

MAIN AND VCO UNITS

KG208-08A

66-88 MHZ BAND

COMPLETE UNIT (SPECIFY BAND)

C1 24 PF
 C2, 470 PF
 C3,C15,C23 12 PF
 C4 .5 PF
 C5,C18 1000 PF
 C6 .1 UF
 C7,C11 33 PF
 C8,C33,C46,C47,C60, C61,C129 470

 C9,C12,C13,C22,C24,C27,C28 1000 PF
 C14 100 PF
 C16 5 PF
 C17,C29 5 PF
 C20,C42,C72 100 PF
 C21,C25,C36 22 PF
 C26 15 PF
 C30 .68 UF
 C31 .027 UF
 C32 390 PF
 C34,C54,C68 .01 UF
 C35,C56,C67,C81,C82,C84,C85,C89,
 C91, 1 UF
 C36 22 PF
 C37 2200 PF
 C38,C69,C78,C79,C86 47 PF
 C39,C40, C41,C43,C50,C64,C75, C90
 C94,C97 .047 UF
 C44 1 UF
 C45,C59, C93 .001 UF
 C48,C53,C55,C76 .015 UF
 C49,C51, 47 PF
 C54 .022 UF
 C57,C62,C95 .1 UF
 C58 .22 UF
 C63 .5 PF
 C65,C71,C80,C96 1 PF
 C66,C87 2.2UF
 C70 220 PF
 C74 6800 PF
 C77 8200 PF
 C83 .47 UF
 C87 2.2 UF
 C88 3300 PF
 C95 .1 UF
 C98,C99 4.7 PF

 C100 .047 UF
 C101,C103,C107,C108 1 UF
 C102 .47 UF

208MP87X
 GRM40CH240J50PT
 GRM40B471K50PT
 GRM40CH120J50PT
 GRM40CK0R5J50PT
 GRM40B102K50PT
 GRM40B104K25PT
 GRM40CH330J50PT
 GRM40B471K50PT

 GRM40B102K50PT
 GRM40CH100D50PT
 GRM40CH050C50PT
 GRM40CH050C50PT
 GRM40CH101J50PT
 GRM40CH220J50PT
 GRM39CH150J50PT
 ECST1CY684R
 GRM40B273K50PT
 GRM40CH391J50PT
 GRM40B103K50PT
 ECST1CY105R

 GRM40CH220J50PT
 GRM40B222K50PT
 GRM40CH470J50PT
 GRM40B473K25PT

 ECST1CP105R
 GRM40B102K50PT
 GRM40B153K50PT
 UWT1C470MCR1GB
 GRM40B472K50PT
 GRM42-6B104K50PT
 ECST1VY224R
 GRM40CK0R5B50PT
 UWP1H010MCR1GB
 ECST1CY225R
 GRM40CH221J50PT
 GRM40B682K50PT
 GRM40B823K25PT
 ECST1DP474R
 ECST1CY225R
 GRM40B332K50PT
 GRM42-6B104K50PT
 UWT1E4R7MCR1GB

 GRM40B473K25PT
 ECST1CP105R
 ECST1DP474R

C104,C114,C115,C117,C119,C124,
 C126,C132,C141,C142,C143,C149,
 C150,C151,C152,C157,C160 .001 UF

C105,C160 1000 UF
 C106,C111 470 UF
 C108 1 UF
 C112, C120 33 PF
 C116
 C118 7 PF
 C121
 C123 33 PF
 C125,C163,C165 4.7 PF
 C127 1 PF
 C128,C130 33 PF
 C131 56 PF
 C133 47 PF
 C134 7 PF
 C135,C136 10 PF
 C137 5 PF
 C138,C139 1 PF
 C140 2 PF
 C144 4.7 PF
 C145 2.2 UF

 C153,C154 100 UF

C158, 470 PF
 C159 .047 UF
 C161 1 UF
 C162 .01 UF
 C163
 C167
 C4AT
 C5AT

CD1 DISCRIMINATOR
 CF1 LO IF CERAMIC FILTER, 455 KHz
 CF2 LO IF CERAMIC FILTER, 455 KHz

CN1S CONN.
 CN2S CONN. VCO
 CN3S CONN. KEYPAD
 CN4S CONN. CONTROL UNIT
 CN5S CONN. LOGIC UNIT
 CN6S CONN. LOGIC UNIT
 CN7P CONN. ACCY. JACK
 CN8P CONN. ACCY. JACK
 CN10S CONN. ACCY.
 CN10P CONN. ACCY./ SPKR JUMPER
 CN15P CONN. DCS

D1
 D2
 D3
 D4
 D5,D6

GRM40B102K50PT

 KMG16VB-1000M
 KMG35VB-470M
 ECST1CY105R
 GRM40CH680J50PT
 GRM40CH680J50PT
 GRM40CH680J50PT
 GRM40CH330J50PT
 UWT1E330MCR1GB
 UWT1E4R7MCR1GB
 GRM40CK010B50PT
 GRM40CH330J50PT
 GRM40CH560J50PT
 UC342H4700J
 UC232H0560J
 UC232H0680J
 UC232H0330J
 UP050SL3R9M/NAC
 UP050SL020M/NAC
 UWT1E4R7MCR1GB
 ECST1CY225R

 KMG16VB-100M

 GRM40B471K50PT
 GRM40B473K25PT
 EST1CY105R
 GRM40B103K50PT
 UWT1E4R7MCR1GB
 GRM40B471K5-PT
 GRM40CH180J50PT
 GRM40CH270J50PT

CDBM455C7
 CFUM455G
 CFWM455E

5124-04BHPB
 5124-06BHPB
 4A-S498
 4A-S497
 LPC-22FD
 LPC-22FD
 53014-0810
 53014-0310
 4A-S412
 4A-S413
 236A-08-90-134

1SV232-TPH3
 1SV231-TPH3
 1SV231-TPH3
 1SV232-TPH3
 1SS271-TE85R

D7, D8,D11,D14,D16,D17,D19,D30,D34	1SS355	PM1 PA MODULE	M67742-01
D9,D10	DAN217K-T146	PS1 THERMAL PA CONTROL	PTH9C32BB471Q-T
D12,D13	1SS356-TW11		
D18	1SS181-TE85R	Q1 RF AMP	3SK177-T1-U72
D21	UDZ2.2B-TE17	Q2 PTT/RX MUTE	DTA144EUA-T106
D22	DF10SC4M(4100)	Q3 HI IF AMP	2SK508-T1B-K53
D23	1SR154-400TE25	Q4 HI IF AMP	2SC4250-TE85R
D24	DAN235K-T146	Q5 PLL CONTROL	2SK1133
D26,D28	1SS357-TPH3	Q6 PLL CONTROL	2SJ-166-T1B
D27,D32	UM9401F	Q7 PLL CONTROL	UMC2-TR
D29	UM9415	Q8 MIC MUTE	IMX1-T110
D33	MA8056-HM(TX)	Q9 TONE N / W MOD CONTROL	DTC314TK-T146
FVC1 10 PF POWER BALANCE	TZ03T200FR169	Q10 SQUELCH GATE	2SK209-Y-TE85R
FVC2 20 PF CLOCK ADJUST	CTZ2E-20C-W2P	Q11 UNLOCK CONTROL	FMG9A-T148
FVR1 20K INTERNAL SQUELCH	EVM-7JSX30B24	Q12 TX CONTROL	1MX1-T110
FVR2 20K MODULATION	EVM-7JSX30B24	Q13 DECODE HORN SWITCH	RN6001-TE12R,C
FVR5 TONE MODULATION	EVM-7JSX30B15	Q14 DECODE HORN CONTROL	DTC314TK-T146
FVR7 10K LOW PWR ADJUST	CHIP VR G3AT 10K	Q15 PA DC SWITCH	2SA1771
FVR8 2K HIGH PWR ADJUST	EVM-7JSX30B23	Q16 DC POWER CONTROL	2SA1434-TB
FVR9 VSWR PROTECT ADJUST	EVM-7JSX30B23	Q17 PRE DRIVER AMP	2SC3356-T1B
IC1 LOW IF / SQUELCH / DETECTOR	TK10487M-TR	Q18 DRIVER AMP	2SC1947-01
IC2 BUSY LOGIC	BU4S81-TR	Q19 DRIVER / POWER CONTROL	2SB906-Y-TE16L
IC3 PLL	MBM1505PF-G-BND-TF	Q20 POWER CONTROL	IMX1-T110
IC4 DCT / SQUELCH	TS272CD	Q21 POWER CONTROL	DTB143EK-T146
IC5 UNLOCK SWITCH	BU4S66-TR	Q22 POWER CONTROL	RN1507-TE85R
IC8 AUDIO PROCESSOR	AK2342B	Q23 POWER SWITCH	DTC124EUA-T107
IC9 VOLUME CONTROL CHIP	M5222FP-600C	Q24 AUDIO B+ FILTER	2SC4684-TE16R
IC10 5 V REG	AN78L05M	Q25 SWITCH	UMC2-TR
IC11 AUDIO PA	LA4425A	Q26 N / W MOD CONTROL	2SA1434-TB
IC12 5V REG	TA78M05F-TE16L	Q27 N / W BPF FILTER SWITCH	DTC314TK-T146
IC13 POWER CONTROL	PQ12RH11	Q28 N / W BPF FILTER SWITCH	2SK209-Y-TE85R
IC14 STOP CONTROL	NJM2405M-T1	Q29 N / W DISC CONTROL	2SK209-Y-TE85R
IC15 PA POWER CONTROL	TA75S01F-TE85R	Q30 BEEP AMP	RN1403-TE85R
L1, L6 RF TUNE	#3087		
L2, L5 RF TUNE	#3088	R1,R2 100K	MCR10EZHJ104
L3 1 UH	ELJ-NA4R7JF	R3 10K	MCR10EZHJ103
L7 .1 UH	LQN1AR10J04	R4 1.8K	MCR10EZHJ152
L8 .47 UH	ELJ-NCR47KF	R5 270	MCR10EZHJ181
L9 1.5 UH	ELJ-NA1R5MF	R6 15K	MCR10EZHJ153
L11 .47 UH	ELJ-NAR47MF	R7, R8 470	MCR10EZHJ470
L12 .68 UH	NL322522TR68J	R9 , R11 100K	MCR10EZHJ104
L13, L14,L25	BLM21B421SPT	R10 10	MCR10EZHJ100
L15	#1092(R12-H510Y)	R12 56	MCR10EZHJ560
L16	4A-S418	R13 6.8K	MCR10EZHJ682
L17,L18,L26	FBA04VB450KD-00	R14 270	MCR10EZHJ271
L19 LPF	4A-S547	R15 22K	MCR10EZHJ223
L20 LPF	4A-S546	R16 100	MCR10EZHJ101
L21 LPF	4A-S544	R17 15K	MCR10EZHJ153
L22 LPF	4A-S545	R18 82K	MCR10EZHJ823
L23 LPF	4A-S544	R19 18K	MCR10EZHJ183
L24	4A-S419	R20 1K	MCR10EZHJ102
L27	4A-S369B	R21 1.2K	MCR10EZHJ122
LF1 POWER FILTER	BNX 002-01	R22 82K	MCR10EZHJ823
OSC1 12.0 MHZ VCXO	VT50P-14	R23,R24, 10K	MCR10EZHJ103
		R25 2.7K	MCR10EZHJ272
		R26 1K	MCR10EZHJ102

R27	390K	MCR10EZHJ394	R81	120K	MCR10EZHJ124
R28	820	MCR10EZHJ821	R82	10K	MCR10EZHJ103
R29	10K	MCR10EZHJ103	R83	12K	MCR10EZHJ123
R30	1K	MCR10EZHJ102	R84	220K	MCR10EZHJ224
R31	2.7K	MCR10EZHJ272	R85	1M	MCR10EZHJ105
R32	3.9K	MCR10EZHJ392	R86	330K	MCR10EZHJ334
R33	10K	MCR10EZHJ103	R87	10K	MCR10EZHJ103
R34	47K	MCR10EZHJ473	R88	18K	MCR10EZHJ183
R35	1K	MCR10EZHJ102	R89	270K	MCR10EZHJ274
R36	10K	MCR10EZHJ103			
R37	47	MCR10EZHJ470	R90	39K	MCR10EZHJ393
R38	39K	MCR10EZHJ393	R91	18K	MCR10EZHJ183
R39	100	MCR10EZHJ101	R92,R93	22K	MCR10EZHJ223
R40	680	MCR10EZHJ471	R94	3.3K	MCR10EZHJ332
R41	2.7K	MCR10EZHJ272	R95	470K	MCR10EZHJ474
R42	1M	MCR10EZHJ105	R96	4.7K	MCR10EZHJ472
R43	18K	MCR10EZHJ183	R97	270K	MCR10EZHJ274
R44	27K	MCR10EZHJ273	R98	47K	MCR10EZHJ473
R45	8.2K	MCR10EZHJ102	R99	10K	MCR10EZHJ103
R46	18K	MCR10EZHJ183			
R47	39K	MCR10EZHJ393	R100	10K	MCR10EZHJ103
R48	4.7K	MCR10EZHJ472	R101	1.5K	MCR10EZHJ152
R49	1K	MCR10EZHJ102	R102	56K	MCR10EZHJ563
			R104	4.7K	MCR10EZHJ472
R50	470	MCR10EZHJ471	R105	10K	MCR10EZHJ103
R51	27K	MCR10EZHJ273	R106, 107	1.5K	MCR10EZHJ152
R52	4.7K	MCR10EZHJ472	R108	4.7	MCR50EZHJ4R7
R53	10K	MCR10EZHJ103	R109	470	MCR10EZHJ471
R54	100K	MCR10EZHJ104			
R55	4.7K	MCR10EZHJ472	R110	4.7K	MCR10EZHJ472
R56	10K	MCR10EZHJ103	R111	220	MCR10EZHJ221
R57	220	MCR10EZHJ221	R112	180K	MCR10EZHJ184
R58	100K	MCR10EZHJ104	R113	12K	MCR10EZHJ123
R59	4.7K	MCR10EZHJ472	R114,R115	27K	MCR10EZHJ273
			R116	1M	MCR10EZHJ105
R60	120K	MCR10EZHJ124	R117	3.3K	MCR10EZHJ332
R61	150K	MCR10EZHJ394	R118	4.7	MCR18EZHJ4R7
R62	51K	MCR10EZHJ513	R119	10	MCR10EZHJ100
R63	100K	MCR10EZHJ104			
R64	150K	MCR10EZHJ154	R120	4.7	MCR10EZHJ4R7
R65	47K	MCR10EZHJ473	R121,R122	330	MCR10EZHJ331
R66	330	MCR03EZHJ331	R123	2.7K	MCR10EZHJ272
R67	68K	MCR10EZHJ683	R124,R125	4.7	MCR10EZHJ4R7
R68	47K	MCR10EZHJ473	R126	470	MCR10EZHJ471
R69	390K	MCR10EZHJ394	R127	22	MCR10EZHJ220
			R128	100	MCR10EZHJ151
R70	68K	MCR10EZHJ683	R129	0.0 JUMPER	MCR10EZHJ000
R71	47K	MCR10EZHJ473			
R72	100K	MCR10EZHJ104	R130	2.2K	MCR10EZHJ222
R73	100K	MCR10EZHJ104	R131	39K	MCR10EZHJ393
R74	56K	MCR10EZHJ563	R132	470	MCR18EZHJ471
R75	330K	MCR10EZHJ334	R133	10	MCR18EZHJ4R7
R76,R78,R79	100K	MCR10EZHJ104	R134	4.7	MCR10EZHJ4R7
R77	470K	MCR10EZHJ474	R135	330	MCR10EZHJ331
			R136	1.5K	MCR10EZHJ102
R80	22K	MCR10EZHJ223	R137	6.8K	MCR10EZHJ682

R138 75	MCR10EZHZJ331	C303, C304 22 PF	GRM40CH220J50PT
R139 120	MCR10EZHZJ121	C305 22 PF	GRM40CH220J50PT
		C306 1.5 PF	GRM40CK1R5J50PT
R140 270	MCR100EZHZJ271	C307 100 PF	GRM40CH101J50PT
R141 150	MCR10EZHZJ151	C308 1000PF	GRM40B102K50PT
R142 470	MCR10EZHZJ471	C309 1000PF	GRM40B102K50PT
R143 1K	MCR10EZHZJ102	C310 56 PF	GRM40CH560J50PT
R144 3.9K	MCR10EZHZJ392	C311 15 PF	GRM40CH150J50PT
R145 100K	MCR10EZHZJ104	C313 4 PF	GRM40CH040C50PT
R146 2.2K	MCR10EZHZJ222	C314 100 PF	GRM40CH101J50PT
R148 1K	MCR10EZHZJ102	C315 1000 PF	GRM40B102K50PT
R149 4.7K	MCR10EZHZJ472	C316 6 PF	GRM40CH060D50PT
R150 47	MCR10EZHZJ470	C318 1.5 PF	GRM40CK1R5J50PT
R151 1K	MCR10EZHZJ102	C319 2 PF	GRM40CK020C50PT
R152 470	MCR10EZHZJ471	C320 470 PF	GRM40B471K50PT
R153 1K	MCR10EZHZJ102	C321 1 UF	ECST1CP105R
R154 47K	MCR10EZHZJ473	C322 1000 PF	GRM40B102K50PT
R155 20K	MCR10EZHZJ203	C323 3 PF	GRM40CJ030J50PT
R156,R157 10K	MCR10EZHZJ103	C324 15 PF	GRM40CH150J50PT
R158 470K	MCR10EZHZJ474	C325 33 PF	GRM40CH330J50PT
R159 270K	MCR10EZHZJ274	C326 1000 PF	GRM40B102K50PT
		C327 470 PF	GRM40B471K50PT
R160,R161 10K	MCR10EZHZJ103	C328 1000 PF	GRM40B102K50PT
R162 4.7K	MCR10EZHZJ472	C329 47 PF	GRM40CH470J50PT
R163 10K	MCR10EZHZJ103	C330 3 PF	GRM40CK030C50PT
R165 100	MCR10EZHZJ101	C331 1000 PF	GRM40B102K50PT
R166 270	MCR10EZHZJ271	C332 470 PF	GRM40B471K50PT
R168 10K	MCR10EZHZJ103	C333 1000 PF	GRM40B102K50PT
R169 2.7K	MCR10EZHZJ272	C334 47 PF	GRM40CH470J50PT
		C335 3 PF	GRM40CJ030J50PT
R170 0 JUMPER	MCR18EZHZJ000	C336 47 UF	UWT1C470MCR1GB
R171 1K	MCR10EZHZJ102	C337 10 UF	ECST1AB106R
R172 22	MCR10EZHZJ220	C338 47 UF	UWT1C470MCR1GB
R173 39K	MCR10EZHZJ393	C341 .047 UF	GRM42-6B473K25PT
R174 47K	MCR10EZHZJ473	C342 2 PF	GRM40CK020C50PT
R175 100K	MCR10EZHZJ104	C343 10 UF	ECST1CP105R
R177,R178 10K	MCR10EZHZJ103	C346 5 PF	GRM40CH050C50PT
		C347 18 PF	GRM40CH180J50PT
		C348 15 PF	GRM40CH150J50PT
T1 MIXER	#3060		
T2 MIXER	#3060	CN4P 6 POS INPUT	HKP4M5WS
T3 HI IF	M7-T1(31302)	CN5P 4 POS OUTPUT	HKP6M5WS
TP1 TEST POINT, RF/IF	DIC-149-3P		
TP2 PLL TEST POINT	RCT	D301,D311 VARACTOR, RX CONTROL	1SV231-TPH3
TP3 DCS TEST POINT	RCT	D302 VARACTOR, TX CONTROL	1SV231TPH3
		D303 VARACTOR, MOD CONTROL	MA377-TX
X1 LOW IF CONV. 48.045 MHZ	48.045MHZ	D304 MOD BALANCE	1SV229-TPH3
X2 AUDIO PROC. CLOCK	3.6864MHZ(SMD)	D305 ZENER REG.	MA8056-HM(TX)
XF1 HI IF FILTER 48 MHZ	48S15A	D306 T/R SWITCH	DAN235K-T146
XF2 HI IF FILTER 48 MHZ	48S15A	D307 T/R SWITCH	DAN202K-T146
BPF CAVITY-108	4A10-2168	D308 PTT	DAN217K-T146
		D310 CHIP DIODE	1SV230-TPH3
		D312 VARACTOR, TX CONTROL	1SV229
		D313 CHIP DIODE	1SV231-TPH3
VCO PARTS KG208-08A BAND			
COMPLETE VCO (SPECIFY BAND)	208VC849	FVR301 MOD BALANCE 100K	EVM-7JSX30B25
C301 82 PF	GRM40RH820J50PT	IC301 AMP	UPC1688G-T1
C302 7 PF	GRM40CH070D50PT		

L301 RX OSC	#3091
L302 4.7 UH	ELJ-NA4R7JF
L303, L304, 1 UH	ELJ-NA1ROMF
L305 TX OSC	#3092
L306 4.7 UH	ELJ-NA4R7JF
L307 1UH	ELJ-NA1R0MF
L308 3.3 UH	ELJ-NA3R3JF
L309 TX OUT	#1092(R12-H693Y)
L310 RX OUT	#1092(R12-H693Y)
L311	ELJ-NA4R7JF
Q301 RX OSC	2SK508-T1B-K53
Q302 TX OSC	2SK508-T1B-K53
Q303 REGULATOR/FILTER	2SC3624-T1B-L17
Q304 SWITCH	RN2402-TE85R
Q305 SWITCH	RN2402-TE85R
Q306 RX AMP	2SC3583-T1B-R34
Q307 TX AMP	2SC3583-T1B-R34
Q308 FILTER	2SC3624-T1B-L17
R301 470	MCR10EZHJ471
R302 47	MCR10EZHJ470
R303 150	MCR10EZHJ150
R304 1.1K	MCR10EZHJ112
R305 47	MCR10EZHJ470
R306 33	MCR10EZHJ330
R307 100K	MCR10EZHJ104
R308 82K	MCR10EZHJ823
R310 1K	MCR10EZHJ102
R311 220	MCR10EZHJ221
R312 100	MCR10EZHJ101
R313 1K	MCR10EZHJ102
R314 2.2K	MCR10EZHJ222
R315 1K	MCR10EZHJ102
R316 150	MCR10EZHJ150
R317 56	MCR10EZHJ560
R318 4.7	MCR10EZHJ4R7
R319 1.5K	MCR10EZHJ152
R320 47	MCR10EZHJ470
R321 4.7	MCR10EZHJ4R7
R322 270	MCR10EZHJ271
R323 1K	MCR10EZHJ102
R324 2.2K	MCR10EZHJ222
R325 0 JUMPER	MCR10EZHJ000
R326 56	MCR10EZHJ560
R327 4.7	MCR10EZHJ4R7
R328 560	MCR10EZHJ561
R329 47	MCR10EZHJ470
R330, R331 10K	MCR10EZHJ103
R332 4.7K	MCR10EZHJ472
R333 270	MCR10EZHJ271
R334 4.7	MCR10EZHJ4R7
R335 820	MCR10EZHJ821
TH301 THERMISTOR 4.7K	TN20-3W472KT
TH302 THERMISTOR 10K	TN20-3H103KT

MAIN & VCO UNITS

KG208-15B

146-174 MHZ BAND

*SEE SCHEMATIC FOR A BAND

COMPLETE UNIT (SPECIFY BAND)

C1 27 PF

*C2, 1.5 PF

C3,*C15,C23 33 PF

C4 .5 PF

C5,C18 2 PF

C6 .1 UF

C7,C11 8 PF

C8,C33,C46,C47,C60, C61,C129 470

C9,C12,C13,C22,C24,C27,C28 1000 PF

C14 .5 PF

*C16 3 PF

C17,C29 27PF

C20,C42,C72 100 PF

C21,C25,C36 22 PF

C26 15 PF

C30 .68 UF

C31 .027 UF

C32 390 PF

C34,C54,C68 .01 UF

C35,C56,C67,C81,C82,C84,C85,C89,

C91, 1 UF

C36 22 PF

C37 2200 PF

C38,C69,C78,C79,C86 47 PF

C39,C40, C41,C43,C50,C64,C75, C90

C94,C97 .047 UF

C44 1 UF

C45,C59, C93 .001 UF

C48,C53,C55,C76 .015 UF

C49,C51, 47 PF

C54 .022 UF

C57,C62,C95 .1 UF

C58 .22 UF

C63 .5 PF

C65,C71,C80,C96 1 UF

C66,C87 2.2UF

C70 220 PF

C74 6800 PF

C77 8200 PF

C83 .47 UF

C87 2.2 UF

C88 3300 PF

C95 .1 UF

C98,C99 4.7 PF

C100 .047 UF

C101,C103,C107,C108 1 UF

C102 .47 UF

C104,C114,C115,C117,C119,C124,

208MPV77

GRM40CH270J50PT

GRM40CK1R5J50PT

GRM40CH330J50PT

GRM40CK0R5J50PT

GRM40CK020C50PT

GRM42-6B104K50PT

GRM40CH080D50PT

GRM40B471K50PT

KMG16VB-1000M

GRM40CK0R5C50PT

GRM40CK030C50PT

GRM40CH270J50PT

GRM40CH101J50PT

GRM40CH220J50PT

GRM39CH150J50PT

ECST1CY684R

GRM40B273K50PT

GRM40CH391J50PT

GRM40B103K50PT

ECST1CY105R

GRM40CH220J50PT

GRM40B222K50PT

GRM40CH470J50PT

GRM40B473K25PT

ECST1CP105R

GRM40B102K50PT

GRM40B153K50PT

UWT1C470MCR1GB

GRM40B223K25PT

GRM42-6B104K50PT

ECST1VY224R

GRM40CK0R5B50PT

UWP1H010MCR1GB

ECST1CY225R

GRM40CH221J50PT

GRM40B682K50PT

GRM40B823K25PT

ECST1DP474R

ECST1CY225R

GRM40B332K50PT

GRM42-6B104K50PT

UWT1E4R7MCR1GB

GRM40B473K25PT

ECST1CP105R

ECST1DP474R

GRM40B102K50PT

C126,C132,C141,C142,C143,C149,
C150,C151,C152,C157,C160 .001 UF

C105 1000 UF

C106,C111 470 UF

C108 1 UF

C112, C120 33 PF

C118 7 PF

C122,C161 1 UF

C123 33 UF

C125,C163,C165 4.7 PF

C127 .5 PF

C128,C130 3 PF

*C131 18 PF

C133 47 PF

C134 7 PF

C135,C136 10 PF

C137 5 PF

*C138, *C139 1 PF

*C140 2 PF

C144 4.7 PF

C145 2.2 UF

C153,C154 100 UF

C158, 470 PF

C159 .047 UF

C162 .01 UF

CD1 DISCRIMINATOR

CF1 LO IF CERAMIC FILTER, 455 KHz

CF2 LO IF CERAMIC FILTER, 455 KHz

CN1S CONN.

CN2S CONN. VCO

CN3S CONN. KEYPAD

CN4S CONN. CONTROL UNIT

CN5S CONN. LOGIC UNIT

CN6S CONN. LOGIC UNIT

CN7P CONN. ACCY. JACK

CN8P CONN. ACCY. JACK

CN10S CONN. ACCY.

CN10P CONN. ACCY./ SPKR JUMPER

CN15P CONN. DCS

D1

*D2

D3

D4

D5,D6

D7, D8,D11,D14,D16,D17,D19,D30,D34

D9,D10

D12,D13

D18

D21

D22

KMG16VB-1000M

KMG35VB-470M

ECST1DP105R

GRM40CH330J50PT

GRM40CH070J50PT

ECST1CY105R

UWT1E330MCR1GB

UWT1E4R7MCR1GB

GRM40CK0R5B50PT

GRM40CJ030J50PT

GRM40CH180J50PT

UC342H4700J

UC232H0070D

UC232H0100D

UC232H0050D

UP050SL010M/NAC

UP050SL020M/NAC

UWT1E4R7MCR1GB

ECST1CY225R

KMG16VB-100M

GRM40B471K50PT

GRM40B473K25PT

GRM40B103K50PT

CDBM455C7

CFUM455G

CFWM455E

5124-04BHPB

5124-06BHPB

4A-S498

4A-S497

LPC-22FD

LPC-22FD

53014-0810

53014-0310

4A-S412

4A-S413

236A-08-90-134

1SV232-TPH3

1SV230-TPH3

1SV230-TPH3

1SV230-TPH3

1SS271-TE85R

1SS355

DAN217K-T146

1SS356-TW11

1SS181-TE85R

UDZ2.2B-TE17

DF10SC4M(4100)

D23	1SR154-400TE25	Q5	PLL CONTROL	2SK1133
D24	DAN235K-T146	Q6	PLL CONTROL	2SJ-166-T1B
D26,D28	1SS357-TPH3	Q7	PLL CONTROL	UMC2-TR
D27,D32	UM9401F	Q8	MIC MUTE	IMX1-T110
D29	UM9415	Q9	TONE N / W MOD CONTROL	DTC314TK-T146
D33	MA8056-HM(TX)	Q10	SQUELCH GATE	2SK209-Y-TE85R
FVC1 10 PF POWER BALANCE	TZ03Z100FR169	Q11	UNLOCK CONTROL	FMG9A-T148
FVC2 20 PF CLOCK ADJUST	CTZ2E-20C-W2P	Q12	TX CONTROL	1MX1-T110
FVR1 20K INTERNAL SQUELCH	EVM-7JSX30B24	Q13	DECODE HORN SWITCH	RN6001-TE12R,C
FVR2 20K MODULATION	EVM-7JSX30B24	Q14	DECODE HORN CONTROL	DTC314TK-T146
FVR5 TONE MODULATION	EVM-7JSX30B15	Q15	PA DC SWITCH	2S1771
FVR7 10K LOW PWR ADJUST	CHIP VR G3AT 10K	Q16	DC POWER CONTROL	2SA1434-TB
FVR8 2K HIGH PWR ADJUST	EVM-7JSX30B23	Q17	PRE DRIVER AMP	2SC3356-T1B
FVR9 VSWR PROTECT ADJUST	EVM-7JSX30B23	Q18	DRIVER AMP	2SC2954-T1
IC1 LOW IF / SQUELCH / DETECTOR	TK10487M-TR	Q19	DRIVER / POWER CONTROL	2SB906-Y-TE16L
IC2 BUSY LOGIC	BU4S81-TR	Q20	POWER CONTROL	IMX1-T110
IC3 PLL	MBM1505PF-G-BND-TF	Q21	POWER CONTROL	DTB143EK-T146
IC4 DCT / SQUELCH	TS272CD	Q22	POWER CONTROL	FMG9A-T148
IC5 UNLOCK SWITCH	BU4S66-TR	Q23	POWER SWITCH	DTC124EUA-T107
IC8 AUDIO PROCESSOR	AK2342B	Q24	AUDIO B+ FILTER	2SC4684-TE16R
IC9 VOLUME CONTROL CHIP	M5222FP-600C	Q25	SWITCH	UMC2-TR
IC10 5 V REG	AN78L05M	Q26	N / W MOD CONTROL	2SA1434-TB
IC11 AUDIO PA	LA4425A	Q27	N / W BPF FILTER SWITCH	DTC314TK-T146
IC12 5V REG	TA78M05F-TE16L	Q28	N / W BPF FILTER SWITCH	2SK209-Y-TE85R
IC13 POWER CONTROL	PQ12RH11	Q29	N / W DISC CONTROL	2SK209-Y-TE85R
IC14 STOP CONTROL	NJM2405M-T1	Q30	BEEP AMP	RN1403-TE85R
IC15 PA POWER CONTROL	TA75S01F-TE85R			
L1, L6 RF TUNE	#3064	R1,R2 100K		MCR10EZHJ104
L2, L5 RF TUNE	#3065	R3 10K		MCR10EZHJ103
L3 1 UH	ELJ-NA1R0MF	R4 1.8K		MCR10EZHJ182
L7 .1 UH	LQN1AR10K04	*R5 270		MCR10EZHJ271
L8 .47 UH	ELJ-NCR47KF	R6 15K		MCR10EZHJ153
L9 1.5 UH	ELJ-NA1R5MF	R7, R8 470		MCR10EZHJ471
L11 .47 UH	ELJ-NAR47MF	R9, R11 100K		MCR10EZHJ104
L12 .68 UH	NL322522TR68J	R10 10		MCR10EZHJ100
L13, L14, L25	BLM21B421SPT	R12 56		MCR10EZHJ560
L15	#1092(R12-H510Y)	R13 6.8K		MCR10EZHJ682
L16	4A-S418	R14 270		MCR10EZHJ271
L17, L18, L26	FBA04VB450KD-00	R15 22K		MCR10EZHJ223
L19 LPF	4A-S447	R16 100		MCR10EZHJ101
L20 LPF	4A-S446	R17 15K		MCR10EZHJ153
L21 LPF	4A-S448	R18 82K		MCR10EZHJ823
L22 LPF	4A-S449	R19 18K		MCR10EZHJ183
L23 LPF	4A-S428	R20 1K		MCR10EZHJ102
L24	4A-S419	R21 1.2K		MCR10EZHJ122
		R22 82K		MCR10EZHJ823
LF1 POWER FILTER	BNX 002-01	R23,R24, 10K		MCR10EZHJ103
OSC1 12.0 MHZ VCXO	VT25P-8	R25 2.7K		MCR10EZHJ272
*PM1 PA MODULE 15A BAND	M67741L-01	R26 1K		MCR10EZHJ102
*PM1 PA MODULE 15B BAND	M67741H-01	R27 390K		MCR10EZHJ394
*PM1 PA MODULE 15B BAND 40 W	M67781H-01	R28 820		MCR10EZHJ821
Q1 RF AMP	3SK177-T1-U72	R29 10K		MCR10EZHJ103
Q2 PTT/RX MUTE	DTA144EUA-T106	R30 1K		MCR10EZHJ102
Q3 HI IF AMP	2SK508-T1B-K53	R31 2.7K		MCR10EZHJ272
Q4 HI IF AMP	2SC4250	R32 3.9K		MCR10EZHJ392
		R33 10K		MCR10EZHJ103

R34	47K	MCR10EZHJ473	R87	10K	MCR10EZHJ103
R35	1K	MCR10EZHJ102	R88	18K	MCR10EZHJ183
R36	10K	MCR10EZHJ103	R89	270K	MCR10EZHJ274
R37	47	MCR10EZHJ470			
R38	39K	MCR10EZHJ393	R90	39K	MCR10EZHJ393
R39	100	MCR10EZHJ101	R91	18K	MCR10EZHJ183
R40	680	MCR10EZHJ681	R92,R93	22K	MCR10EZHJ223
R41	2.7K	MCR10EZHJ272	R94	3.3K	MCR10EZHJ332
R42	1M	MCR10EZHJ105	R95	470K	MCR10EZHJ474
R43	18K	MCR10EZHJ183	R96	4.7K	MCR10EZHJ472
R44	27K	MCR10EZHJ273	R97	270K	MCR10EZHJ274
R45	8.2K	MCR10EZHJ822	R98	47K	MCR10EZHJ473
R46	18K	MCR10EZHJ183	R99	10K	MCR10EZHJ103
R47	39K	MCR10EZHJ393			
R48	4.7K	MCR10EZHJ472	R100	10K	MCR10EZHJ103
R49	1K	MCR10EZHJ102	R101	1.5K	MCR10EZHJ152
			R102	56K	MCR10EZHJ563
R50	470	MCR10EZHJ471	R104	4.7K	MCR10EZHJ472
R51	27K	MCR10EZHJ273	R105	10K	MCR10EZHJ103
R52	4.7K	MCR10EZHJ472	R106, 107	1.5K	MCR10EZHJ152
R53	10K	MCR10EZHJ103	R108	4.7	MCR50EZHJ4R7
R54	100K	MCR10EZHJ104	R109	470	MCR10EZHJ471
R55	4.7K	MCR10EZHJ472			
R56	10K	MCR10EZHJ103	R110	4.7K	MCR10EZHJ472
R57	220	MCR10EZHJ221	R111	220	MCR10EZHJ221
R58	100K	MCR10EZHJ104	R112	180K	MCR10EZHJ184
R59	4.7K	MCR10EZHJ472	R113	12K	MCR10EZHJ123
			R114,R115	27K	MCR10EZHJ273
R60	120K	MCR10EZHJ124	R116	1M	MCR10EZHJ105
R61	150K	MCR10EZHJ154	R117	3.3K	MCR10EZHJ332
R62	51K	MCR10EZHJ513	R118	4.7	MCR18EZHJ4R7
R63	100K	MCR10EZHJ104	R119	10	MCR10EZHJ100
R64	150K	MCR10EZHJ154			
R65	47K	MCR10EZHJ473	R120	4.7	MCR10EZHJ4R7
R66	330	MCR03EZHJ331	R121,R122	330	MCR10EZHJ331
R67	68K	MCR10EZHJ683	R123	2.7K	MCR10EZHJ272
R68	47K	MCR10EZHJ473	R124,R125	4.7	MCR10EZHJ4R7
R69	390K	MCR10EZHJ394	R126	470	MCR10EZHJ471
			R127	22	MCR10EZHJ220
R70	68K	MCR10EZHJ683	R128	100	MCR10EZHJ101
R71	47K	MCR10EZHJ473	R129	0.0 JUMPER	MCR10EZHJ000
R72	100K	MCR10EZHJ104			
R73	100K	MCR10EZHJ104	R130	2.2K	MCR10EZHJ222
R74	56K	MCR10EZHJ563	R131	39K	MCR10EZHJ393
R75	330K	MCR10EZHJ334	R132	471	MCR18EZHJ471
R76,R78,R79	100K	MCR10EZHJ104	R133	10	MCR18EZHJ100
R77	470K	MCR10EZHJ474	R134	4.7	MCR10EZHJ4R7
			R135	330	MCR10EZHJ331
R80	22K	MCR10EZHJ223	R136	1.5K	MCR10EZHJ152
R81	120K	MCR10EZHJ124	R137	6.8K	MCR10EZHJ682
R82	10K	MCR10EZHJ103	R138	75	MCR10EZHJ750
R83	12K	MCR10EZHJ123	R139	100	MCR10EZHJ101
R84	220K	MCR10EZHJ224			
R85	1M	MCR10EZHJ105	R140	270	MCR100EZHJ271
R86	330K	MCR10EZHJ334	R141	150	MCR10EZHJ151
			R142	470	MCR10EZHJ471

R143 1K	MCR10EZHZJ102	C310 22 PF	GRM40CH220J50PT
R144 3.9K	MCR10EZHZJ392	C311 7 PF	GRM40CH070D50PT
R145 100K	MCR10EZHZJ104	C313 2.5 PF	GRM40CK2R5C50PT
R146 2.2K	MCR10EZHZJ222	C314 100 PF	GRM40CH101J50PT
R148 1K	MCR10EZHZJ102	C315 1000 PF	GRM40B102K50PT
R149 4.7K	MCR10EZHZJ472	*C316 6 PF	GRM40CH060D50PT
R150 47	MCR10EZHZJ470	C318 .75 PF	GRM40CK0R75C50PT
R151 1K	MCR10EZHZJ102	C319 10 PF	GRM40CK010C50PT
R152 470	MCR10EZHZJ471	C320 470 PF	GRM40B471K50PT
R153 1K	MCR10EZHZJ102	C321 1 UF	ECST1CY105R
R154 47K	MCR10EZHZJ473	C322 1000 PF	GRM40B102K50PT
R155 20K	MCR10EZHZJ203	C323 3 PF	GRM40CJ030J50PT
R156,R157 10K	MCR10EZHZJ103	C324 15 PF	GRM40CH150J50PT
R158 470K	MCR10EZHZJ474	C325 33 PF	GRM40CH330J50PT
R159 270K	MCR10EZHZJ274	C326 1000 PF	GRM40B102K50PT
		C327 470 PF	GRM40B471K50PT
R160,R161 10K	MCR10EZHZJ103	C328 1000 PF	GRM40B102K50PT
R162 4.7K	MCR10EZHZJ472	C329 15 PF	GRM40CH150J50PT
R163 10K	MCR10EZHZJ103	C330 3 PF	GRM40CH030J50PT
R165 100	MCR10EZHZJ101	C331 1000 PF	GRM40B102K50PT
R166 270	MCR10EZHZJ271	C332 1.5 PF	GRM40B471K50PT
R168 10K	MCR10EZHZJ103	C333 1000 PF	GRM40B102K50PT
R169 2.7K	MCR10EZHZJ272	C334 15 PF	GRM40CH150J50PT
		C335 3 PF	GRM40CJ030J50PT
R170 0 JUMPER	MCR18EZHZJ000	C336 47 UF	UWT1C470MCR1GB
R171 1K	MCR10EZHZJ102	C337 10 UF	ECST1AB106R
R172 22	MCR10EZHZJ220	C338 47 UF	UWT1C470MCR1GB
R173 39K	MCR10EZHZJ393	C341 .047 UF	GRM42-6B473K25PT
R174 47K	MCR10EZHZJ473	*C342 not used 15B	
R175 100K	MCR10EZHZJ104	C343 10 UF	ECST1CY105R
R177,R178 10K	MCR10EZHZJ103	*C346 5 PF	GRM40CH050C50PT
T1 MIXER	#3060	CN4P 6 POS INPUT	HKP4M5WS
T2 MIXER	#3060	CN5P 4 POS OUTPUT	HKP6M5WS
T3 HI IF	M7-T1(31302)		
TP1 TEST POINT, RF/IF	D-149-3P	D301,D311 VARACTOR, RX CONTROL	1SV229-THP3
TP2 PLL TEST POINT	RCT	D302 VARACTOR, TX CONTROL	1SV232-TPH3
TP3 DCS TEST POINT	RCT	D303 VARACTOR, MOD CONTROL	1SV239-TPH3
		D304 MOD BALANCE	HVU358
X1 LOW IF CONV. 48.045 MHZ	48.045MHZ	D305 ZENER REG.	MA8056-HM(TX)
X2 AUDIO PROC. CLOCK	3.6864MHZ(SMD)	D306 T/R SWITCH	DAN235K-T146
XF1 HI IF FILTER 48 MHZ	48S15A	D307 T/R SWITCH	DAN202K-T146
XF2 HI IF FILTER 48 MHZ	48S15A	D308 PTT	DAN217K-T146
		*D312 VARACTOR, TX CONTROL	1SV229
		FVR301 MOD BALANCE 100K	EVM-7JSX30B15
		IC301 AMP	UPC1688G-T1
		L301 RX OSC	#3074
		L302 .82 UH	C2R-R82K(R12-P351Y)
		L303, L304, 1 UH	ELJ-NA1R0MF
		L305 TX OSC	#3073
		L306 .82 UH	C2R-R82K(R12-P351Y)
		L308 3.3 UH	ELJ-NA3R3MF
		L309 TX OUT	#1092(R12-H510Y)
		L310 RX OUT	#1092(R12-H510Y)

VCO PARTS 15B BAND

146-174 MHZ

*SEE SCHEMATIC FOR 15A BAND

COMPLETE UNIT (SPECIFY BAND)

*C301 18 PF	208VCV45
*C302 10 PF	GRM40RH180J50PT
C303, C304 4 PF	GRM40CH10D50PT
C305 5 PF	GRM40CH040D50PT
C306 1.5 PF	GRM40CH050C50PT
C307 100 PF	GRM40CK1R5C50PT
C308 1000PF	GRM40CH101J50PT
C309 1000PF	GRM40B102K50PT
	GRM40B102K50PT

Q301 RX OSC	2SK508-T1B-K53
Q302 TX OSC	2SK508-T1B-K53
Q303 REGULATOR/FILTER	2SC3624-T1B-L17
Q304 SWITCH	RN2402-TE85R
Q305 SWITCH	RN2402-TE85R
Q306 RX AMP	2SC3583-T1B-R34
Q307 TX AMP	2SC3583-T1B-R34
Q308 FILTER	2SC3624-T1B-L17

R301 1K	MCR10EZJ102
R302 47	MCR10EZJ470
R303 150	MCR10EZJ151
R304 1.5K	MCR10EZJ152
R305 47	MCR10EZJ470
R306 33	MCR10EZJ330
R307 100K	MCR10EZJ104
R308 82K	MCR10EZJ823
R310 1K	MCR10EZJ102
R311 220	MCR10EZJ221
R312 100	MCR10EZJ101
R313 1K	MCR10EZJ102
R314 2.2K	MCR10EZJ222
R315 1K	MCR10EZJ102
R316 100	MCR10EZJ100
R317 56	MCR10EZJ560
R318 4.7	MCR10EZJ4R7
R319 1.5K	MCR10EZJ152
R320 47	MCR10EZJ470
R321 4.7	MCR10EZJ4R7
R322 270	MCR10EZJ271
R323 1K	MCR10EZJ102
R324 2.2K	MCR10EZJ222
R325 0 JUMPER	MCR10EZJ000
R326 56	MCR10EZJ560
R327 4.7	MCR10EZJ4R7
R328 560	MCR10EZJ561
R329 47	MCR10EZJ470
R330,R331 10K	MCR10EZJ103
R332 4.7K	MCR10EZJ472
R333 270	MCR10EZJ271
R334 4.7	MCR10EZJ4R7
*R335 820	MCR10EZJ821

MAIN & VCO UNITS

KG208-20C

240-276 MHZ BAND

*SEE SCHEMATIC FOR A & B BANDS

COMPLETE UNIT (SPECIFY BAND)

208MP87X

*C1, 24 PF
 *C2, 1.5 PF
 *C3 22 PF
 *C4 .5 PF
 *C5 5 PF
 C6 .1 UF
 *C7,C11 10 UF
 C8,C46,C47,C60, C61, 470 PF
 C9,C12,C13,C22,C24,C28 1000 PF
 *C10 18 PF
 C14 .5 PF
 C15,C23 33 PF
 *C16 2 PF
 *C17 24PF
 C18 4PF
 C20,C42,C72 100 PF
 C21,C25,C36 22 PF
 C26 15 PF
 C27,C55 .015 UF
 C29 27PF
 C30 .68 UF
 C31 .027 UF
 C32 390 PF
 C33 470 UF
 C34 3300 PF
 C35,C56,C67,C81,C82,C84,C85,C89,
 C91, 1 UF
 C36 22 PF
 C37 2200 PF
 C38,C69,C78,C79,C86 47 PF
 C39,C40, C41,C43,C50,C64,C75, C90
 C94,C97 .047 UF
 C44 1 UF
 C45,C59, C93 .001 UF
 C48,C53,C55,C76 .015 UF
 C49,C51, 47 PF
 C54,C68 .01 UF
 C57,C62,C95 .1 UF
 C58 .22 UF
 C63 .5 PF
 C65,C71,C80,C96 1 UF
 C66,C87 2.2UF
 C70 220 PF
 C74 6800 PF
 C77 .082 PF
 C83 .47 UF
 C87 2.2 UF
 C88 3300 PF
 C95 .1 UF

GRM40CH240J50PT
 GRM40CK1R5J50PT
 GRM40CH330J50PT
 GRM40CK0R5J50PT
 GRM40CJ050J50PT
 GRM42-6B104K50PT
 GRM40CH100D50PT
 GRM40B471K50PT
 KMG16VB-1000M
 GRM40CH180J50PT
 GRM40CK0R5C50PT
 GRM40CH330J50PT
 GRM40CK020C50PT
 GRM40CH240J50PT
 GRM40CK04C50PT
 GRM40CH101J50PT
 GRM40CH220J50PT
 GRM39CH150J50PT
 GRM40B153K50PT
 GRM40CH270J50PT
 ECST1CY684R
 GRM40B273K50PT
 GRM40CH391J50PT
 GRM40B471K50PT
 GRM40B332K50PT
 ECST1CY105R
 GRM40CH220J50PT
 GRM40B222K50PT
 GRM40CH470J50PT
 GRM40B473K25PT
 ECST1CP105R
 GRM40B102K50PT
 GRM40B153K50PT
 UWT1C470MCR1GB
 GRM40B103K50PT
 GRM42-6B104K50PT
 ECST1VY224R
 GRM40CK0R5B50PT
 UWP1H010MCR1GB
 ECST1CY225R
 GRM40CH221J50PT
 GRM40B682K50PT
 GRM40B823K25PT
 ECST1DP474R
 ECST1CY225R
 GRM40B332K50PT
 GRM42-6B104K50PT

C98,C99 4.7 PF

UWT1E4R7MCR1GB

C100 .047 UF
 C101,C103,C107,C108 1 UF
 C102 .47 UF
 C104,C114,C115,C117,C119,C124,
 C126,C132,C141,C142,C143,C149,
 C150,C151,C152,C157,C160 .001 UF

GRM40B473K25PT
 ECST1CP105R
 ECST1DP474R
 GRM40B102K50PT

C105 1000 UF
 C106,C111, C129 470 UF
 C108 1 UF
 C112 22 PF
 *C116 15 PF
 *C118 10 PF
 *C120 33 PF
 C122,C161 1 UF
 C123 33 PF
 C125,C163,C165 4.7 PF
 C127 1 PF
 C128 3 PF
 *C130 10 PF
 *C131 15 PF
 C133 47 PF
 C134 15 PF
 C135,C136 22 PF
 C137 10 PF
 C138 1 PF
 *C139
 *C140 2 PF
 C144 4.7 PF
 C145 2.2 UF
 C153,C154 100 UF
 C158, 470 PF
 C159 .047 UF
 C162 .01 UF
 *C166
 *C172 7 PF

KMG16VB-1000M
 KMG35VB-470M
 ECST1DP105R
 GRM40CH220J50PT
 GRM40CH150J50PT
 GRM40CH100J50PT
 GRM40CH330J50PT
 ECST1CY105R
 UWT1E330MCR1GB
 UWT1E4R7MCR1GB
 GRM40CK010B50PT
 GRM40CJ030J50PT
 GRM40CH100J50PT
 GRM40CH150J50PT
 UC342H4700J
 UC232H0150D
 UC232H0220D
 UC232H0100D
 UP050SL010M/NAC
 UP050SL020M/NAC
 UWT1E4R7MCR1GB
 ECST1CY225R
 KMG16VB-100M
 GRM40B471K50PT
 GRM40B473K25PT
 GRM40B103K50PT
 UC232H0070D

CD1 DISCRIMINATOR
 CF1 LO IF CERAMIC FILTER, 455 KHz
 CF2 LO IF CERAMIC FILTER, 455 KHz

CDBM455C7
 CFUM455G
 CFWM455E

CN1S CONN.
 CN2S CONN. VCO
 CN3S CONN. KEYPAD
 CN4S CONN. CONTROL UNIT
 CN5S CONN. LOGIC UNIT
 CN6S CONN. LOGIC UNIT
 CN7P CONN. ACCY. JACK
 CN8P CONN. ACCY. JACK
 CN10S CONN. ACCY.
 CN10P CONN. ACCY./ SPKR JUMPER
 CN15P CONN. DCS

5124-04BHPB
 5124-06BHPB
 4A-S498
 4A-S497
 LPC-22FD
 LPC-22FD
 53014-0810
 53014-0310
 4A-S412
 4A-S413
 236A-08-90-134

D1	1SV232-TPH3	L24 COIL	4A-S419
*D2	1SV230-TPH3	L26 COIL	FBA04VB450KD-00
D3	1SV230-TPH3	LF1 POWER FILTER	BNX 002-01
D4	1SV230-TPH3	OSC1 12.0 MHZ VCXO	VT25P-8
D5,D6	1SS271-TE85R	PM1 PA MODULE 20A BAND	M67730L-01
D7, D8,D11,D14,D16,D17,D19,D30,D34	1SS355	PM1 PA MODULE 20B BAND	M68729-1
D9,D10	DAN217K-T146	*PM1 PA MODULE	M68706-01
D12,D13	1SS356-TW11	Q1 RF AMP	3SK177-T1-U72
D18	1SS181-TE85R	Q2 PTT/RX MUTE	DTA144EUA-T106
D21	UDZ2.2B-TE17	Q3 HI IF AMP	2SK508-T1B-K53
D22	DF10SC4M(4100)	Q4 HI IF AMP	2SC4250
D23	1SR154-400TE25	Q5 PLL CONTROL	2SK1133
D24	DAN235K-T146	Q6 PLL CONTROL	2SJ-166-T1B
D26,D28	1SS357-TPH3	Q7 PLL CONTROL	UMC2-TR
D27,D32	UM9401F	Q8 MIC MUTE	IMX1-T110
D29	UM9415	Q9 TONE N / W MOD CONTROL	DTC314TK-T146
D33	MA8056-HM(TX)	Q10 SQUELCH GATE	2SK209-Y-TE85R
FVC1 10 PF POWER BALANCE	TZ03Z100FR169	Q11 UNLOCK CONTROL	FMG9A-T148
FVC2 20 PF CLOCK ADJUST	CTZ2E-20C-W2P	Q12 TX CONTROL	1MX1-T110
FVR1 20K INTERNAL SQUELCH	EVM-7JSX30B24	Q13 DECODE HORN SWITCH	RN6001-TE12R,C
FVR2 20K MODULATION	EVM-7JSX30B24	Q14 DECODE HORN CONTROL	DTC314TK-T146
FVR5 TONE MODULATION	EVM-7JSX30B15	Q15 PA DC SWITCH	2S1771
FVR7 10K LOW PWR ADJUST	CHIP VR G3AT 10K	Q16 DC POWER CONTROL	2SA1434-TB
FVR8 2K HIGH PWR ADJUST	EVM-7JSX30B23	Q17 PRE DRIVER AMP	2SC3356-T1B
FVR9 VSWR PROTECT ADJUST	EVM-7JSX30B23	Q18 DRIVER AMP	2SC3357-T1
IC1 LOW IF / SQUELCH / DETECTOR	TK10487M-TR	Q19 DRIVER / POWER CONTROL	2SB906-Y-TE16L
IC2 BUSY LOGIC	BU4S81-TR	Q20 POWER CONTROL	IMX1-T110
IC3 PLL	MBM1505PF-G-BND-TF	Q21 POWER CONTROL	DTB143EK-T146
IC4 DCT / SQUELCH	TS272CD	Q22 POWER CONTROL	FMG9A-T148
IC5 UNLOCK SWITCH	BU4S66-TR	Q23 POWER SWITCH	DTC124EUA-T107
IC8 AUDIO PROCESSOR	AK2342B	Q24 AUDIO B+ FILTER	2SC4684-TE16R
IC9 VOLUME CONTROL CHIP	M5222FP-600C	Q25 SWITCH	UMC2-TR
IC10 5 V REG	AN78L05M	Q26 N / W MOD CONTROL	2SA1434-TB
IC11 AUDIO PA	LA4425A	Q27 N / W BPF FILTER SWITCH	DTC314TK-T146
IC12 5V REG	TA78M05F-TE16L	Q28 N / W BPF FILTER SWITCH	2SK209-Y-TE85R
IC13 POWER CONTROL	PQ12RH11	Q29 N / W DISC CONTROL	2SK209-Y-TE85R
IC14 STOP CONTROL	NJM2405M-T1	Q30 BEEP AMP	RN1403-TE85R
IC15 PA POWER CONTROL	TA75S01F-TE85R		
*L1, *L6 RF TUNE	#3081	R1,R2 100K	MCR10EZHJ104
*L2, *L5 RF TUNE	#3089	R3 10K	MCR10EZHJ103
L3 CHOKE	C2R-R82K	*R4 4.7K	MCR10EZHJ472
L7 .1 UH	LQN1AR10K04	*R5 150	MCR10EZHJ151
L8 .47 UH	ELJ-NCR47KF	R6 15K	MCR10EZHJ1563
L9 1.5 UH	ELJ-NA1R5MF	R7 470	MCR10EZHJ470
L11 .47 UH	ELJ-NAR47MF	*R8 2.2K	MCR10EZHJ222
L12 .68 UH	NL322522TR68J	R9 100K	MCR10EZHJ104
L13, L14,L25	BLM21B421SPT	R12 56	MCR10EZHJ560
*L15	#1092(R12-H510Y)	R13 6.8K	MCR10EZHJ682
L16	4A-S418	R14 270	MCR10EZHJ271
L17,L18,L26	FBA04VB450KD-00	R15 22K	MCR10EZHJ223
L19 LPF	4A-S421	R16 100	MCR10EZHJ101
L20 LPF	4A-S447	R17 15K	MCR10EZHJ153
L21 LPF	4A-S493	R18 82K	MCR10EZHJ823
L22 LPF	4A-S492	R19 18K	MCR10EZHJ183
L23 LPF	4A-S493	R20 1K	MCR10EZHJ102
		R21 1.2K	MCR10EZHJ122

R22 82K	MCR10EZHZJ823	R76,R78,R79 100K	MCR10EZHZJ104
R23,R24, 10K	MCR10EZHZJ103	R77 470K	MCR10EZHZJ474
R25 2.7K	MCR10EZHZJ272		
R26 1K	MCR10EZHZJ102	R80 22K	MCR10EZHZJ223
R27 390K	MCR10EZHZJ394	R81 120K	MCR10EZHZJ124
R28 820	MCR10EZHZJ821	R82 10K	MCR10EZHZJ103
R29 10K	MCR10EZHZJ103	R83 12K	MCR10EZHZJ123
R30 1K	MCR10EZHZJ102	R84 220K	MCR10EZHZJ224
R31 2.7K	MCR10EZHZJ272	R85 1M	MCR10EZHZJ105
R32 3.9K	MCR10EZHZJ392	R86 330K	MCR10EZHZJ334
R33 10K	MCR10EZHZJ103	R87 10K	MCR10EZHZJ103
R34 47K	MCR10EZHZJ473	R88 18K	MCR10EZHZJ183
R35 1K	MCR10EZHZJ102	R89 270K	MCR10EZHZJ274
R36 10K	MCR10EZHZJ103		
R37 47	MCR10EZHZJ470	R90 39K	MCR10EZHZJ393
R38 39K	MCR10EZHZJ393	R91 18K	MCR10EZHZJ183
R39 100	MCR10EZHZJ101	R92,R93 22K	MCR10EZHZJ223
		R94 3.3K	MCR10EZHZJ332
R40 680	MCR10EZHZJ681	R95 470K	MCR10EZHZJ474
R41 2.7K	MCR10EZHZJ272	R96 4.7K	MCR10EZHZJ472
R42 1M	MCR10EZHZJ105	R97 270K	MCR10EZHZJ274
R43,R44,R46 18K	MCR10EZHZJ183	R98 47K	MCR10EZHZJ473
R45 10K	MCR10EZHZJ103	R99 10K	MCR10EZHZJ103
R47 39K	MCR10EZHZJ393		
R48 4.7K	MCR10EZHZJ472	R100 10K	MCR10EZHZJ103
R49 1K	MCR10EZHZJ102	R101 1.5K	MCR10EZHZJ152
		R102 56K	MCR10EZHZJ563
R50 470	MCR10EZHZJ471	R104 4.7K	MCR10EZHZJ472
R51 27K	MCR10EZHZJ273	R105 10K	MCR10EZHZJ103
R52 4.7K	MCR10EZHZJ472	R106, 107 1.5K	MCR10EZHZJ152
R53 10K	MCR10EZHZJ103	R108 4.7	MCR50EZHZJ4R7
R54 100	MCR10EZHZJ101	R109 470	MCR10EZHZJ471
R55 4.7K	MCR10EZHZJ472		
R56 10K	MCR10EZHZJ103	R110 4.7K	MCR10EZHZJ472
R57 220	MCR10EZHZJ221	R111 220	MCR10EZHZJ221
R58 100K	MCR10EZHZJ104	R112 180K	MCR10EZHZJ184
R59 4.7K	MCR10EZHZJ472	R113 12K	MCR10EZHZJ123
		R114 27K	MCR10EZHZJ273
R60 120K	MCR10EZHZJ124	R115 18K	MCR10EZHZJ183
R61 150K	MCR10EZHZJ154	R116 100K	MCR10EZHZJ105
R62 51K	MCR10EZHZJ513	R117 3.3K	MCR10EZHZJ332
R63 100K	MCR10EZHZJ104	R118 4.7	MCR18EZHZJ4R7
R64 150K	MCR10EZHZJ154	R119 10	MCR10EZHZJ100
R65 47K	MCR10EZHZJ473		
R66 330	MCR03EZHZJ331	R120 4.7	MCR10EZHZJ4R7
R67 68K	MCR10EZHZJ683	R121,R122 330	MCR10EZHZJ331
R68 47K	MCR10EZHZJ473	R123 2.7K	MCR10EZHZJ272
R69 390K	MCR10EZHZJ394	R124 10	MCR10EZHZJ100
		R125 4.7	MCR10EZHZJ4R7
R70 68K	MCR10EZHZJ683	R126 470	MCR10EZHZJ471
R71 47K	MCR10EZHZJ473	R127 22	MCR10EZHZJ220
R72 100K	MCR10EZHZJ104	R128 150	MCR10EZHZJ151
R73 100K	MCR10EZHZJ104	R129 4.7	MCR10EZHZJ4R7
R74 56K	MCR10EZHZJ563		
R75 330K	MCR10EZHZJ334	R130 2.2K	MCR10EZHZJ222
		R131 39K	MCR10EZHZJ393

R132 471	MCR18EZHJ471
R133 10	MCR18EZHJ100
*R134 0.0 JUMPER	MCR10EZHJ000
R135 330	MCR10EZHJ331
R136 1.5K	MCR10EZHJ152
R137 6.8K	MCR10EZHJ682
R138, R139 100	MCR10EZHJ101
R140 270	MCR100EZHJ271
R141 150	MCR10EZHJ151
R142 470	MCR10EZHJ471
R143 1K	MCR10EZHJ102
R144 3.9K	MCR10EZHJ392
R145 100K	MCR10EZHJ104
R146 2.2K	MCR10EZHJ222
R148 1K	MCR10EZHJ102
R149 4.7K	MCR10EZHJ472
R150 47	MCR10EZHJ470
R151 1K	MCR10EZHJ102
R152 470	MCR10EZHJ471
R153 1K	MCR10EZHJ102
R154 47K	MCR10EZHJ473
R155 20K	MCR10EZHJ203
R156, R157 10K	MCR10EZHJ103
R158 470K	MCR10EZHJ474
R159 270K	MCR10EZHJ274
R160, R161 10K	MCR10EZHJ103
R162 4.7K	MCR10EZHJ472
R163 10K	MCR10EZHJ103
R165 100	MCR10EZHJ101
R166 270	MCR10EZHJ271
R168 10K	MCR10EZHJ103
R169 2.7K	MCR10EZHJ272
R170 0 JUMPER	MCR18EZHJ000
R171 1K	MCR10EZHJ102
R172 22	MCR10EZHJ220
R173 39K	MCR10EZHJ393
R174 47K	MCR10EZHJ473
R175 100K	MCR10EZHJ104
R177, R178 10K	MCR10EZHJ103
T1 MIXER	#3060
T2 MIXER	#3060
T3 HI IF	M7-T1(31302)
TP1 TEST POINT, RF/IF	D-149-3P
TP2 PLL TEST POINT	RCT
TP3 DCS TEST POINT	RCT
X1 LOW IF CONV. 48.045 MHZ	48.045MHZ
X2 AUDIO PROC. CLOCK	3.6864MHZ(SMD)
XF1 HI IF FILTER 48 MHZ	48S15A
XF2 HI IF FILTER 48 MHZ	48S15A

VCO PARTS 20 C BAND

240-276 MHZ

*SEE SCHEMATIC FOR OTHER BANDS

COMPLETE UNIT (SPECIFY BAND)	208VCV45
C301 18 PF	GRM40RH180J50PT
*C302 5 PF	GRM40CH050C50PT
*C303	
*C304 4 PF	GRM40CH040C50PT
C305 2 PF	GRM40CK020C50PT
C306 1.5 PF	GRM40CK1R5B50PT
C307 100 PF	GRM40CH101J50PT
C308 1000PF	GRM40B102K50PT
C309 1000PF	GRM40B102K50PT
*C310 18 PF	GRM40CH180J50PT
*C311 5 PF	GRM40CJ050J50PT
C313 2 PF	GRM40CK020C50PT
C314 100 PF	GRM40CH101J50PT
C315 1000 PF	GRM40B102K50PT
*C316 8 PF	GRM40CH0080C50PT
C318 .5 PF	GRM40CK0R5B50PT
C319 .75 PF	GRM40CK0R75B50PT
C320 470 PF	GRM40B471K50PT
C321 1 UF	ECST1CY105R
C322 1000 PF	GRM40B102K50PT
C323 3 PF	GRM40CJ030J50PT
C324 15 PF	GRM40CH150J50PT
C325 15 PF	GRM40CH150D50PT
C326 1000 PF	GRM40B102K50PT
C327 470 PF	GRM40B471K50PT
C328 1000 PF	GRM40B102K50PT
C329 47 PF	GRM40CH470J50PT
C330 22 PF	GRM40CH220J50PT
C331 1000 PF	GRM40B102K50PT
C332 1.5 PF	GRM40B471K50PT
C333 1000 PF	GRM40B102K50PT
C334 15 PF	GRM40CH150J50PT
C335 3 PF	GRM40CJ030J50PT
C336 47 UF	UWT1C470MCR1GB
C337 10 UF	ECST1AB106R
C338 47 UF	UWT1C470MCR1GB
C340 10 UF	ECST1CY105R
C341 .047 UF	GRM42-6B473K25PT
*C342 2.5 PF	GRM40CK2R5J50PT
C343 10 UF	ECST1CY105R
*C346 .5 PF	GRM40CK0R5B50PT
CN4P 6 POS INPUT	HKP4M5WS
CN5P 4 POS OUTPUT	HKP6M5WS
*D301 VARACTOR, RX CONTROL	
*D302 VARACTOR, TX CONTROL	HVU358TRF
D303 VARACTOR, MOD CONTROL	1SV229-TPH3
D304 MOD BALANCE	1SV239-TPH3

D305 ZENER REG.	MA8056-HM(TX)	R328 560	MCR10EZHJ561
D306 T/R SWITCH	DAN235K-T146	R329 47	MCR10EZHJ470
D307 T/R SWITCH	DAN202K-T146	R330,R331 10K	MCR10EZHJ103
D308 PTT	DAN217K-T146	R332 4.7K	MCR10EZHJ472
*D310 VARACTOR, TX CONTROL		R333 270	MCR10EZHJ271
D311 VARACTOR, RX CONTROL	HVU358TRF	R334 4.7	MCR10EZHJ4R7
*D312 VARACTOR, TX CONTROL	HVU355TRF	*TH302 10 K THERMISTOR	
FVR301 MOD BALANCE 100K	EVM-7JSX30B15		
IC301 AMP	UPC1688G-T1		
*L301 RX OSC	#3075		
*L302 .82 UH	C2R-R82K)		
L303 1 UH	ELJ-NA1R0MF		
L304 .1 UH	ELJ-NA1R0MF		
L305 TX OSC	#3074		
L306 .82 UH TX OSC	C2R-R82K(R12-P351Y)		
*L307 1 UH	ELJ-NA1R0MF		
L308 1 UH	ELJ-NA1R0MF		
L309 TX OUT	#1092(R12-H510Y)		
L310 RX OUT	#1091(R12-H510Y)		
Q301 RX OSC	2SK508-T1B-K53		
Q302 TX OSC	2SK508-T1B-K53		
Q303 REGULATOR/FILTER	2SC3624-T1B-L17		
Q304 SWITCH	RN2402-TE85R		
Q305 SWITCH	RN2402-TE85R		
Q306 RX AMP	2SC3583-T1B-R34		
Q307 TX AMP	2SC3583-T1B-R34		
Q308 FILTER	2SC3624-T1B-L17		
*R301 680	MCR10EZHJ6810		
R302 47	MCR10EZHJ470		
R303 15	MCR10EZHJ150		
*R304 680	MCR10EZHJ681		
R305 47	MCR10EZHJ470		
R306 33	MCR10EZHJ330		
R307 100K	MCR10EZHJ104		
R308 82K	MCR10EZHJ823		
R310 1K	MCR10EZHJ102		
R311 220	MCR10EZHJ221		
R312 100	MCR10EZHJ101		
R313 1K	MCR10EZHJ102		
R314 2.2K	MCR10EZHJ222		
R315 1K	MCR10EZHJ102		
R316 100	MCR10EZHJ100		
R317 560	MCR10EZHJ560		
R318 4.7	MCR10EZHJ4R7		
R319 1.5K	MCR10EZHJ152		
R320 470	MCR10EZHJ470		
R321 4.7	MCR10EZHJ4R7		
R322,R323 1K	MCR10EZHJ102		
R324 2.2K	MCR10EZHJ222		
R325 0 JUMPER	MCR10EZHJ000		
R326 56	MCR10EZHJ560		
R327 4.7	MCR10EZHJ4R7		

MAIN & VCO UNITS

KG208-40D

440-470 MHZ BAND

*SEE SCHEMATIC FOR OTHER BANDS

COMPLETE UNIT (SPECIFY BAND)

*BPF1 RX BAND PASS FILTER

208MPU78

RF BPF #3062

*C1,C7 15 PF

*C2, C6 1.5 PF

*C3 7 PF

C4 .1 UF

*C5 6 PF

C8 ,C9,C11,C33,C46,C47, C60, C61
470 PF

C10 100 PF

*C12 .75 PF

GRM40CH150J50PT

GRM40CK1R5J50PT

GRM40CH070D50PT

GRM40B104K25PT

GRM40CH060D50PT

GRM40B471K50PT

GRM40CH101J50PT

GRM40CK0R75B50PT

*C17 1 PF

C30 .68 UF

C31 .027 UF

C32 390 PF

C34,C68 .01 UF

C35,C56,C67,C81,C82,C84,C85,C89,
C91, 1 UF

C36 22 PF

C37 2200 PF

C38,C69,C78,C79,C86 47 PF

C39,C40, C41,C43,C50,C64,C75, C90
C94,C97 .047 UF

C42,C72 100 PF

C44 1 UF

C45,C59, C93 .001 UF

C48,C76 .015 UF

C49,C51, 47 PF

C53,C54,C55 .022 UF

C57,C62 .1 UF

C58 .22 UF

C63 .5 PF

C65,C71,C80,C96 1UF

C66 2.2UF

C70 220 PF

C74 6800 PF

C77 8200 PF

C83 .47 UF

C87 2.2 UF

C88 3300 PF

C95 .1 UF

C98,C99 4.7 PF

GRM40CK010B50PT

ECST1CY684R

GRM40B273K50PT

GRM40CH391J50PT

GRM40B103K50PT

ECST1CY105R

GRM40CH220J50PT

GRM40B222K50PT

GRM40CH470J50PT

GRM40B473K25PT

GRM40CH101J50PT

ECST1CP105R

GRM40B102K50PT

GRM40B153K50PT

UWT1C470MCR1GB

GRM40B223K25PT

GRM42-6B104K50PT

ECST1VY224R

GRM40CK0R5B50PT

UWP1H010MCR1GB

ECST1CY225R

GRM40CH221J50PT

GRM40B682K50PT

GRM40B823K25PT

ECST1DP474R

ECST1CY225R

GRM40B332K50PT

GRM42-6B104K50PT

UWT1E4R7MCR1GB

C100 .047 UF

C101,C103,C107,C108 1 UF

C102 .47 UF

C104,C114,C115,C117,C119,C124,

GRM40B473K25PT

ECST1CP105R

ECST1DP474R

GRM40B102K50PT

C126,C132,C141,C142,C143,C149,
C150,C151,C152,C157,C160,C167

.001 UF

C105 1000 UF

C106,C111 470 UF

C112,C116 10 PF

C118,C131 7 PF

C120 33 PF

C122,C161 1 UF

C123 33 PF

C125,C163,C165 4.7 PF

*C127 .5 PF

*C128,C130 3 PF

C133 47 PF

C134 7 PF

C135,C136 10 PF

C137 5 PF

*C138 not used on 40D

C139 1 PF

*C140 not used on 40D

C144 4.7 UF

C145 2.2 UF

C153,C154 100 UF

*C155,C156 not used on 40D

C158, 470 PF

C159 .047 UF

C162 .01 UF

CD1 DISCRIMINATOR

CF1 LO IF CERAMIC FILTER, 455 KHz

CF2 LO IF CERAMIC FILTER, 455 KHz

KMG16VB-1000M

KMG35VB-470M

GRM40CH100D50PT

GRM40CH070D50PT

GRM40CH330J50PT

ECST1CY105R

UWT1E330MCR1GB

UWT1E4R7MCR1GB

GRM40CK0R5B50PT

GRM40CJ030J50PT

UC342H4700J

UC232H0070D

UC232H0100D

UC232H0050D

UP050SL010M/NAC

UWT1E4R7MCR1GB

ECST1CY225R

KMG16VB-100M

GRM40B471K50PT

GRM40B473K25PT

GRM40B103K50PT

CDBM455C7

CFUM455G

CFWM455E

CN1S CONN.

CN2S CONN. VCO

CN3S CONN. KEYPAD

CN4S CONN. CONTROL UNIT

CN5S CONN. LOGIC UNIT

CN6S CONN. LOGIC UNIT

CN7P CONN. ACCY. JACK

CN8P CONN. ACCY. JACK

CN10S CONN. ACCY.

CN10P CONN. ACCY./ SPKR JUMPER

CN15P CONN. DCS

5124-04BHPB

5124-06BHPB

4A-S498

4A-S497

LPC-22FD

LPC-22FD

53014-0810

53014-0310

4A-S412

4A-S413

236A-08-90-134

*D1,D2

D5,D6

D7, D8,D11,D14,D16,D17,D19,D30,D34

D9,D10

D12,D13

D18

D21

D22

D23

D24

1SV239-TPH3

1SS271-TE85R

1SS355

DAN217K-T146

1SS356-TW11

1SS181-TE85R

UDZ2.2B-TE17

DF10SC4M(4100)

1SR154-400TE25

DAN235K-T146

D26,D28	1SS357-TPH3	*PM1 PA MODULE 40 F BAND	M57729-01
D27,D32	UM9401F		
D29	UM9415	PS1 THERMAL PA CONTROL	PTH9C23BB471Q-T
D33	MA8056-HM(TX)		
FVC1 10 PF POWER BALANCE	TZ03Z100FR169	Q1 RF AMP	3SK177-T1-U72
FVC2 20 PF CLOCK ADJUST	CTZ2E-20C-W2P	Q2 PTT/RX MUTE	DTA144EUA-T106
FVR1 20K INTERNAL SQUELCH	EVM-7JSX30B24	Q3 HI IF AMP	2SK508-T1B-K53
FVR2 20K MODULATION	EVM-7JSX30B24	Q4 HI IF AMP	2SC4250
FVR5 TONE MODULATION	EVM-7JSX30B15	Q5 PLL CONTROL	2SK1133
FVR7 10K LOW PWR ADJUST	CHIP VR G3AT 10K	Q6 PLL CONTROL	2SJ-166-T1B
FVR8 2K HIGH PWR ADJUST	EVM-7JSX30B23	Q7 PLL CONTROL	UMC2-TR
FVR9 VSWR PROTECT ADJUST	EVM-7JSX30B23	Q8 MIC MUTE	IMX1-T110
IC1 LOW IF / SQUELCH / DETECTOR	TK10487M-TR	Q9 TONE N / W MOD CONTROL	DTC314TK-T146
IC2 BUSY LOGIC	BU4S81-TR	Q10 SQUELCH GATE	2SK209-Y-TE85R
IC3 PLL	MBM1505PF-G-BND-TF	Q11 UNLOCK CONTROL	FMG9A-T148
IC4 DCT / SQUELCH	TS272CD	Q12 TX CONTROL	1MX1-T110
IC5 UNLOCK SWITCH	BU4S66-TR	Q13 DECODE HORN SWITCH	RN6001-TE12R,C
IC8 AUDIO PROCESSOR	AK2342B	Q14 DECODE HORN CONTROL	DTC314TK-T146
IC9 VOLUME CONTROL CHIP	M5222FP-600C	Q15 PA DC SWITCH	2S1771
IC10 5 V REG	AN78L05M	Q16 DC POWER CONTROL	2SA1434-TB
IC11 AUDIO PA	LA4425A	Q17 PRE DRIVER AMP	2SC3356-T1B
IC12 5V REG	TA78M05F-TE16L	Q18 DRIVER AMP	2SC3357-T1
IC13 POWER CONTROL	PQ12RH11	Q19 DRIVER / POWER CONTROL	2SB906-Y-TE16L
IC14 STOP CONTROL	NJM2405M-T1	Q20 POWER CONTROL	IMX1-T110
IC15 PA POWER CONTROL	TA75S01F-TE85R	Q21 POWER CONTROL	DTB143EK-T146
		Q22 POWER CONTROL	FMG9A-T148
L1 RF TUNE	#3061	Q23 POWER SWITCH	DTC124EUA-T107
L2 RF TUNE	#3061	Q24 AUDIO B+ FILTER	2SC4684-TE16R
*L3	LQN1AR10J04	Q25 SWITCH	UMC2-TR
*L4	LQP21A10NG14	Q26 N / W MOD CONTROL	2SA1434-TB
L5 LPF	4A-S422	Q27 N / W BPF FILTER SWITCH	DTC314TK-T146
L7 .1 UH	LQN1AR10J04	Q28 N / W BPF FILTER SWITCH	2SK209-Y-TE85R
L8 .47 UH	ELJ-NCR47KF	Q29 N / W DISC CONTROL	2SK209-Y-TE85R
L9 1.5 UH	ELJ-NA1R5MF	Q30 BEEP AMP	RN1403-TE85R
L11 .47 UH	ELJ-NAR47MF		
L12 .68 UH	NL322522TR68J		
L13, L14, L25	BLM21B421SPT	R1,R2 100K	MCR10EZHJ104
L15	#1091(R12-H510Y)	R3 10K	MCR10EZHJ103
L16	4A-S418	R4 15K	MCR10EZHJ153
L17,L18,L26	FBA04VB450KD-00	R5 4.7K	MCR10EZHJ472
L19 LPF	4A-S421	R6, R7 47	MCR10EZHJ470
L20 LPF	4A-S420	R12 56	MCR10EZHJ560
L21 LPF	4A-S423	R13 6.8K	MCR10EZHJ682
L22 LPF	4A-S424	R14 270	MCR10EZHJ271
L23 LPF	4A-S423	R15 22K	MCR10EZHJ223
L24	4A-S419	R16 100	MCR10EZHJ101
		R17 15K	MCR10EZHJ153
LF1 POWER FILTER	BNX 002-01	R18 82K	MCR10EZHJ823
OSC1 12.0 MHZ VCXO	VT25P-8	R19 18K	MCR10EZHJ183
		R20 1K	MCR10EZHJ102
*PM1 PA MODULE 40 A BAND	M57729EL-01	R21 1.2K	MCR10EZHJ122
*PM1 PA MODULE 40 B BAND	M68762SL-01	R22 82K	MCR10EZHJ823
*PM1 PA MODULE 40 C BAND	M67729L-01	R23,R24, 10K	MCR10EZHJ103
*PM1 PA MODULE 40 DS BAND	M57729-01	R25 2.7K	MCR10EZHJ272
*PM1 PA MODULE 40 D BAND	M57729H-01	R26 1K	MCR10EZHJ102
*PM1 PA MODULE 40 D BAND 40 W	M57788H-01	R27 390K	MCR10EZHJ394
*PM1 PA MODULE 40E BAND	M57729UH-01	R28 820	MCR10EZHJ821

R29	10K	MCR10EZHZJ103	R82	10K	MCR10EZHZJ103
R30	1K	MCR10EZHZJ102	R83	12K	MCR10EZHZJ123
R31	2.7K	MCR10EZHZJ272	R84	220K	MCR10EZHZJ224
R32	3.9K	MCR10EZHZJ392	R85	1M	MCR10EZHZJ105
R33	10K	MCR10EZHZJ103	R86	330K	MCR10EZHZJ334
R34	47K	MCR10EZHZJ473	R87	10K	MCR10EZHZJ103
R35	1K	MCR10EZHZJ102	R88	18K	MCR10EZHZJ183
R36	8.2K	MCR10EZHZJ822	R89	270K	MCR10EZHZJ274
R37	47	MCR10EZHZJ470			
R38	39K	MCR10EZHZJ393	R90	39K	MCR10EZHZJ393
R39	100	MCR10EZHZJ101	R91	18K	MCR10EZHZJ183
			R92,R93	22K	MCR10EZHZJ223
*R40	1K	MCR10EZHZJ102	R94	3.3K	MCR10EZHZJ332
R41	2.7K	MCR10EZHZJ272	R95	470K	MCR10EZHZJ474
R42	1M	MCR10EZHZJ105	R96	4.7K	MCR10EZHZJ472
R44	18K	MCR10EZHZJ183	R97	270K	MCR10EZHZJ274
R45	8.2K	MCR10EZHZJ822	R98	47K	MCR10EZHZJ473
R46	18K	MCR10EZHZJ183	R99	10K	MCR10EZHZJ103
R47	39K	MCR10EZHZJ393			
R48	4.7K	MCR10EZHZJ472	R100	10K	MCR10EZHZJ103
R49	1K	MCR10EZHZJ102	R101	1.5K	MCR10EZHZJ152
			R102	56K	MCR10EZHZJ563
R50	470	MCR10EZHZJ471	R104	4.7K	MCR10EZHZJ472
R51	27K	MCR10EZHZJ273	R105	10K	MCR10EZHZJ103
R52	4.7K	MCR10EZHZJ472	R106, 107	1.5K	MCR10EZHZJ152
R53	10K	MCR10EZHZJ103	R108	4.7	MCR50EZHZJ4R7
R54	100K	MCR10EZHZJ104	R109	470	MCR10EZHZJ471
R55	4.7K	MCR10EZHZJ472			
R56	10K	MCR10EZHZJ103	R110	4.7K	MCR10EZHZJ472
R57	220	MCR10EZHZJ221	R111	220	MCR10EZHZJ221
R58	100K	MCR10EZHZJ104	R112	180K	MCR10EZHZJ184
R59	4.7K	MCR10EZHZJ472	R113	12K	MCR10EZHZJ123
			R114,R115	27K	MCR10EZHZJ273
R60	120K	MCR10EZHZJ124	R116	1M	MCR10EZHZJ105
R61	150K	MCR10EZHZJ154	R117	3.3K	MCR10EZHZJ332
R62	51K	MCR10EZHZJ513	R118	4.7	MCR18EZHZJ4R7
R63	100K	MCR10EZHZJ104	R119	10	MCR10EZHZJ100
R64	150K	MCR10EZHZJ154			
R65	47K	MCR10EZHZJ473	R120	4.7	MCR10EZHZJ4R7
R66	330	MCR03EZHZJ331	R121,R122	330	MCR10EZHZJ331
R67	68K	MCR10EZHZJ683	R123	2.7K	MCR10EZHZJ272
R68	47K	MCR10EZHZJ473	R124,R125	4.7	MCR10EZHZJ4R7
R69	390K	MCR10EZHZJ394	R126	470	MCR10EZHZJ471
			R127	22	MCR10EZHZJ220
R70	68K	MCR10EZHZJ683	R128	150	MCR10EZHZJ151
R71	47K	MCR10EZHZJ473	R129	2.2	MCR10EZHZJ2R2
R72	100K	MCR10EZHZJ104			
R73	100K	MCR10EZHZJ104	R130	2.2K	MCR10EZHZJ222
R74	56K	MCR10EZHZJ563	R131	39K	MCR10EZHZJ393
R75	330K	MCR10EZHZJ334	R132	471	MCR18EZHZJ471
R76,R78,R79	100K	MCR10EZHZJ104	R133	10	MCR18EZHZJ100
R77	470K	MCR10EZHZJ474	R134	4.7	MCR10EZHZJ4R7
			R135	330	MCR10EZHZJ331
R80	22K	MCR10EZHZJ223	R136	1K	MCR10EZHZJ102
R81	120K	MCR10EZHZJ124	R137	6.8K	MCR10EZHZJ682
			R138	150	MCR10EZHZJ151

R139 100	MCR10EZHZJ101	C305 220 PF	GRM40CH221J50PT
		C306 .75 PF	GRM40CK0R75B50PT
R140 270	MCR100EZHZJ271	C307 100 PF	GRM40CH101J50PT
R141 150	MCR10EZHZJ151	C308 1000PF	GRM40B102K50PT
R142 470	MCR10EZHZJ471	C309 1000PF	GRM40B102K50PT
R143 1K	MCR10EZHZJ102	*C310 8 PF	GRM40CH080D50PT
R144 3.9K	MCR10EZHZJ392	C311 3 PF	GRM40CJ030J50PT
R145 100K	MCR10EZHZJ104	C312 220 PF	GRM40CH221J50PT
R146 8.2K	MCR10EZHZJ822	C313 .5 PF	GRM40CK0R5B50PT
R148 1K	MCR10EZHZJ102	C314 100 PF	GRM40CH101J50PT
R149 4.7K	MCR10EZHZJ472	C315 1000 PF	GRM40B102K50PT
R150 47	MCR10EZHZJ470	*C316 .7 PF	GRM40CK0R75B50PT
R151 1K	MCR10EZHZJ102	C318 .5 PF	GRM40CK0R5B50PT
R152 470	MCR10EZHZJ471	C319 .5 PF	GRM40CK0R5B50PT
R153 1K	MCR10EZHZJ102	C320 470 PF	GRM40B471K50PT
R154 47K	MCR10EZHZJ473	C321 1 UF	ECST1CY105R
R155 20K	MCR10EZHZJ203	C322 1000 PF	GRM40B102K50PT
R156,R157 10K	MCR10EZHZJ103	C323 3 PF	GRM40CJ030J50PT
R158 470K	MCR10EZHZJ474	C324 15 PF	GRM40CH150J50PT
R159 270K	MCR10EZHZJ274	C325 10 PF	GRM40CH100D50PT
		C326 1000 PF	GRM40B102K50PT
R160,R161 10K	MCR10EZHZJ103	C327 470 PF	GRM40B471K50PT
R162 4.7K	MCR10EZHZJ472	C328 1000 PF	GRM40B102K50PT
R163 10K	MCR10EZHZJ103	C329 27 PF	GRM40CH270J50PT
R165 100	MCR10EZHZJ101	C330 7 PF	GRM40CH070D50PT
R166 270	MCR10EZHZJ271	C331 1000 PF	GRM40B102K50PT
R168 10K	MCR10EZHZJ103	C332 1.5 PF	GRM40B471K50PT
R169 2.7K	MCR10EZHZJ272	C333 1000 PF	GRM40B102K50PT
		C334 15 PF	GRM40CH150J50PT
R170 0 JUMPER	MCR18EZHZJ000	C335 3 PF	GRM40CJ030J50PT
R171 1K	MCR10EZHZJ102	C336 47 UF	UWT1C470MCR1GB
R172 22	MCR10EZHZJ220	C337 10 UF	ECST1AB106R
R173 39K	MCR10EZHZJ393	C338 47 UF	UWT1C470MCR1GB
R174 47K	MCR10EZHZJ473	C340 10 UF	ECST1CY105R
R175 100K	MCR10EZHZJ104	C341 .047 UF	GRM42-6B473K25PT
R177,R178 10K	MCR10EZHZJ103	*C342 1.5 PF	GRM40CK1R5J50PT
		C343 10 UF	ECST1CY105R
T1 MIXER	#3060	*C344 56 PF	GRM40CH560J50PT
T2 MIXER	#3060	*C345 68 PF	GRM40CH680J50PT
T3 HI IF	M7-T1(31302)	*C346 .5 PF	GRM40CK0R5B50PT
TP1 TEST POINT, RF/IF	D-149-3P		
TP2 PLL TEST POINT	RCT	CN4P 6 POS INPUT	HKP4M5WS
TP3 DCS TEST POINT	RCT	CN5P 4 POS OUTPUT	HKP6M5WS
X1 LOW IF CONV. 48.045 MHZ	48.045MHZ	*D301 VARACTOR, RX CONTROL	HVU358TRF
X2 AUDIO PROC. CLOCK	3.6864MHZ(SMD)	*D302 VARACTOR, TX CONTROL	1SV230-TPH3
XF1 HI IF FILTER 48 MHZ	48S15A		
XF2 HI IF FILTER 48 MHZ	48S15A	*D303 VARACTOR, MOD CONTROL	1SV229-TPH3
		D304 MOD BALANCE	1SV239-TPH3
VCO PARTS 40 D BAND		D305 ZENER REG.	MA8056-HM(TX)
440-475 MHZ		D306 T/R SWITCH	DAN235K-T146
*SEE SCHEMATIC FOR OTHER BANDS		D307 T/R SWITCH	DAN202K-T146
COMPLETE UNIT (SPECIFY BAND)	208VCU45	D308 PTT	DAN217K-T146
*C301 9 PF	GRM40RH090D50PT		
*C302 1.5 PF	GRM40CK1R5J50PT	FVR301 MOD BALANCE 100K	EVM-7JSX30B15
*C304 4 PF	GRM40CH040C50PT	IC301 AMP	UPC1688G-T1

*L301 RX OSC	#3078
L302 .47 UH	C2R-R47K(R12-P351Y)
L303 .47 UH	ELJ-NAR47MF
L304 .47 UH	ELJ-NAR47MF
*L305 TX OSC	#3079
L306 TX OSC	C2R-R47K(R12-P351Y)
L307 .47 UH	ELJ-NAR47MF
L308 .47 UH	ELJ-NAR47MF
L309 TX OUT	#1091(R12-H510Y)
L310 RX OUT	#1091(R12-H510Y)
Q301 RX OSC	2SK508-T1B-K53
Q302 TX OSC	2SK508-T1B-K53
Q303 REGULATOR/FILTER	2SC3624-T1B-L17
Q304 SWITCH	RN2402-TE85R
Q305 SWITCH	RN2402-TE85R
Q306 RX AMP	2SC3583-T1B-R34
Q307 TX AMP	2SC3583-T1B-R34
Q308 FILTER	2SC3624-T1B-L17
*R301 27	MCR10EZJ270
R302 47	MCR10EZJ470
*R303 75	MCR10EZJ750
*R304 390	MCR10EZJ391
R305 47	MCR10EZJ470
R306 75	MCR10EZJ750
R307 100K	MCR10EZJ104
R308 82K	MCR10EZJ823
R310 1K	MCR10EZJ102
R311 220	MCR10EZJ221
R312 100	MCR10EZJ101
R313 1K	MCR10EZJ102
R314 2.2K	MCR10EZJ222
R315 1K	MCR10EZJ102
R316 100	MCR10EZJ100
*R317 75	MCR10EZJ750
R318 4.7	MCR10EZJ4R7
R319 1.5K	MCR10EZJ152
R320 47	MCR10EZJ470
R321 4.7	MCR10EZJ4R7
R322 270	MCR10EZJ271
R323 1K	MCR10EZJ102
R324 2.2K	MCR10EZJ222
R325 0 JUMPER	MCR10EZJ000
R326 56	MCR10EZJ560
R327 4.7	MCR10EZJ4R7
R328 560	MCR10EZJ561
R329 47	MCR10EZJ470
R330,R331 10K	MCR10EZJ103
R332 4.7K	MCR10EZJ472
R333 270	MCR10EZJ271
R334 4.7	MCR10EZJ4R7
R335 4.7K	MCR10EZJ472

CONTROL UNIT ALL BANDS

PART	PART NUMBER
COMPLETE UNIT	208CNT3Z
C401,C404,C405 1 uF	ECST1CY105R
C402 .1 uF	ECST1VY104R
C403 10 uF ELECT	UWT0J101MCR1GB
C406,C407 4.7 uF ELECT	UWT1E4R7MCR1GB
C409 100 pF	GRM40CH101J50PT
C410 .047 pF	GRM40B473K25PT
CN3P CONN. 14 POS	SB20-14WS
CN4P CONN. 13 POS	SB20-13WS
CN11P CONN. LCD VINYL	0.25PX60LX4.1HX2.3
CN12P CONN. 8 POS	52271-0890
CN401 CONN. 2 POS	SB20-02WS
CN402 CONN. 15 POS	SB20-15WS
D401,D405,D406	1SS355
D402	MA8068-HM(TX)
D403	MA8047-HM(TX)
D404	DAN217K-T146
IC401 LCD CONTROLLER	UPD7225GB-3B7
IC402 5 V REG	AN78L05M
IC403 MIC PRE-AMP	TA75S558F-TE85R
Q401 BACK-LIGHT SWITCH	2SC4684-TE16R
Q402 POWER CONTROL	RN6001-TE12R,C
Q403 PTT LOGIC	DTC114YKA-T146
Q404 SWITCH	FMG9A-T148
Q405 SCAN LOGIC	2SA1434-TB
R401,R402,R410,R4411 820Ω	MCR10EZHJ820
R403 180K	MCR10EZHJ184
R404,R405,R406 47K	MCR10EZHJ473
R407,R412,R417,R418,R425	MCR10EZHJ472
R408 270K	MCR10EZHJ274
R409,R420,R421,R422 10K	MCR10EZHJ103
R413 5.6K	MCR10EZHJ562
R414 0Ω JUMPER	MCR100EZHJ1R0
R415 2.2Ω ½ W	MCR50EZHJ2R2
R416 100Ω	MCR18EZHJ100
R419 470Ω	MCR10EZHJ471
R423,R424 100K	MCR10EZHJ104
SPEAKER	KS-108
S401,S402,S403 SWITCH	SOA-114HS (R66-4277)
CONNECTOR	4A-S499
CONNECTOR	4A-S500
LCD BACK-LIGHT	L947
LCD CLAMP	4A10-2001
LCD	FTD13152H
VOL/SQL/POWER SWITCH 20K	4A10-2473

LOGIC UNIT, ALL BANDS

LOGIC UNIT COMPLETE	208LOG94-1
LOGIC SHIELD	4A10-2246
C201,C203,C211 .1 uF	GRM40B104K25PT
C202, C207,C209,C210, C212 1 uF	ECST1CY105R
C205 .047 uF	GRM40B473K25PT
C206 1.5 uF	ECST1CY155R
C208 .47 uF	EECS5R5H474
C213 10 pF	GRM40CH100D50PT
C214 47 pF	GRM40CH470J50PT
CN5P,CN6P CONNECTOR	LPC 22T1M2
CN9S CONNECTOR	53015-0410
D201,D202,D203	1SS355
D204	DA204U-T106
FV201 VARICAP	EVM-7JSX30B15
IC201 MEMORY, 64K	AT24C16N-10SI-2.7
IC202 DTMF ENC/DEC	MSM7524GS-VK
IC203 CPU	UPD78P018FGC-AB8
IC204 RESET	RN5VL22AA-TL
IC205 REGULATOR, 5V	AN78L05M
IC206 TONE AMP	TA75S01F(TE85R)
Q201,Q202 SWITCHING	2SK880GR(TE85L)
L201,L202 220 uH	NL322522T-221J
RA201,RA203 1K ARRAY	MNR14E0ABJ102
RA202 4.7K ARRAY	MNR14E0ABJ472
R201,R204 47K	MCR10EZHJ473
R202 56K	MCR10EZHJ563
R203 27K	MCR10EZHJ273
R205,R227 270K	MCR10EZHJ274
R207,R216,R221,R222,R228, R229, R230,R241,R242 100K	MCR10EZHJ104
R208,R215 33K	MCR10EZHJ333
R209,R223 5.6K	MCR10EZHJ562
R210,R217,R226 10K	MCR10EZHJ103
R211 82K	MCR10EZHJ823
R212,R225 39K	MCR10EZHJ393
R213 18K	MCR10EZHJ183
R214 22K	MCR10EZHJ223
R219 1M	MCR10EZHJ105
R220 JUMPER	MCR10EZHJR00
R231 180K	MCR10EZHJ184
R232 33	MCR10EZHJ330
R239,R244 1K	MCR10EZHJ102
X201 CRYSTAL, 3.58 MHZ	SMX-3F(3.579545MHZ)
X202 CRYSTAL, 4.19 MHZ	DS-MAT309(4.19MHZ)

LOGIC UNIT, ALL BANDS

LOGIC UNIT COMPLETE	208LOG94-1
LOGIC SHIELD	4A10-2246
C201,C203,C211 .1 uF	GRM40B104K25PT
C202, C207,C209,C210, C212 1 uF	ECST1CY105R
C205 .047 uF	GRM40B473K25PT
C206 1.5 uF	ECST1CY155R
C208 .47 uF	EECS5R5H474
C213 10 pF	GRM40CH100D50PT
C214 47 pF	GRM40CH470J50PT
CN5P,CN6P CONNECTOR	LPC 22T1M2
CN9S CONNECTOR	53015-0410
D201,D202,D203	1SS355
D204	DA204U-T106
FV201 VARICAP	EVM-7JSX30B15
IC201 MEMORY, 64K	AT24C16N-10SI-2.7
IC202 DTMF ENC/DEC	MSM7524GS-VK
IC203 CPU	UPD78P018FGC-AB8
IC204 RESET	RN5VL22AA-TL
IC205 REGULATOR, 5V	AN78L05M
IC206 TONE AMP	TA75S01F(TE85R)
Q201,Q202 SWITCHING	2SK880GR(TE85L)
L201,L202 220 uH	NL322522T-221J
RA201,RA203 1K ARRAY	MNR14E0ABJ102
RA202 4.7K ARRAY	MNR14E0ABJ472
R201,R204 47K	MCR10EZHJ473
R202 56K	MCR10EZHJ563
R203 27K	MCR10EZHJ273
R205,R227 270K	MCR10EZHJ274
R207,R216,R221,R222,R228, R229, R230,R241,R242 100K	MCR10EZHJ104
R208,R215 33K	MCR10EZHJ333
R209,R223 5.6K	MCR10EZHJ562
R210,R217,R226 10K	MCR10EZHJ103
R211 82K	MCR10EZHJ823
R212,R225 39K	MCR10EZHJ393
R213 18K	MCR10EZHJ183
R214 22K	MCR10EZHJ223
R219 1M	MCR10EZHJ105
R220 JUMPER	MCR10EZHJR00
R231 180K	MCR10EZHJ184
R232 33	MCR10EZHJ330
R239,R244 1K	MCR10EZHJ102
X201 CRYSTAL, 3.58 MHZ	SMX-3F(3.579545MHZ)
X202 CRYSTAL, 4.19 MHZ	DS-MAT309(4.19MHZ)

