

VHF50 PART'S LIST

REV 0 2003/09/03

VHF50 DIGITAL BOARD

Item	Part Type	VALUE	Description	Qty	Reference	VENDOR
	SMD PART'S					
	CHIP CERAMIC CAPCITOR	10P	GRM39 COG 100D 50V	2	C121, C120	MURATA
	CHIP CERAMIC CAPCITOR	470P	GRM39 C0G 471J 50V	4	C20, C55, C275, C300	MURATA
	CHIP CERAMIC CAPCITOR	560P	GRM39 X7R 561K 50V	1	C53	MURATA
	CHIP CERAMIC CAPCITOR	1000P	GRM39 X7R 102K 50V	2	C271, C281	MURATA
	CHIP CERAMIC CAPCITOR	5600P	GRM39 X7R 562K 50V	1	C269	MURATA
	CHIP CERAMIC CAPCITOR	0.01U	GRM39 X7R 273K 25V	3	C262, C83, C274	
	CHIP CERAMIC CAPCITOR	0.027u	GRM39 X7R 273K 25V	1	C265	MURATA
	CHIP CERAMIC CAPCITOR	0.033u	GRM39 X7R 333K 25V	1	C266	MURATA
	CHIP CERAMIC CAPCITOR	0.047u	GRM39 X7R 473K 25V	3	C264, C267, C276	MURATA
	CHIP CERAMIC CAPCITOR	0.056u	GRM39 X7R 563K 16V	1	C268	MURATA
	CHIP CERAMIC CAPCITOR	0.068u	GRM39 X7R 683K 16V	1	C226	MURATA
	CHIP CERAMIC CAPCITOR	0.1u	GRM39 Y5Z 104Z 25V	7	C21, C47, C270, C273, C280, C282, C279	MURATA
	CHIP CERAMIC CAPCITOR	0.1u	GRM39 X7R 104K 16V	1	C263	MURATA
	CHIP CERAMIC CAPCITOR	0.22u	GRM39 X7R 224K 10V	1	C258	MURATA
	CHIP CERAMIC CAPCITOR	1U	GRM39 Y5V 105Z 10V	1	C260	MURATA
	CHIP CERAMIC CAPCITOR	4.7u	GRM40 Y5V 475Z 10V	3	C278, C277, C284	MURATA
	CHIP TANTAL 10UF 6.3V SMT-A	10U/6V3	293D106X06R3A2T	1	C87	DAEWOO
	CHIP TANTAL 22UF 10V SMT-B	22UF/10V	293D226/10VX04A2T	1	C283	DAEWOO
	CHIP TANTAL 100UF 4V SMT-C	100UF/4V	293D107X04A2T	2	C99, C105	DAEWOO
	CHIP RESISTOR	0R	0R0 5% 1/16W	2	R76, R251	R. OHM KOREA
	CHIP RESISTOR	10R	100 5% 1/16W J	1	R215	R. OHM KOREA
	CHIP RESISTOR	910R	911 5% 1/16W J	1	R84	R. OHM KOREA
	CHIP RESISTOR	1K	102 5% 1/16W J	2	R225, R224	R. OHM KOREA
	CHIP RESISTOR	1.5K	152 5% 1/16W J	2	R77, R81	R. OHM KOREA
	CHIP RESISTOR	1.8K	182 5% 1/16W J	1	R212	R. OHM KOREA
	CHIP RESISTOR	2K	202 5% 1/16W J	1	R61	R. OHM KOREA
	CHIP RESISTOR	2.7K	272 5% 1/16W J	1	R211	R. OHM KOREA
	CHIP RESISTOR	3K	302 5% 1/16W J	2	R213, R207	R. OHM KOREA
	CHIP RESISTOR	3.6K	362 5% 1/16W J	1	R80	R. OHM KOREA
	CHIP RESISTOR	4.7K	472 5% 1/16W J	4	R195, R73, R196, R208	R. OHM KOREA
	CHIP RESISTOR	5.6K	562 5% 1/16W J	1	R167	R. OHM KOREA
	CHIP RESISTOR	8.2K	822 5% 1/16W J	2	R30, R205	R. OHM KOREA
	CHIP RESISTOR	10K	103 5% 1/16W J	5	R72, R220, R221, R86, R204	R. OHM KOREA
	CHIP RESISTOR	12K	123 5% 1/16W J	1	R83	R. OHM KOREA
	CHIP RESISTOR	15K	153 5% 1/16W J	1	R88	R. OHM KOREA
	CHIP RESISTOR	20K	203 5% 1/16W J	1	R202	R. OHM KOREA
	CHIP RESISTOR	22K	223 5% 1/16W J	1	R64	R. OHM KOREA
	CHIP RESISTOR	27K	273 5% 1/16W J	1	R206	R. OHM KOREA
	CHIP RESISTOR	33K	333 5% 1/16WJ	1	R203	R. OHM KOREA

	CHIP RESISTOR	47K	473 5% 1/16W J	18	R303, R302, R301, R87, R32, R74, R89, R90, R91, R50, R223 R71, R85, R62, R70, R216, R217, R67	R. OHM KOREA
	CHIP RESISTOR	56K	563 5% 1/16W J	1	R199,	R. OHM KOREA
	CHIP RESISTOR	68K	683 5% 1/16W J	1	R218	R. OHM KOREA
	CHIP RESISTOR	100K	104 5% 1/16W J	1	R143	R. OHM KOREA
	CHIP RESISTOR	180K	184 5% 1/16W J	1	R197	R. OHM KOREA
	CHIP RESISTOR	330K	334 5% 1/16W J	3	R198, R68, R69	R. OHM KOREA
	CHIP RESISTOR	470K	474 5% 1/16W J	1	R210	R. OHM KOREA
	CHIP RESISTOR	680K	684 5% 1/16W J	1	R209	R. OHM KOREA
	CHIP RESISTOR	1M	105 5% 1/16W J	2	R82, R115	R. OHM KOREA
	CHIP RESISTOR	150R	151 5% 1/10W(0805)	2	R219, R200	R. OHM KOREA
	CHIP LED	LED	BL-HG 036D	5	D7, D11, D15, D33, D34	OS-TECH
	CHIP LED	LED	BL-HG 034C	4	D25, D26, D30, D31	OS-TECH
	SWITCH DIODE	KDS160	KDS160	2	D6, D29	KEC
	TRANSISTOR	KRA101S	KRA101S	1	Q54	KEC
	TRANSISTOR	KRA105S	KRA105S	1	Q15	KEC
	TRANSISTOR	KTA1504S	KTA1504S	1	Q50	KEC
	FET	2SK1588	2SK1588	1	Q38	HITACHI
	TRANSISTOR	KRC104S	KRC104S	10	Q9, Q10, Q12, Q18, Q37, Q39, Q51, Q52, Q49, Q53	KEC
	I.C. REGULATOR	TK11250AMTR	TK11250AMTR	1	IC9	TOKO
	IC	CPU	TMP87CM21F	1	IC5	HITACHI
	I.C. EEPROM	24LC02B	24LC02B	1	IC8	MICRO CHIP
	I.C AUDIO AMP	TDA7233D	TDA7233D	1	IC10	SGS TOMSON
	I.C QUAD OP AMP DIP14/S0	KIA324	KIA324	1	U3	KEC
	X-TAL	4.1943MHz	4.19MHz(HC-49/LMD)	1	XT3	K-WELL
	CONNECTOR	6PIN	F127-F-6DSG(SMD)	1	CON1	FINE
	CONNECTOR	18PIN	F127-F-18DSG(SMD)	1	CON2	FINE
	MANUAL PART'S					
	MIC	C-MIC	OB 27P40	1	MIC1	BSE
	SPEAKER	8OHM	SM-3608S	1	SPK2	SHIN MEOUNG
	ANT	ANT	DS-VHF-50	1	ANT1	DASUN
	LCD	LCD	GS-32465-0-TF2WU	1	LCD1	WOOHO
	DIGITAL PCB	PCB	DIGITAL PCB 2 LAYOR(VHF50)	1	PCB	T.M.E.
	POWER WIRE	WIRE	54mm (BLACK, RED)	2		
	CONNECTOR	2PIN HOUSING	53014-0200	1	BATT-CON2	FINE
	TERMINAL	TERMINAL	CHG TERMINAL(+/-)	2		
	BATTERY	BATTERY ASS'Y	GP	1		GP

VHF50 RF BOARD

Item	Part Type	VALUE	Description	Qty	Reference	VENDOR
	SMD PART'S					
	CHIP CERAMIC CAPCITOR	1P	GRM36 C0G 1R0C 50V	1	C57	TDK
	CHIP CERAMIC CAPCITOR	3P	GRM36 C0G 3R0C 50V	1	C82	TDK
	CHIP CERAMIC CAPCITOR	4P	GRM36 C0G 4R0C 50V	3	C201, C150, C190	TDK

	CHIP CERAMIC CAPCITOR	5P	GRM36 C0G 5R0C 50V	1	C8	TDK
	CHIP CERAMIC CAPCITOR	6P	GRM36 C0G 6R0D 50V	1	C29	TDK
	CHIP CERAMIC CAPCITOR	7P	GRM36 C0G 7R0D 50V	1	C208	TDK
	CHIP CERAMIC CAPCITOR	9P	GRM36 C0G 9R0D 50V	1	C77	TDK
	CHIP CERAMIC CAPCITOR	10P	GRM36 C0G 100D 50V	6	C18, C16, C12, C13, C71, C34	TDK
	CHIP CERAMIC CAPCITOR	12P	GRM36 C0G 120J 50V	2	C204, C178,	TDK
	CHIP CERAMIC CAPCITOR	15P	GRM36 C0G 150J 50V	3	C205, C151, C15	TDK
	CHIP CERAMIC CAPCITOR	20P	GRM36 C0G 200J 50V	3	C10, C17, C33,	TDK
	CHIP CERAMIC CAPCITOR	22P	GRM36 C0G 220J 50V	2	C168, C189	TDK
	CHIP CERAMIC CAPCITOR	33P	GRM36 C0G 330J 50V	4	C167, C174, C14, C36	TDK
	CHIP CERAMIC CAPCITOR	39P	GRM36 C0G 390J 50V	6	C203, C209, C210, C175, C152, C177	TDK
	CHIP CERAMIC CAPCITOR	47P	GRM36 C0G 470J 50V	9	C158, C206, C176, C7, C46, C19, C48, C73, C35	TDK
	CHIP CERAMIC CAPCITOR	56P	GRM36 C0G 560J 50V	1	C197	TDK
	CHIP CERAMIC CAPCITOR	68P	GRM36 C0G 680J 50V	2	C202, C44	TDK
	CHIP CERAMIC CAPCITOR	100P	GRM36 C0G 101J 50V	1	C187	TDK
	CHIP CERAMIC CAPCITOR	220P	GRM36 C0G 221J 50V	4	C25, C26, C179, C143	TDK
	CHIP CERAMIC CAPCITOR	470P	GRM36 C0G 471J 50V	6	C148, C194, C2, C1, C173, C182	TDK
	CHIP CERAMIC CAPCITOR	1000P	GRM36 X7R 102K 50V	1	C180	TDK
	CHIP CERAMIC CAPCITOR	0.01u	GRM36 X7R 103K 50V	8	C32, C98, C31, C170, C28, C27, C211, C11	TDK
	CHIP CERAMIC CAPCITOR	0.047u	GRM36 X7R 473K 25V	2	C68, C153	TDK
	CHIP CERAMIC CAPCITOR	0.068u	GRM36 X7R 683K 16V	1	C22	TDK
	CHIP CERAMIC CAPCITOR	0.1u	GRM36 Y5Z 104Z 25V	9	C70, C186, C172, C192, C58, C213, C184, C183, C185	TDK
	CHIP CERAMIC CAPCITOR	0.1u	GRM36 X7R 104K 16V	5	C79, C67, C24, C23, C6	TDK
	CHIP CERAMIC CAPCITOR	1P	GRM39 C0G 1R0C 50V	2	C43, C59	MURATA
	CHIP CERAMIC CAPCITOR	10P	GRM39 C0G 100D 50V	2	C75, C41	MURATA
	CHIP CERAMIC CAPCITOR	13P	GRM39 C0G 130J 50V	1	C4	MURATA
	CHIP CERAMIC CAPCITOR	15P	GRM39 C0G 150J 50V	1	C200	MURATA
	CHIP CERAMIC CAPCITOR	30P	GRM39 C0G 300J 50V	1	C136	MURATA
	CHIP CERAMIC CAPCITOR	56P	GRM39 C0G 560J 50V	1	C51	MURATA
	CHIP CERAMIC CAPCITOR	470P	GRM39 C0G 471J 50V	1	C135	MURATA
	CHIP CERAMIC CAPCITOR	1000P	GRM39 X7R 102K 50V	2	C42, C5	MURATA
	CHIP CERAMIC CAPCITOR	1U	GRM39 Y5V 105Z 10V	3	C191, C198, C56	MURATA
	CHIP CERAMIC CAPCITOR	4.7u	GRM40 Y5V 475Z 10V	4	C69, C188, C193, C84	MURATA
	CHIP TANTAL 1UF 10V SMT-A	1UF/10V	293D105/10VX04A2T	1	C9	DAEWOO
	CAPISITOR TRIMMER 3DIA TOP ADJUST	10PF	TZC03R100A	1	TC3	MURATA
	CHIP RESISTOR	0R1	0R1 5% 1W J	1	R35	KAMAYA
	CHIP RESISTOR	0R	0R0 5% 1/16W	1	R92	KAMAYA
	CHIP RESISTOR	22R	220 5% 1/16W J	1	R1	KAMAYA
	CHIP RESISTOR	33R	330 5% 1/16W J	1	R169	KAMAYA
	CHIP RESISTOR	39R	390 5% 1/16W J	2	R34, R60	KAMAYA
	CHIP RESISTOR	56R	560 5% 1/16W J	1	R51	KAMAYA
	CHIP RESISTOR	68R	680 5% 1/16W J	1	R42	KAMAYA
	CHIP RESISTOR	100R	101 5% 1/16W J	6	R45, R40, R9, R142, R164, R54	KAMAYA
	CHIP RESISTOR	150R	151 5% 1/16W J	1	R181	KAMAYA
	CHIP RESISTOR	180R	181 5% 1/16W J	2	R170, R146	KAMAYA

	CHIP RESISTOR	220R	221 5% 1/16W J	4	R43, R36, R10, R14	KAMAYA
	CHIP RESISTOR	330R	331 5% 1/16W J	1	R26	KAMAYA
	CHIP RESISTOR	820R	821 5% 1/16W J	2	R52, R75	KAMAYA
	CHIP RESISTOR	1.5K	152 5% 1/16W J	1	R39	KAMAYA
	CHIP RESISTOR	2.2K	222 5% 1/16W J	5	R47, R12, R28, R29, R162	KAMAYA
	CHIP RESISTOR	2.7K	272 5% 1/16W J	2	R171, R59	KAMAYA
	CHIP RESISTOR	3.3K	332 5% 1/16W J	2	R37, R20	KAMAYA
	CHIP RESISTOR	3.9K	392 5% 1/16W J	4	R2, R24, R23, R58	KAMAYA
	CHIP RESISTOR	4.7K	472 5% 1/16W J	7	R15, R44, R18, R27, R63, R19, R55	KAMAYA
	CHIP RESISTOR	5.6K	562 5% 1/16W J	3	R95, R163, R158	KAMAYA
	CHIP RESISTOR	6.8K	682 5% 1/16W J	1	R65	KAMAYA
	CHIP RESISTOR	8.2K	822 5% 1/16W J	1	R66	KAMAYA
	CHIP RESISTOR	10K	103 5% 1/16W J	5	R13, R57, R25, R49, R21	KAMAYA
	CHIP RESISTOR	12K	123 5% 1/16W J	1	R157	KAMAYA
	CHIP RESISTOR	15K	153 5% 1/16W J	3	R41, R31, R79	KAMAYA
	CHIP RESISTOR	47K	473 5% 1/16W J	3	R78, R8, R11	KAMAYA
	CHIP RESISTOR	56K	563 5% 1/16W J	1	R46	KAMAYA
	CHIP RESISTOR	68K	683 5% 1/16W J	2	R94, R4	KAMAYA
	CHIP RESISTOR	82K	823 5% 1/16W J	3	R33, R16, R6	KAMAYA
	CHIP RESISTOR	100K	104 5% 1/16W J	2	R3, R5	KAMAYA
	CHIP RESISTOR	150K	154 5% 1/16W J	3	R38, R17, R159	KAMAYA
	CHIP RESISTOR	220K	224 5% 1/16W J	1	R7	KAMAYA
	CHIP RESISTOR	4.7M	475 5% 1/16W J	1	R176	KAMAYA
	CHIP RESISTOR	5.6M	565 5% 1/16W J	1	R48	KAMAYA
	CHIP RESISTOR	68K	683 0.5% 1/16W	2	R156, R160	KAMAYA
	CHIP RESISTOR	220K	224 0.5% 1/16W	2	R151, R155	KAMAYA
	CHIP RESISTOR	220R	221 5% 1/16W J	1	R56	KAMAYA
	CHIP RESISTOR	47K	473 5% 1/16W J	1	R22	KAMAYA
	CHIP RESISTOR TRIMMER	10K	TMC3KJ 10Kohm	1	RV2	NOBLE
	CHIP RESISTOR TRIMMER	22K	TMC3KJ 22Kohm	1	RV3	NOBLE
	CHIP RESISTOR TRIMMER	2.2K	TMC3KJ 2.2Kohm	1	RV1	NOBLE
	CHIP THERMISTOR	10K	TBP S1 R 103 J 440 H 5Q	1	TH1	TAIYOYUDEN
	CHIP THERMISTOR	22K	TBP S1 R 223 J 440 H 5Q	1	TH2	TAIYOYUDEN
	CHIP INDUCTOR 1608 33NH	33NH	HK1005-33NK-T	1	L4	TAIYOYUDEN
	CHIP INDUCTOR 1608 47NH	47NH	HK1005-47NK-T	2	L29, L32	TAIYOYUDEN
	CHIP INDUCTOR 1608 82NH	82NH	HK1005-82NK-T	1	L9	TAIYOYUDEN
	CHIP INDUCTOR 1608 100NH	100NH	HK1005-R10K-T	5	L10, L33, L30, L26, L2	TAIYOYUDEN
	CHIP INDUCTOR 1608 1UH	1UH	LK1608-1R0K-T	1	L22, L7	TAIYOYUDEN
	CHIP INDUCTOR 1608 2.2UH	2.2UH	LK1608-2R2K-T	1	L11	TAIYOYUDEN
	CHIP INDUCTOR 1608 47nH	47nH	0603CS-470EJTS	4	L31, L34, L35, L36	DELTA(K-TEK)
	INDUCTOR SMD LEM2520 68NH	68NH	LEM 2520T 68NJ	1	L23	TAIYOYUDEN
	INDUCTOR SMD LEM2520 2.2uH	2.2uH	LEM 2520T 2.2uH	1	L27	TAIYOYUDEN
	COIL IND 0.5-1.4-4TL SMD	50144TL	50144TL	1	L6	DAELIM
	COIL IND 0.35-1.6-7TL SMD	35167TL	35167TL	1	L21	DAELIM

	COIL IND 0.4-2.4-6TL SMD	40246TL	40246TL	2	L5, L25	DAELIM
	COIL IND 0.4-2.4-7TL SMD	40247TL	40247TL	1	L24	DAELIM
	SWITCH DIODE	KDS114E	KDS114E	3	D5, D8, D9	KEC
	SWITCH DIODE	KDS160E	KDS160E	4	D1, D12, D24, D13	KEC
	SWITCH DIODE	KDS114	KDS114	1	D3	KEC
	SWITCH DIODE	UPP9401	UPP9401	1	D2	ONSEMI
	VARICAP DIODE	HVC 358B	HVC 358B	1	D4	HITACHI
	VARICAP DIODE	KDV154E	KDV154E	1	D23	KEC
	TRANSISTOR	2SC4901	2SC4901	5	Q4, Q5, Q29, Q7, Q8	HITACHI
	TRANSISTOR	KRA305S	KRA305S	3	Q20, Q24, Q1	KEC
	TRANSISTOR	KRC404S	KRC404S	5	Q2, Q17, Q25, Q27, Q30	KEC
	TRANSISTOR	KTC4075	KTC4075	1	Q36	KEC
	TRANSISTOR	KTC4080S	KTC4080S	1	Q6	KEC
	TRANSISTOR	BCX17	BCX17	1	Q19	ON SEMI
	RF POWER TR	MMBR951	MMBR951	1	Q16	MOTOROLA
	RF POWER FET	2SK3074	2SK3074	1	Q3	TOSHIBA
	RF POWER FET	2SK3476	2SK3476	1	Q11	TOSHIBA
	FM IF IC	TA31136	TA31136	1	IC4	TOSHIBA
	PLL IC	TB31202FN	TB31202FN	1	IC3	TOSHIBA
	I.C DUAL OP-AMP	KIA358AFK	KIA358AFK	1	U1	KEC
	MANUAL PART'S					
	CONNECTOR	18PIN	F127-M-18DSGW(10mm)	1	CON1	FINE
	X-TAL FILTER	21.7MHz	21.7M15BU	1	XF1	K-WELL
	X-TAL	21.25MHz	21.25MHz(HC-49/LMD)	1	XT1	K-WELL
	DESCRIMINATOR	450C	JTBC450C7	1	DEC1	CQ
	CERAMIC FILTER	450KHz	LTWC 450F	1	CF1	CQ
	RF PCB	PCB	RF PCB 4 LAYER (VHF50)	1		