128	2460591B04	4 turns, airwound
L201	2462587T37	.018µH
L202	2462587Q20	2.2µH
L204	2462587Q42	0.39µH
L205	2462587V25	.018µH
L207	2462587V36	0.15µH
L208, 209	2462587T22	0.39µH
L210	2405619V03	.015µH, molded coil
L211	2405619V07	.009µH, molded coil
L212	2462587V25	0.47µF; 25V
L213, 215	2462587T22	0.39µH
L216	2462587T05	.015µH
L218	2462587T22	0.39µH
L219	2462587T37	.018µH
L220	2462587T39	0.27µH
L221	2462587T22	0.39µH
L222	2462587Q40	0.70µH
L223	2462587Q42	0.39µH
L224	2462587T40	.033µH
L301, 302	2462587Q42	0.39µH
P402	-----	PLUG: Contact, External Antenna; part of RF switch S101
P404	3905861X02	Connector, Battery; 2-pin
Q1, 4	4805218N63	NPN
Q5	4880048M04	PNP
Q101	-----	Not Placed
Q104, 105, 107	4805921T02	PNP NPN
Q108	4802245J10	NPN Dual
Q110	4802245J12	PNP
Q201	4802245J15	JFET
Q202	4805218N55	NPN
R7	0662057A25	100
R16	0662057A59	2.7k
R17	0662057A80	20k
R18	0662057B05	200k
R22, 23	0662057A73	100
R26	-----	Not Placed
R27	0662057A01	10
R32, 33	0662057A59	2.7k
R34, 35	0662057A89	47k
R36	-----	Not Placed
R40	0662057A41	470
R41	0662057A09	22
R42	0662057A41	470
R43	-----	Not Placed
R44	0662057A45	680
R45	0662057A90	51k
R46	0662057A89	47k
R47	0662057A09	22
R48	-----	Not Placed
R49	0662057A77	15k
R50	0662057A53	1.5k
R51	0662057A51	1.2k
R52	0662057A25	100
R53	0662057A73	10k
R102	0662057A65	4.7k
R106	0662057A61	3.3k
R107	-----	Not Placed
R110	0662057A65	4.7k
R111	0662057A49	1k
R113	0662057A85	33k
R114	0662057A77	15k
R115	0660078L28	180k ± 1%; 0.125W

R116	0662057G19	130k ± 1%; 0.1W
R119	0662057B22	1M
R126	0662057A18	51
R127	0662057A12	30
R128	0662057A89	47k
R129	0662057A65	4.7k
R139	0662057A97	100k
R199	0662057B77	0, used in place of S101 on NUE7267B and NUE7275B Not Used, replaced with S101 on NUE7268B and NUE7273B
or -----		
R203	0662057A01	10
R204	0662057A73	10k
R205	0662057A12	15k
R206	0662057A73	10k
R207	0662057A93	68k
R208	0662057A58	2.4k
R209	0662057A41	470
R210	0662057A37	330
R211	0662057A29	150
R212	0662057A46	750
R213	0662057A41	470
R214	0662057A87	39k
R215	0662057A88	43k
R217	0662057A97	15k
R218	0662057A77	100k
R219	0662057B47	0
R220	0662057A56	2k
R221	0662057A51	1.2k
R222	-----	Not Placed
R223	0662057A89	47k
RT101</		

**Electrical Parts List, Transceivers (800MHz)
NUF6394B, NUF6410B, NUF6423B, NUF6497A,
NUF6498A, NUF6500A, AND NUF6501A**

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		CAPACITOR, Fixed: pF ±5%;50V unless stated
C1	2311049J23	10uF
C2	2113932K15	0.1uF
C3	2113741F37	3.3nF
C4	2113740F29	12pF
C5	2113741F37	3.3nF
C6	2113740F43	47pF
C7	2113740F22	6.2pF
C8	2113930F39	33pF
C9	2113932K15	0.1uF
C10	2113740F15	3.3pF
C11	2113930F51	100pF
C12	2113740F15	3.3pF
C13	2311049J23	10uF
C15	2113932E07	.022uF
C16	2113740F24	7.5pF
C19	2113740F41	39pF
C31	2113932E07	.022uF
C34	2113932K15	0.1uF
C35	2113740F43	47pF
C36	2113740F13	2.7pF
C37	2113932E07	.022uF
C38	2113740F17	3.9pF
C40	2113930F51	100pF
C41	2113743A19	0.1uF
C42 thru 45	2113743A23	0.22uF
C46	2113932K15	0.1uF
C47	2109720D14	0.1uF
C48	2113740A70	430pF
C49	2109720D14	0.1uF
C52	2113741A51	.018uF
C53	2311049A02	0.15uF
C54, 55	2113740F41	39pF
C56, 57	2113740F42	43pF
C58	2113740F11	2.2pF
C60	2113932K15	0.1uF
C61	2113930F51	100pF
C62	2113932K15	0.1uF
C65	2113932K15	0.1uF
C72	2113740F41	39pF
C82	2113932E07	.022uF
C83	2113740F41	39pF
C84	2113932E07	.022uF
C85	2311049J23	10uF
C87	2113932K15	0.1uF
C88	4862824C01	5.1pF
C89	4805218N57	.022uF
C90	2113740F41	39pF
C91	2311049J23	10uF
C92	2113932E07	.022uF
C95	2113740F25	8.2pF
C96	2113932K15	0.1uF
C98	2113931F13	330pF
C101, 102	2113930F39	33pF
C103	2311049A07	1uF
C104, 105	2113932E07	.022uF
C107, 108	2113930F39	33pF
C109	-----	Not Placed
C110, 111	2113930F39	33pF
C113	2113930F39	33pF
C114	2113932K15	0.1uF
C115	2113743K16	0.22uF
C116	2113932K15	0.1uF
C117, 118	2113930F39	33pF
C119	2113932E07	.022uF
C120	2113932K15	0.1uF
C121	2113740F34	20pF
C122, 123	2113930F39	33pF
C125	2113932K15	0.1uF
C126	2113932E07	.022uF
C132	2113932E07	.022uF
C133	2311049J23	10uF
C135	2113930F39	33pF
C137	2113930F39	33pF
C138	2113740F34	20pF
C140	2113932E07	.022uF

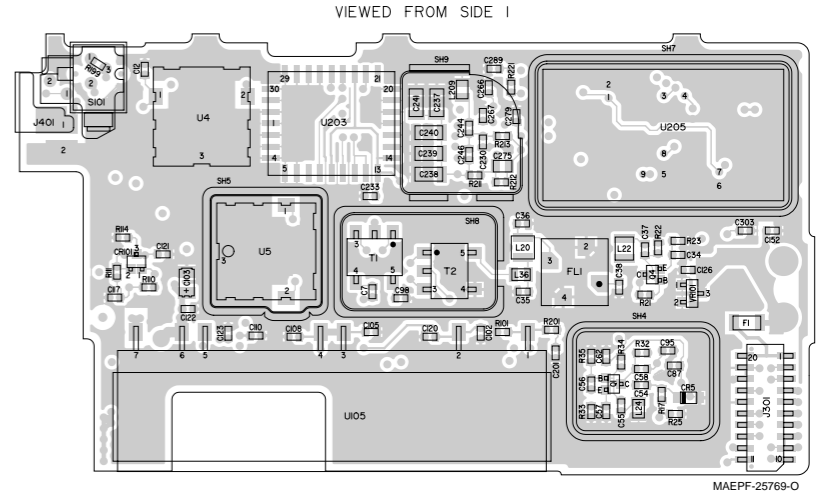
C141	2113740F27	10pF
C149, 150	2113740F12	2.4pF
C151	2113740F34	20pF
C152	2113930F39	33pF
C153	2113740F12	2.4pF
C201	2113740F19	4.7pF
C202	2113740F34	20pF
C204	2113930F39	33pF
C205	2113740F14	3pF
C209	2113932E07	.022uF
C211	2113740F14	3pF
C214	2113932E07	.022uF
C219	2113932E07	.022uF
C225	2113930F39	33pF
C227, 228	2113930F39	33pF
C230, 231	2113930F39	33pF
C233	2113932E07	.022uF
C236	2113932E07	.022uF
C237 thru 241	2109720D14	0.1uF
C244	2113741F18	510pF
C245, 246	2113932E07	.022uF
C247	2105248W02	1200pF
C250	2113932K15	0.1uF
C251	2113930F39	33pF
C253, 254	2311049J23	10uF
C255	2113932E07	.022uF
C256, 257, 258	2113932K15	0.1uF
C260	2113743K07	.047uF
C266, 267	2113741F37	3.3nF
C270	2311049J12	4.7uF
C271	2311049J23	10uF
C274	-----	Not Placed
C275	2113743A13	.047uF
C279	2113932K15	0.1uF
C280	2113932E07	.022uF
C284	2113932E07	.022uF
C289	2113740F42	43pF
C294	2113930F39	33pF
C301	2113932E07	.022uF
C302	2113930F39	33pF
C303	2113741F37	3.3nF
C304 thru 308	2113930F39	33pF
C309	2113741F37	3.3nF
C310	2113930F39	33pF
C311	2113741F37	3.3nF
C312, 313, 314	2113930F39	33pF
CR4	4805218N57	Dual
CR5	4862824C01	Varactor
CR101	4805218N57	Dual
CR103	4805218N57	Dual
CR107, 108, 109	4805129M96	PIN
CR204	4802233J09	Triple
F1	6505757V01	FUSE: 1.0A
FL1	4802655J03	FILTER: See Note 2, 73.35MHZ
G2 thru 5	3905643V01	CONNECTOR: Contact, Ground
J301	0905461X02	JACK: Connector, 20 contacts; to P301
J401	3905264W01	Strip Connector Contact, Antenna
L8	2462587V37	COIL, RF: 180nH
L9	2462897Q40	270nH
L20	2405452C58	820nH
L22	2405452C64	1500nH
L23	-----	Not Placed
L24	2462587V37	180nH
L36	2462587V37	180nH
L105	2462589V28	33nH
L108	2462587V37	180nH
L126	2462587V37	180nH
L127	2405430Y01	6.5nH
L204	2462587V24	15nH
L209	2462587Q59	10uH

P402	-----	PLUG: Contact, External Antenna; part of RF switch S101
P404	3905861X02	Connector, Battery
Q1	4805218N63	TRANSISTOR: See Note 1 NPN
Q4	4805218N63	NPN
Q101	4805128M27	PNP
Q108	4805921T06	Dual PNP
Q110	4805218N45	PNP
R1	0662057A50	1.1k
R3	0662057A25	100
R7	0662057A25	100
R16	0662057A59	2.7k
R17	0662057A80	20k
R21	0662057A73	10k
R22	0662057A85	33k
R23	0662057A53	1.5k
R25	0662057B05	200k
R27	0662057A01	10
R28	0662057A73	10k
R32, 33	0662057A59	2.7k
R34, 35	0662057A89	47k
R36	0662057A42	510
R37	0662057B47	0
R101	0662057A61	3.3k
R102	0662057A67	5.6k
R103	0662057A49	1k
R104	0662057B47	0
R105	-----	Not Placed
R110, 111	0662057A73	10k
R113	0662057A73	10k
R114	0662057A81	22k
R120	0662057A56	2k
R128	0662057A90	51k
R129	0662057C75	1k
R199	0662057B47	0
R201	0662057B47	0, used in place of S101 on NUF6423B and NUF6501A
R211	0662057A18	51
R212	0662057A49	1k
R213	0662057A56	2k
R214	0662057A87	39k
R215	0662057A90	51k
R220	0662057A77	15k
R221, 222	0662057A49	1k
RT101	0605621T02	THERMISTOR: 50k
S101	4005831W01	SWITCH: RF: used on NUF9394B, NUF6410B, NUF6497A, NUF6498A, and NUF6500A Not Used, replaced with R199 on NUF9423B and NUF6501A
T1	2505515V04	TRANSFORMER: Balun; 5:1
T2	2505515V07	Balun; 25:1
U1	5105457W51	MODULE: See Note 1 RF Amp
U2	5105457W52	Mixer
U3	5186296A02	IF
U4, 5	5105279V15	3-Pole Filter
U101	5105835U52	TX ALC
U102	5105835U51	DAC
U104	5105279V26	coupler
U105	5105385Y12	RF PA
U201	5102227J37	VCO/Buffer
U202	5105469E65	V5 Regulator

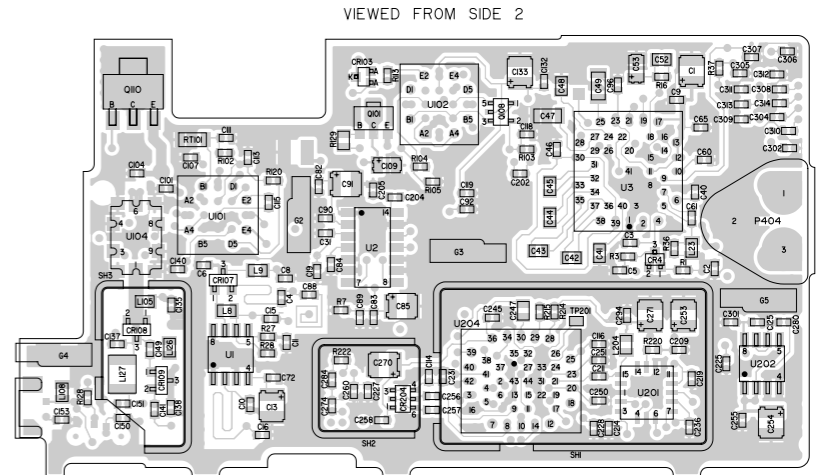
U203	5105385Y43 5105279V38	Ref. Osc., 16.8MHz (NUF6497A) Ref. Osc., 16.8MHz (NUF6394B, NUF6423B, NUF6498A, and NUF6501A)
	5105385Y43	Ref. Osc., 16.8MHz (NUF6410B and NUF6500A)
U204	5105457W81	Synthesizer
U205	5105385Y53	VCO
VR101	4813830A33	DIODE, ZENER: See Note 1 20V
MECHANICAL PARTS		
SH1	2605258V02	SHIELD, Synthesizer
SH2	2605259V01	SHIELD, Diode
SH3	2605260V01	SHIELD, RF Switch
SH4	2605261V01	SHIELD, IF
SH5	2605263V02	SHIELD, 3-Pole Filter
SH7	2605890U02	SHIELD, VCO
SH8	2605418V01	SHIELD, Transformer
SH9	2605540W01	SHIELD, Loop Filter

Notes:

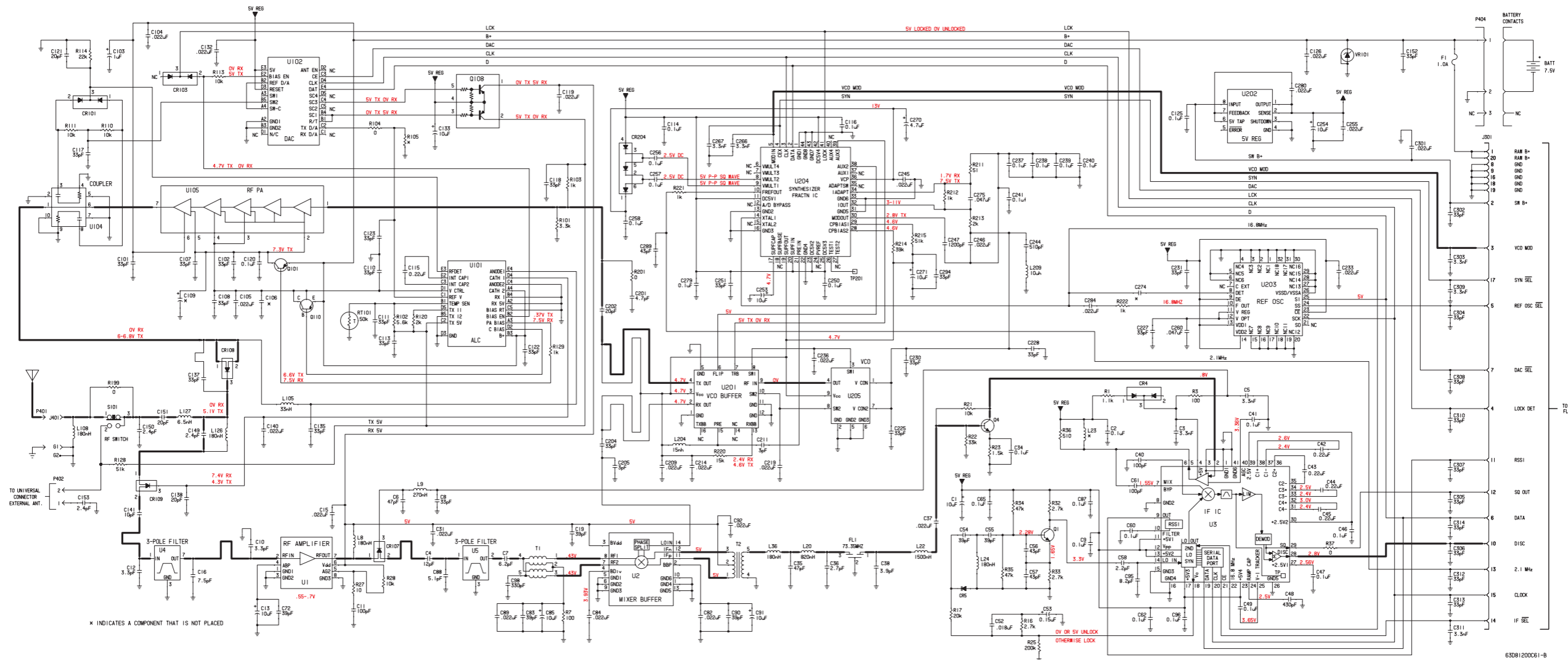
- For optimum performance, order replacement diodes, transistors, and circuit modules by Motorola part number only.
- When ordering crystals, specify carrier frequency, crystal frequency, crystal type number, and Motorola part number.
- "Not Placed" means that components are for future use, and are not placed on the circuit board at this time.



MAEPF-25769-O



MAEPF-25770-A



NUF6394B, NUF6410B, NUF6497A, NUF6423B, NUF6498A, NUF6500A, AND NUF6501A (800MHz) TRANSCEIVER BOARDS' SCHEMATIC DIAGRAM

**Electrical Parts List, Transceivers (800MHz)
NUF6497B, NUF6498B, NUF6500B, NUF6501B**

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		CAPACITOR, Fixed: pF ±5%;50V unless stated
C1	2311049J23	10uF
C2	2113932K15	0.1uF
C3	2113741F37	3.3uF
C4	2113740F29	12pF
C5	2113741F37	3.3nF
C6	2113740F43	47pF
C7	2113740F22	6.2pF
C8	2113930F39	33pF
C9	2113932K15	0.1uF
C10	2113740F15	3.3pF
C11	2113930F51	100pF
C12	2113740F15	3.3pF
C13	2311049J23	10uF
C15	2113932E07	.022uF
C16	2113740F24	7.5pF
C19	2113740F41	39pF
C31	2113932E07	.022uF
C34	2113932K15	0.1uF
C35	2113740F43	47pF
C36	2113740F13	2.7pF
C37	2113932E07	.022uF
C38	2113740F17	3.9pF
C40	2113930F51	100pF
C41	2113743A19	0.1uF
C42 thru 45	2113743A23	0.22uF
C46	2113932K15	0.1uF
C47	2109720D14	0.1uF
C48	2113740A70	430pF
C49	2311049A04	0.33uF
C52	2113741A51	.018uF
C53	2311049A02	0.15uF
C54, 55	2113740F41	39pF
C56, 57	2113740F42	43pF
C58	2113740F11	2.2pF
C60	2113932K15	0.1uF
C61	2113930F51	100pF
C62	2113932K15	0.1uF
C65	2113932K15	0.1uF
C72	2113740F41	39pF
C82	2113932E07	.022uF
C83	2113740F41	39pF
C84	2113932E07	.022uF
C85	2311049J23	10uF
C87	2113932K15	0.1uF
C88	2113740F20	5.1pF
C89	2113743E07	.022uF
C90	2113740F41	39pF
C91	2311049J23	10uF
C92	2113932E07	.022uF
C95	2113740F25	8.2pF
C96	2113932K15	0.1uF
C98	2113931F13	330pF
C101, 102	2113930F39	33pF
C103	2311049A07	1uF
C104, 105	2113932E07	.022uF
C106	-----	Not Placed
C107, 108	2113930F39	33pF
C109	-----	Not Placed
C110, 111	2113930F39	33pF
C113	2113930F39	33pF
C114	2113932K15	0.1uF
C115	2113743K16	0.22uF
C116	2113932K15	0.1uF
C117, 118	2113930F39	33pF
C119	2113932E07	.022uF
C120	2113932K15	0.1uF
C121	2113740F34	20pF
C122, 123	2113930F39	33pF
C125	2113932K15	0.1uF
C126	2113932E07	.022uF
C132	2113932E07	.022uF
C133	2311049J23	10uF
C135	2113930F39	33pF
C137	2113930F39	33pF
C138	2113740F34	20pF

C140	2113932E07	.022uF
C141	2113740F27	10pF
C142	2113740F12	2.4pF
C151	2113740F34	20pF
C152	2113930F39	33pF
C153	2113740F12	2.4pF
C201	2113740F19	4.7pF
C202	2113740F34	20pF
C204	2113930F39	33pF
C205	2113740F14	3pF
C209	2113932E07	.022uF
C211	2113740F14	3pF
C214	2113932E07	.022uF
C219	2113932E07	.022uF
C225	2113930F39	33pF
C227, 228	2113930F39	33pF
C230, 231	2113930F39	33pF
C233	2113932E07	.022uF
C236	2113932E07	.022uF
C237 thru 241	2109720D14	0.1uF
C244	2113741F18	510pF
C245, 246	2113932E07	.022uF
C247	2105248W02	1200pF
C250	2113932K15	0.1uF
C251	2113930F39	33pF
C253, 254	2311049J23	10uF
C255	2113932E07	.022uF
C256, 257, 258	2113932K15	0.1uF
C260	2113743K07	0.47uF
C266, 267	2113741E37	3.3nF
C270	2311049J12	4.7uF
C271	2311049J23	10uF
C274	-----	Not Placed
C275	2113743A13	.047uF
C279	2113932K15	0.1uF
C280	2113932E07	.022uF
C284	2113932E07	.022uF
C289	2113740F42	43pF
C294	2113930F39	33pF
C301	2113932E07	.022uF
C302	2113930F39	33pF
C303	2113741E37	3.3nF
C304 thru 308	2113930F39	33pF
C309	2113741E37	3.3nF
C310	2113930F39	33pF
C311	2113741E37	3.3nF
C312, 313, 314	2113930F39	33pF
CR4	4805218N57	Dual
CR5	4862824C01	Varactor
CR101	4805218N57	Dual
CR103	4805218N57	Dual
CR107, 108, 109	4805129M96	PIN
CR204	6002233J09	Triple
F1	6505757V01	FUSE: 1.0A
FL1	4802655J03	FILTER: See Note 2, 73.35MHZ
G2 thru 5	3905643V01	CONNECTOR: Contact, Ground
J301	0905461X02	JACK: Connector, 20 contacts; to P301 Strip Connector, Antenna
J401	3905264W01	CONNECTOR: Contact, Antenna
L8	2462587V37	180nH
L9	2462987Q40	270nH
L20	2405452C58	820nH
L22	2405452C64	1500nH
L23	-----	Not Placed
L24	2462587V37	180nH
L36	2462587V37	180nH
L105	2462589V28	1105
L108	2462587V37	180nH
L126	2462587V37	180nH
L127	2405430V01	6.5nH
L204	2462587V24	15nH

L209	2462587Q59	10uH
P402	-----	-----
P404	3905861X02	CONNECTOR, External Antenna; part of RF switch S101 Connector, Battery
Q1	4805218N63	NPN
Q4	4805218N63	NPN
Q5	4880048M04	PNP
Q101	4805128M27	PNP
Q108	4805921T06	Dual PNP
Q110	4805218N45	PNP
R1	0662057A50	1.1k
R3	0662057A25	100
R7	0662057A25	100
R16	0662057A59	2.7k
R17	0662057A80	20k
R21	0662057A73	10k
R22	0662057A85	33k
R23	0662057A53	1.5k
R25	0662057B05	200k
R27	0662057A01	10
R28	0662057A73	10k
R32, 33	0662057A59	2.7k
R34, 35	0662057A89	47k
R36	0662057A42	510
R37	0662057B47	0
R101	0662057A61	3.3k
R102	0662057A67	5.6k
R103	0662057A49	1k
R104	0662057B47	0
R105	-----	Not Placed
R110, 111	0662057A73	10k
R113	0662057A73	10k
R114	0662057A81	22k
R120	0662057A56	2k
R128	0662057A90	51k
R129	0662057C75	1k
R199	0662057B47	0, used in place of S101 on NUF6501B
R201	0662057B47	0 ohms
R211	0662057A18	51
R212	0662057A49	1k
R213	0662057A56	2k
R214	0662057A87	39k
R215	0662057A90	51k
R220	0662057A77	15k
R221, 222	0662057A49	1k
RT101	0605621T02	THERMISTOR: 50k
S101	4005831W01	SWITCH: RF, used on NUF6497B, NUF6498B, and NUF6500B Not Used, replaced with R199 on NUF6501B
T1	2505515V04	TRANSFORMER: Balun; 5:1
T2	2505515V07	TRANSFORMER: Balun; 25:1
U1	5105457W51	MODULE: See Note 1 RF Amp
U2	5105457W52	Mixer
U3	5186296A02	IF
U4, 5	5105279V15	3-Pole Filter
U101	5105835U52	TX ALC
U102	5105835U51	DAC
U104	5105279V26	coupler
U105	5105385Y12	RF PA
U201	S102227J37	VCO/Buffer
U202	5105469E65	SV Regulator

U203	5105385Y43 5105279V38	Ref. Osc., 16.8MHz (NUF6497B) Ref. Osc., 16.8MHz (NUF6498B and NUF6501B)
U204 U205	5105385Y43 5105457W81 5105385Y53	Ref. Osc., 16.8MHz (NUF6500B) Synthesizer VCO
VR101	4813830A33	DIODE, ZENER: See Note 1 20V
MECHANICAL PARTS		
SH1	2605258V02	SHIELD, Synthesizer
SH2	2605259V01	SHIELD, Diode
SH3	2605260V01	SHIELD, RF Switch
SH4	2605261V01	SHIELD, IF
SH5	2605263V02	SHIELD, 3-Pole Filter
SH7	2605890U02	SHIELD, VCO
SH8	2605418V01	SHIELD, Transformer
SH9	2605540W01	SHIELD, Loop Filter

Notes:

- For optimum performance, order replacement diodes, transistors, and circuit modules by Motorola part number only.
- When ordering crystals, specify carrier frequency, crystal frequency, crystal type number, and Motorola part number.
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