



Bill Of Materials

LI	QTY	REF	VALUE	LPN #	DESCRIPTION	MFG	MFG #
1	21	C1,C24,C25,C33,C34,C45,	33uF	110-00001-01	CAP,33uF,10V,TANT,EIA "B"	Panasonic	ECS-T1AX336R
		C46,C56,C63,C72,C89,C97,					
		C106,C107,C108,C109,C110,					
		C167,C169,C171,C173					
2	62	C2,C3,C4,C6,C9,C10,C12,	0.1uF	110-00002-01	CAP,0.1uF,16V,X7R,0603	Panasonic	ECJ-1VB1C104K
		C14,C15,C16,C17,C18,C19,					
		C20,C22,C23,C26,C27,C28,					
		C29,C30,C31,C32,C35,C36,					
		C37,C38,C39,C40,C41,C42,					
		C43,C44,C55,C59,C62,C66,					
		C102,C104,C105,C111,C112,					
		C113,C114,C115,C116,C117,					
		C123,C124,C125,C132,C133,					
		C134,C135,C136,C141,C142,					
		C146,C149,C159,C168,C183					
3	8	C5,C13,C47,C75,C150,C170,	0.01uF	110-00023-01	CAP,0.01uF,50V,X7R,10%,0603	NIC	NMC0603X7R103K50TRP
		C174,C184					
4	2	C7,C8	15pF	110-00003-01	CAP,15pF,100V,NPO,0603	Panasonic	ECJ-1VC2A150J
6	14	C48,C49,C50,C51,C52,C53,	1000 pF	110-00004-01	CAP,1000pF,50V,X7R,0603	Panasonic	ECJ-1VB1H102K
		C54,C83,C84,C85,C86,C176,					
		C181,C182					
7	8	C57,C60,C64,C67,C70,C71,	0.1uF	110-00005-01	CAP,0.1uF,25V,X7R,0805	Panasonic	ECJ-2VB1E104K
		C73,C74					
8	4	C58,C61,C65,C68	0.47uF	110-00006-01	CAP,0.47uF,16V,X7R,0805	Panasonic	ECJ-2YB1C474K
9	2	C87,C88	0.27uF	110-00015-01	CAP,0.27uF,25V,X7R,1206	Panasonic	ECJ-3VB1E274K
10	3	C90,C93,C175	100uF	110-00016-01	CAP,100uF,16V,<ESR TANT,EIA "D"	AVX	TPSD107M016R0200
11	12	C91,C143,C144,C145,C147,	1uF	110-00010-01	CAP,1uF,25V,X7R,1206	Panasonic	ECJ-3YB1E105K
		C148,C151,C152,C158,C163,					
		C165,C166					
12	3	C92,C94,C164	22uF	110-00011-01	CAP,22uF,25V,<ESR TANT,EIA "D"	AVX	TPSD226M025R0200
13	2	C95,C96	1500pF	110-00017-01	CAP,1500pF,50V,X7R,0805	Panasonic	ECJ-2VB1H152K
17	1	C172	100pF	110-00008-01	CAP,100pF,100V,NPO,0805	Panasonic	ECJ-2VC2A101J
18	13	D1,D2,D3,D4,D5,D6,D49,	Green	120-00001-01	LED,GREEN,1206	Chicago Miniture Lamp	CMD15-21VGC/TR8

LI	QTY	REF	VALUE	LPN #	DESCRIPTION	MFG	MFG #
		D50,D51,D52,D53,D54,D57					
19	5	D7,D14,D21,D28,D48	3.3V	120-00002-01	DIODE,TVS ARRAY,SRDA3.3-4	Semtech	SRDA3.3-4
20	24	D8,D9,D10,D11,D12,D13,	64V	120-00003-01	DIODE,SIDACTOR,64V,P0640S_C	Teccor	P0640S_C
		D15,D16,D17,D18,D19,D20,					
		D22,D23,D24,D25,D26,D27,					
		D29,D30,D31,D32,D33,D34					
21	4	D36,D37,D38,D39	3A 200V	120-00007-01	DIODE,200V,3A,S3DB-13,SMB	Diodes, Inc.	S3DB-13
22	1	D41	LCDA15C-1	120-00016-01	DIODE,TVS,LCDA15C-1, SOT-143	SEMTECH	LCDA15C-1
23	2	D45,D44	1N4148W	120-00009-01	DIODE,75V,350mW,1N4148,SOD-123	Diodes Inc.	1N4148W
24	2	D47,D46	MBRS330T3	120-00010-01	DIODE,30V,3A,MBR330,SMC	ON Semi	MBRS330T3
25	2	D55,D58	SMAZ9V1	120-00018-01	DIODE,ZENER,9.1V,SMAZ9V1,SMA	Diodes Inc.	SMAZ9V1
26	1	D56	SMAZ5V1	120-00012-01	DIODE,ZENER,5.1V,SMAZ5V1,SMA	Diodes Inc.	SMAZ5V1
27	1	D59	B140	120-00014-01	DIODE,SCHOTTKY,B140,SMA	Diodes, Inc	B140-13
28	16	F1,F2,F3,F4,F5,F6,F7,F8,	2.0A	150-00004-01	FUSE,2A,250V,461 SERIES	Littlefuse	461002
		F9,F10,F11,F12,F13,F14,					
		F15,F16					
29	1	F17	3A 125V	150-00005-01	FUSE,3A,125V,7343	Littlefuse	R460003
30	1	JH1	DB25	310-00020-01	CONN,DB25,VERTICAL,MALE	AMP	2-747704-0
31	1	JH2	2 PIN	310-00023-01	Header,2X0.1",STRAIGHT,KK,MOLEX	MOLEX	22-23-2021
32	2	JP9,JP1	HEADER 5X2	310-00002-01	CONN,HEADER,5X2,KEYED_SHROUD	AMP	103308-1
34	1	JP4	Conn 1X7	310-00004-01	CONN,HEADER,1X7,VERTICAL,TH	AMP	640452-6
36	1	JR1	30X2 RECEPTACLE	310-00022-01	CONN,30X2,2MM,RECEPTACLE	Sullins	PPWN302AFCN
37	1	J5	RJ45	310-00007-01	CONN,MODULAR JACK,RJ45,VERTICAL	MOLEX	85508-0001
38	2	L1,L2	CTX8-4	140-00001-01	IND,8UH,3.5A,TOROID,SMT	Cooper Electronics	CTX8-4
39	3	L3,R6,R10	0 ohm	100-00004-01	RES,0 OHM,1/4W,1206	NIC	NRC12ZOTR
40	2	L4,L19	10UH	140-00022-01	IND,10UH,POWER,PM54	JW Miller	PM54-100M
42	11	M1,M3,M4,M5,M6,M7,M9,M10,	IND,FERRITE BEAD	140-00004-01	IND,FERRITE BEAD,0603	Murata	BLM11A121S
		M11,M12,M13					
43	2	R7,R1	30	100-00001-01	RES,30 OHM,1/16W,5%,0603	Panasonic	ERJ-3GSYJ30
44	6	R2,R3,R9,R11,R130,R171	15	100-00002-01	RPAK,4-ISO,15 OHM,1/10W,5%,SMT	Panasonic	EXB-V8V150JV
45	26	R4,R5,R8,R39,R45,R51,R57,	4.7K	100-00003-01	RES,4.7K,1/16W,5%,0603	Panasonic	ERJ-3GSYJ4.7K
		R73,R76,R82,R93,R94,R103,					
		R104,R105,R106,R107,R111,					
		R112,R116,R117,R124,R126,					
		R154,R174,R177					
46	11	R12,R13,R14,R15,R16,R17,	130	100-00007-01	RES,130 OHM,1/10W,5%,0805	Panasonic	ERJ-6GEY130
		R132,R133,R134,R135,R156					
47	3	R18,R19,R21	4.7K	100-00008-01	RPAK,4-ISO,4.7K,1/10W,5%,SMT	Panasonic	EXB-V8V4.7KJV
48	22	R20,R25,R26,R27,R28,R36,	0 ohm	100-00009-01	RES,0 OHM,1/10W,0603	NIC	NRC06ZOTR
		R38,R43,R44,R49,R50,R55,					
		R56,R90,R91,R127,R158,					

LI	QTY	REF	VALUE	LPN #	DESCRIPTION	MFG	MFG #
		R160,R165,R167,R169,R184					
49	10	R23,R70,R75,R78,R79,R80,	10K	100-00010-01	RES,10K,1/10W,1%,0603	NIC	NRC06F1002TR
		R81,R122,R123,R170					
51	8	R34,R35,R41,R42,R47,R48,	60.4	100-00012-01	RES,60.4 OHM,1/10W,1%,0805	Panasonic	ERJ-3EKF60.4
		R53,R54					
53	1	R69	37.4K	100-00023-01	RES,37.4K,1/16W,1%,0603	Panasonic	ERJ-3EKF37.4K
54	1	R71	56.4K	100-00024-01	RES,56.4K,1/16W,1%,0603	Panasonic	ERJ-3EKF3.16K
55	2	R72,R141	20.5K	100-00025-01	RES,20.5K,1/16W,1%,0603	Panasonic	ERJ-3EKF20.5K
56	7	R74,R77,R125,R128,R172,	100	100-00005-01	RES,100 OHM,1/10W,1%,0603	NIC	NRC06F1000TR
		R175,R179					
58	1	R85	6.2K	100-00028-01	RES,6.2K,1/10W,5%,0805	Panasonic	ERJ-6GEY6.2K
59	1	R86	1.82K	100-00030-01	RES,1.82K,1/10W,1%,0805	Panasonic	ERJ-6ENF1.82K
60	3	R87,R88,R89	4.99K	100-00031-01	RES,4.99K,1/10W,1%,0805	Panasonic	ERJ-6ENF4.99K
61	6	R92,R95,R98,R100,R162,	75	100-00032-01	RES,75 OHM,1/16W,1%,0603	Panasonic	ERJ-3EKF75
		R163					
62	5	R96,R97,R99,R101,R139	2.00K	100-00033-01	RES,2.00K,1/16W,1%,0603	Panasonic	ERJ-3EKF2.00K
64	8	R109,R110,R157,R159,R161,	0 ohm	100-00068-01	RES,0 OHM,1/8W,0805	NIC	NRC10ZOTR
		R164,R166,R168					
65	4	R113,R136,R152,R178	15	100-00006-01	RES,15 OHM,1/10W,1%,0603	NIC	NRC06F15R0TR
66	2	R142,R137	820K	100-00014-01	RES,820K,1/10W,5%,0805	Panasonic	ERJ-6GEY820K
67	2	R138,R140	270K	100-00071-01	RES,270K,1/16W,1%,0603	Panasonic	ERJ-3EKF270K
73	2	R153,R155	475	100-00043-01	RES,475 OHM,1/10W,1%,0603	NIC	NRC06F4750TR
74	1	R181	1K	100-00040-01	RES,1K,1/10W,1%,0603	NIC	NRC06F1001TR
75	1	R182	130K	100-00076-01	RES,130K,1/10W,1%,0603	NIC	NRC06F1303TR
76	1	R183	300K	100-00077-01	RES,300K,1/10W,1%,0603	NIC	NRC06F3003TR
77	1	SW1	SWITCH,PUSHBUT TON,SMT	150-00003-01	SWITCH,PUSHBUTTON,SMT	Panasonic	EVQ-PPBA25
78	12	TP1,TP2,TP3,TP4,TP5,TP6,	CONN,SMT,TEST POINT	310-00008-01	CONN,SMT,TEST POINT	Keystone	5016
		TP7,TP8,TP9,TP10,TP11,					
		TP12					
79	4	T1,T2,T3,T4	XFMR,T1/E1,wth_C M_choke,T1212	140-00005-01	XFMR,T1/E1,CM CHOKE,T1212	Pulse	T1212
80	2	U7,U2	NC7SZ04M5	200-00002-01	IC,TINYLOGIC INV.,SOT23-5	Fairchild	NC7SZ04M5
81	2	U9,U4	NC7SZ08M5	200-00004-01	IC,TINYLOGIC AND,SOT23-5	Fairchild	NC7SZ08M5
82	1	U6	NC7SZ32M5	200-00006-01	IC,TINYLOGIC OR,SOT23-5	Fairchild	NC7SZ32M5
83	1	U8	MAX3232EWE	200-00007-01	IC,DUAL RS232 XCVR,16 WIDE SO	MAXIM	MAX3232EWE
84	1	U10	IC,FPGA,XC2S100- 5TQ144I	200-00008-01	IC,FPGA,XC2S100-5TQ144I,TQFP144	Xilinx	XC2S100-5TQ144I
86	1	U12	LT1764EQ-2.5	200-00009-01	IC,LDO,REGULATOR,2.5V,DD5	Linear	LT1764EQ-2.5

LI	QTY	REF	VALUE	LPN #	DESCRIPTION	MFG	MFG #
87	1	U13	IC,EEPROM,XC18V	200-00010-01	IC,EEPROM,XC18V01SO20I,SOIC20	Xilinx	XC18V01SO20I
88	4	U15,U16,U17,U18	IC, LIU, T1/E1, DS21348TN	200-00012-01	IC,LIU,T1/E1,DS21348TN	Dallas/Maxim	DS21348TN
89	1	U19	SP3485EN	200-00005-01	IC,RS485 XCVR,8NSOIC	SIPEX	SP3485EN
91	2	U23,U21	LT1374	200-00015-01	IC,SW. REGULATOR,LT1374,DD7	Linear Technology	LT1374IR
92	1	U22	MC7805BDT	200-00016-01	IC,REGULATOR,MC7805,DPAK	ON SEMI	MC7805BDT
93	1	U24	BCM6020	200-00017-01	IC,MODEM,BCM6020,PQFP100	Broadcom	BCM6020KPF
94	2	U31,U30	OPA2343	200-00053-01	IC,OP-AMP,OPA2343,SO8	TEXAS INSTRUMENTS	OPA2343UA
95	1	U32	DS2432	200-00054-01	IC,1K EEPROM,SHA-1,DS2432,TSOC6	MAXIM	DS2432
96	1	U33	ATmega32L	200-00055-01	IC,uP,FLASH,ATMEGA32L-8AI	Atmel	ATmega32L-8AI
97	1	U34	MAX735ESA	200-00041-01	IC,P/S,-5VDC,MAX735ESA,SO8	Maxim	MAX735ESA
98	1	U35	UHE-12/2500-Q48	200-00052-01	IC,PS,ISO -18-75V,P51	Datel	UHE-12/2500-Q48
100	1	Y1	4.000 MHz	180-00002-01	XTAL,4.00MHz,MA-506,SMT	Epson	MA-506 4.000M-C2
101	1	Y2	16.384 MHz VCXO 90ppm	180-00005-01	VCXO,16.384MHz,3.3V,90PPM,SMD	CITIZEN	CSX-750VBEL16.384MTR
102	1	Y3	2.048MHz	180-00001-01	OSC,2.048MHz,3.3V,25PPM,SMT	MMD Components	MI3025H48AH-2.048MHz

DNI							
5	7	C21,C140,C156,C177,C178,C179,C180	DNI	110-00002-01	CAP,0.1uF,16V,X7R,0603	Panasonic	ECJ-1VB1C104K
14	8	C101,C103,C121,C122,C127,C128,C130,C131	DNI	110-00004-01	CAP,1000pF,50V,X7R,0603	Panasonic	ECJ-1VB1H102K
15	6	C153,C154,C155,C157,C161,C162	DNI	110-00010-01	CAP,1uF,25V,X7R,1206	Panasonic	ECJ-3YB1E105K
16	1	C160	DNI	110-00023-01	CAP,0.01uF,50V,X7R,10%,0603	NIC	NMC0603X7R103K50TRP
33	1	JP2	DNI	310-00002-01	CONN,HEADER,5X2,KEYED_SHROUD	AMP	103308-1
35	3	JP5,JP8,JP10	DNI	310-00004-01	CONN,HEADER,1X7,VERTICAL,TH	AMP	640452-6
41	8	L6,L7,L11,L12,L14,L15,L17,L18	DNI	140-00002-01	IND,2.2UH,0805	Panasonic	ELJ-FD2R2KF
50	7	R24,R29,R30,R31,R32,R145,R148	DNI	100-00010-01	RES,10K,1/10W,1%,0603	NIC	NRC06F1002TR
52	4	R37,R84,R173,R176	DNI	100-00001-01	RES,30 OHM,1/10W,1%,0603	NIC	NRC06F30R1TR
57	2	R83,R180	DNI	100-00068-01	RES,0 OHM,1/8W,0805	NIC	NRC10ZOTR
63	2	R108,R144	DNI	100-00009-01	RES,0 OHM,1/10W,0603	NIC	NRC06ZOTR
68	2	R151,R143	DNI	100-00014-01	RES,820K,1/10W,5%,0805	Panasonic	ERJ-6GEY820K
69	2	R146,R149	DNI	100-00071-01	RES,270K,1/16W,1%,0603	Panasonic	ERJ-3EKF270K

LI	QTY	REF	VALUE	LPN #	DESCRIPTION	MFG	MFG #
70	1	R147	DNI	100-00033-01	RES,2.00K,1/16W,1%,0603	Panasonic	ERJ-3EKF2.00K
71	1	R150	DNI	100-00025-01	RES,20.5K,1/16W,1%,0603	Panasonic	ERJ-3EKF20.5K
85	1	U11	DNI	180-00001-01	OSC,2.048MHz,3.3V,25PPM,SMT	MMD Components	MI3025H48AH-2.048MHz
90	1	U20	DNI	200-00014-01	IC,POWER SUPPLY,48V/12V,36W,QB	TYCO	QW030B1
99	1	U36	DNI	200-00007-01	IC,DUAL RS232 XCVR,16 WIDE SO	MAXIM	MAX3232EWE

PCBA,4.9GHz RADIO,SAFETLINK Revised: May 19th, 2004

450-00016-01 Revision: E

Bill Of Materials

LI	QTY	REF	VALUE	LPN#	DESCRIPTION	MFG	MFG#
1	10	ATT2,ATT3,ATT4,	2dB	100-00096-01	RES,2dB,50 OHM,PAT1220	THIN FILM TECHNOLOGY	PAT1220C2DBT
		ATT6,ATT7,ATT8,ATT9,					
		ATT10,ATT11,ATT12					
2	166	C1,C3,C4,C7,C15,C38,C46,	0.01uF	110-00023-01	CAP,0.01uF,50V,X7R,10%,0603	NIC	NMC0603X7R103K50TRP
		C57,C60,C62,C68,C69,C70,					
		C71,C73,C74,C76,C77,C78,					
		C79,C80,C81,C82,C83,C84,					
		C85,C86,C87,C88,C89,C90,					
		C91,C92,C93,C94,C95,C98,					
		C99,C100,C101,C105,C106,					
		C107,C108,C109,C110,C111,					
		C112,C113,C114,C115,C116,					
		C117,C119,C120,C121,C122,					
		C123,C124,C130,C135,C137,					
		C138,C139,C140,C141,C144,					
		C158,C181,C182,C186,C187,					
		C188,C189,C190,C192,C193,					
		C194,C195,C196,C199,C200,					
		C201,C202,C255,C261,C266,					
		C270,C272,C274,C283,C284,					
		C289,C295,C297,C298,C301,					
		C302,C303,C305,C306,C308,					
		C310,C312,C323,C341,C342,					
		C344,C345,C347,C348,C399,					
		C417,C420,C431,C439,C441,					
		C443,C445,C478,C578,C580,					
		C586,C593,C594,C596,C597,					
		C603,C605,C645,C647,C652,					
		C659,C660,C662,C663,C669,					
		C671,C719,C722,C723,C725,					
		C726,C727,C729,C730,C745,					
		C754,C756,C757,C789,C791,					

		C793,C796,C798,C803,C804,					
		C806,C807,C808,C809,C810,					
		C811,C812,C841,C858					
3	53	C2,C11,C14,C26,C35,C39,	100pF	110-00020-01	CAP,100pF,50V,NPO,5%,0603	NIC	NMC0603NPO101J50TRP
		C47,C58,C145,C159,C178,					
		C271,C273,C281,C282,C290,					
		C309,C311,C315,C316,C324,					
		C384,C418,C432,C440,C442,					
		C444,C446,C479,C601,C612,					
		C619,C628,C633,C638,C667,					
		C678,C685,C694,C699,C704,					
		C732,C739,C746,C790,C792,					
		C794,C795,C797,C813,C847,					
		C857,C863					
4	20	C5,C6,C136,C153,C203,	1uF	110-00010-01	CAP,1uF,25V,X7R,1206	Panasonic	ECJ-3YB1E105K
		C204,C279,C313,C350,C357,					
		C415,C416,C576,C579,C587,					
		C591,C643,C646,C653,C657					
5	41	C8,C179,C180,C184,C191,	0.1uF	110-00002-01	CAP,0.1uF,16V,X7R,0603	Panasonic	ECJ-1VB1C104K
		C598,C599,C602,C609,C610,					
		C613,C616,C617,C620,C625,					
		C626,C629,C630,C631,C634,					
		C635,C636,C639,C664,C665,					
		C668,C675,C676,C679,C682,					
		C683,C686,C691,C692,C695,					
		C696,C697,C700,C701,C702,					
		C705					
6	2	C9,C782	15pF	110-00003-01	CAP,15pF,100V,NPO,0603	Panasonic	ECJ-1VC2A150J
7	5	C10,C134,C383,C783,C817	10pF	110-00022-01	CAP,10pF,50V,NPO,0603	NIC	NMC0603NPO100J50TRP
8	46	C12,C29,C31,C32,C33,C34,	18pF	110-00079-01	CAP,18pF,HIQ,5%,250V,0603	ATC	ATC600S180JT250T
		C327,C328,C374,C375,C768,					
		C769,C772,C773,C774,C775,					
		C780,C781,C784,C785,C801,					
		C802,C815,C816,C818,C819,					
		C820,C821,C824,C825,C826,					
		C827,C828,C829,C830,C831,					
		C832,C833,C834,C835,C842,					

		C843,C844,C845,C846,C865					
9	1	C16	0.1uF	110-00005-01	CAP,0.1uF,25V,X7R,0805	Panasonic	ECJ-2VB1E104K
10	2	C17,C856	820pF	110-00035-01	CAP,820pF,50V,X7R,10%,0603	NIC	NMC0603X7R821K50TRP
11	1	C18	1200pF	110-00078-01	CAP,1200pF,50V,NPO,0805	Panasonic	ECJ-2VC1H122J
12	2	C25,C20	680pF	110-00082-01	CAP,680pF,50V,X7R,0603	YAGEO	06032R681K9B20D
13	5	C22,C23,C28,C854,C855	390pF	110-00081-01	CAP,390pF,50V,NPO,0603	YAGEO	0603CG391J9B200
14	2	C24,C292	33pF	110-00027-01	CAP,33pF,50V,NPO,5%,0603	NIC	NMC0603NPO330J50TRP
15	1	C27	560pF	110-00018-01	CAP,560pF,50V,X7R,10%,0603	NIC	NMC0603X7R561K50TRP
16	3	C30,C822,C823	2.7pF	110-00084-01	CAP,2.7pF,HIQ,0.5pF,250V,0603	ATC	ATC600S2R7DT250T
17	26	C49,C59,C147,C291,C325, C367,C368,C369,C370,C371, C372,C377,C378,C419,C731, C738,C770,C771,C778,C779, C799,C800,C814,C851,C853, C859	1000 pF	110-00004-01	CAP,1000pF,50V,X7R,0603	Panasonic	ECJ-1VB1H102K
18	2	C129,C860	39pF	110-00025-01	CAP,39pF,50V,NPO,5%,0603	NIC	NMC0603NPO390J50TRP
19	3	C157,C160,C176	0.1uF	110-00039-01	CAP,0.1uF,50V,X7R,1206	Panasonic	ECJ-3VB1E104K
20	26	C183,C185,C269,C304,C307, C349,C577,C590,C600,C606, C611,C618,C627,C632,C637, C644,C656,C666,C672,C677, C684,C693,C698,C703,C748, C864	33uF	110-00001-01	CAP,33uF,10V,TANT,EIA "B"	Panasonic	ECS-T1AX336R
21	7	C205,C206,C280,C314,C531, C589,C655	22uF	110-00011-01	CAP,22uF,25V,<ESR TANT,EIA "D"	AVX	TPSD226M025R0200
22	16	C275,C276,C277,C278,C287, C288,C321,C322,C573,C574, C575,C592,C640,C641,C642, C658	22pF	110-00033-01	CAP,22pF,50V,NPO,5%,0603	NIC	NMC0603NPO220J50TRP
23	4	C285,C299,C300,C319	100pF	110-00008-01	CAP,100pF,100V,NPO,0805	Panasonic	ECJ-2VC2A101J
24	2	C286,C320	DNI	110-00027-01	CAP,33pF,50V,NPO,5%,0603	NIC	NMC0603NPO330J50TRP
25	7	C326,C373,C776,C777,C787, C788,C805	3.3pF	110-00080-01	CAP,3.3pF,HIQ,0.5pF,250V,0603	ATC	ATC600S3R3DT250T
26	3	C340,C343,C755	68uF	110-00038-01	CAP,68uF,16V,TANT,EIA "D"	NIC	NTC-T686K16TRD
27	2	C355,C351	0.027uF	110-00088-01	CAP,0.027uF,50V,5%,X7R,0805	NIC	NMC0805X7R253J50TRP
28	2	C354,C352	0.01UF	110-00036-01	CAP,0.01UF,50V,X7R,10%,0805	NIC	NMC0805X7R106K50TRPLP
29	2	C356,C353	1000pF	110-00012-01	CAP,1000pF,100V,X7R,0805	Panasonic	ECJ-2VB2A102K

30	1	C358	1.5PF	110-00086-01	CAP,1.5pF,HIQ,250V,0.5PF,0603	ATC	ATC600S1R5DT250T
31	1	C359	0.3pF	110-00089-01	CAP,0.3PF,HIQ,250V,0.1pF,0603	ATC	ATC600S0R3BT250T
32	3	C360,C361,C362	100pF	110-00087-01	CAP,100pF,HIQ,10%,250V,0603	ATC	ATC600S101KT250T
33	2	C400,C403	0.033uF	110-00048-01	CAP,0.033uF,50V,5%,X7R,0805	NIC	NMC0805X7R336J50TRP
34	2	C402,C401	3300pF	110-00049-01	CAP,3300pF,50V,X7R,0805	NIC	NMC0805X7R332K50TRP
35	4	C487,C724,C728,C786	330pF	110-00030-01	CAP,330pF,50V,NPO,5%,0603	NIC	NMC0603NPO331J50TRP
36	4	C733,C736,C848,C849	270pF	110-00077-01	CAP,270pF,50V,NPO,5%,0603	NIC	NMC0603NPO271J50TRP
37	2	C735,C852	1500pF	110-00017-01	CAP,1500pF,50V,X7R,0805	Panasonic	ECJ-2VB1H152K
38	2	C737,C850	560 pF	110-00018-01	CAP,560pF,50V,X7R,0603	Panasonic	ECJ-1VB1H560
39	2	C839,C836	DNI	110-00010-01	CAP,1uF,25V,X7R,1206	Panasonic	ECJ-3YB1E105K
40	2	C838,C837	DNI	110-00011-01	CAP,22uF,25V,<ESR TANT,EIA "D"	AVX	TPSD226M025R0200
41	1	C840	DNI	110-00042-01	CAP,220pF,50V,NPO,5%,0603	NIC	NMC0603NPO221J50TRP
42	2	D5,D4	Green	120-00001-01	LED,GREEN,1206	Chicago Miniture Lamp	CMD15-21VGC/TR8
43	2	D7,D6	BBY51	120-00013-01	DIODE,VARACTOR,BBY51	Siemens	BBY51
44	1	D8	DNI	120-00014-01	DIODE,SCHOTTKY,B140,SMA	Diodes, Inc	B140-13
45	2	J2,J1	SMA END LAUNC	310-00035-01	CONN,SMA,END,0.062"	AMP	449692
46	1	J3	30X2 2MM	310-00018-01	CONN,30X2,2MM,PINS	Sullins	PRPN302PAEN
47	2	L3,L129	10nH	140-00023-01	IND,10NH,5%,0603	MURATA	LQG11A10NJ00
48	3	L4,L31,L130	16nH HIQ	140-00030-01	IND,16nH,HIQ,5%,0805	COILCRAFT	0805HQ-16NXJBC
49	3	L5,L9,L12	820nH HIQ	140-00054-01	IND,820nH,HIQ,5%,0805	COILCRAFT	0805CS-821XJBC
50	1	L6	330nH HIQ	140-00051-01	IND,330nH,HIQ,5%,0805	COILCRAFT	0805CS-331XJBC
51	1	L7	680nH HIQ	140-00053-01	IND,680nH,HIQ,5%,0805	COILCRAFT	0805CS-681XJBC
52	5	L8,L20,L26,L39,L132	2.2UH HIQ	140-00055-01	IND,2.2UH,HIQ,5%,0805	COILCRAFT	0805LS-222XJBC
53	1	L10	220nH HIQ	140-00049-01	IND,220nH,HIQ,5%,0805	COILCRAFT	0805CS-221XJBC
54	3	L11,L28,L148	270nH HIQ	140-00050-01	IND,270nH,HIQ,5%,0805	COILCRAFT	0805CS-271XJBC
55	1	L13	390nH HIQ	140-00052-01	IND,390nH,HIQ,5%,0805	COILCRAFT	0805CS-391XJBC
56	8	L14,L86,L87,L100,L101, L109,L113,L115	5.6nH HIQ	140-00027-01	IND,5.6nH,HIQ,5%,0805	COILCRAFT	0805HQ-5N6XJBC
57	1	L15	15uH HIQ	140-00058-01	IND,15uH,HIQ,5%,0805	COILCRAFT	0805LS-153XJBC
58	2	L16,L17	560nH HIQ	140-00056-01	IND,560nH,HIQ,5%,0805	COILCRAFT	0805CS-561XJBC
59	1	L18	3.9UH HIQ	140-00059-01	IND,3.9uH,HIQ,5%,0805	COILCRAFT	0805LS-392XJBC
60	5	L19,L25,L36,L142,L145	1000nH HIQ	140-00057-01	IND,1000nH,HIQ,5%,0805	COILCRAFT	0805LS-102XJBC
61	6	L21,L135,L136,L137,L138, L139	39nH HIQ	140-00028-01	IND,39nH,HIQ,5%,0805	COILCRAFT	0805HQ-39NXJBC
62	12	L22,L23,L27,L60,L61,L117, L118,L123,L124,L131,L147, L149	180nH HIQ	140-00048-01	IND,180nH,HIQ,5%,0805	COILCRAFT	0805HS-181TJBC

63	6	L24,L42,L43,L107,L111, L116	10UH	140-00022-01	IND,10UH,POWER,PM54	JW Miller	PM54-100M
64	2	L34,L29	470nH	140-00009-01	IND,470NH,0805	MURATA	LQM21NNR47K10
65	2	L30,L146	240nH HIQ	140-00060-01	IND,240nH,HIQ,5%,0805	COILCRAFT	0805CS-241XJBC
66	2	L143,L32	2.7UH HIQ	140-00061-01	IND,2.7UH,HIQ,5%,0805	COILCRAFT	0805LS-272XJBC
67	2	L144,L33	470nH HIQ	140-00062-01	IND,470nH,HIQ,5%,0805	COILCRAFT	0805CS-471XJBC
68	1	L35	30nH HIQ	140-00029-01	IND,30nH,HIQ,5%,0805	COILCRAFT	0805HQ-30NXJBC
69	1	L41	CTX8-4	140-00001-01	IND,8UH,3.5A,TOROID,SMT	Cooper Electronics	CTX8-4
70	14	L46,L47,L64,L65,L119, L120,L121,L122,L125,L126, L127,L128,L133,L134	48nH HIQ	140-00047-01	IND,48nH,HIQ,5%,0805	COILCRAFT	0805HQ-48NXJBC
71	2	L68,R261	0 ohm	100-00068-01	RES,0 OHM,1/8W,0805	NIC	NRC10ZOTR
72	2	L106,L110	27NH 3.5A	140-00036-01	IND,27nH,AIRCORE,3.5A,SMT	COILCRAFT	1812SMS-27NG
73	2	L140,L141	DNI	140-00022-01	IND,10UH,POWER,PM54	JW Miller	PM54-100M
74	63	M1,M2,M3,M6,M7,M8,M9,M10, M11,M12,M13,M14,M15,M16, M17,M18,M19,M20,M21,M22, M24,M25,M27,M28,M29,M30, M31,M32,M33,M34,M41,M42, M43,M44,M45,M53,M54,M55, M56,M57,M66,M67,M68,M71, M72,M74,M75,M76,M77,M80, M81,M83,M88,M89,M90,M91, M92,M93,M94,M95,M96,M97 M52	IND,FERRITE BEAD	140-00004-01	IND,FERRITE BEAD,0603	Murata	BLM11A121S
75	4	M70,M73,M79,M82	DNI	140-00004-01	IND,FERRITE BEAD,0603	Murata	BLM11A121S
76	1	OSC1	25.00MHZ	180-00012-01	TCXO,25.00MHZ,2.5PPM,SMT	SUNTSU	STB348-25.000MHz
77	1	Q1	3A 30V	130-00008-01	XSTR,N-CHAN,DUAL,SO8	ON SEMI	MMDF3N03HD
78	2	Q3,Q2	BFR505	130-00007-01	XSTR,NPN,BFR505,SOT23	Philips	BFR505
79	1	Q5	MMBT3904	130-00011-01	XSTR,NPN,MMBT3904,SOT23	FAIRCHILD	MMBT3904
80	10	R1,R2,R541,R542,R543, R544,R549,R563,R304,R305	40.2	100-00099-01	RES,40.2 OHM,1/4W,1%,1206	NIC	NRC12F40R2TR
81	3	R3,R6,R343	51	100-00094-01	RES,51 OHM,1/16W,0.5%,0402	SUSUMU	RR0510P-510D
82	2	R7,R4	1 OHM	100-00072-01	RES,1 OHM,1/10W,1%,0805	NIC	NRC10F1R00TR
83	6	R5,R25,R29,R30,R315,R316	1.5K	100-00054-01	RES,1.5K,1/10W,1%,0603	NIC	NRC06F1501TR
84	60	R8,R23,R178,R179,R267, R323,R324,R326,R377,R380,	10	100-00042-01	RES,10 OHM,1/10W,1%,0603	NIC	NRC06F10R0TR

		R398,R399,R404,R407,R408,					
		R410,R414,R415,R418,R420,					
		R421,R422,R434,R437,R438,					
		R440,R444,R445,R448,R450,					
		R451,R452,R460,R461,R462,					
		R463,R464,R465,R466,R467,					
		R468,R469,R470,R471,R472,					
		R475,R484,R488,R494,R495,					
		R496,R497,R506,R507,R545,					
		R551,R552,R557,R560,R576					
85	6	R9,R15,R18,R19,R20,R24	18	100-00086-01	RES,18 OHM,1/10W,1%,0603	NIC	NRC06F18R0TR
86	8	R10,R291,R292,R294,R298,	3.16K	100-00064-01	RES,3.16K,1/10W,1%,0603	NIC	NRC06F3161TR
		R299,R409,R439					
87	2	R567,R11	DNI	100-00080-01	RES,100 OHM,1/16W,0.5%,0402	SUSUMU	RR0510P-101D
88	41	R12,R26,R28,R31,R32,R40,	1K	100-00040-01	RES,1K,1/10W,1%,0603	NIC	NRC06F1001TR
		R41,R50,R54,R56,R62,R63,					
		R66,R67,R82,R84,R93,R94,					
		R95,R96,R101,R105,R106,					
		R121,R126,R127,R167,R174,					
		R175,R181,R187,R188,R251,					
		R252,R333,R335,R336,R344,					
		R346,R21,R22					
89	2	R345,R13	DNI	100-00040-01	RES,1K,1/10W,1%,0603	NIC	NRC06F1001TR
90	3	R14,R44,R564	DNI	100-00010-01	RES,10K,1/10W,1%,0603	NIC	NRC06F1002TR
91	1	R16	DNI	100-00093-01	RES,29.4K,1/10W,1%,0603	NIC	NRC06F2942TR
92	5	R17,R132,R153,R243,R264	100	100-00005-01	RES,100 OHM,1/10W,1%,0603	NIC	NRC06F1000TR
93	4	R133,R166,R253,	15	100-00006-01	RES,15 OHM,1/10W,1%,0603	NIC	NRC06F15R0TR
		R254					
94	6	R27,R293,R295,R300,R301,	2.00K	100-00033-01	RES,2.00K,1/10W,1%,0603	NIC	NRC06F2001TR
		R303					
95	6	R36,R38,R45,R46,ATT1,ATT5	0.15 OHM 0402	100-00100-01	RES,0.15 OHM,1/8W,1%,0402	SUSUMU	RL0510S-R15-F
96	3	R37,R411,R441	100 OHM 0402	100-00080-01	RES,100 OHM,1/16W,0.5%,0402	SUSUMU	RR0510P-101D
97	24	R39,R49,R130,R140,R141,	10K	100-00010-01	RES,10K,1/10W,1%,0603	NIC	NRC06F1002TR
		R191,R192,R230,R231,R232,					
		R233,R236,R237,R239,R256,					
		R258,R260,R394,R395,R396,					
		R424,R425,R426,R483					

98	2	R42,R537	0 ohm	100-00009-01	RES,0 OHM,1/10W,0603	NIC	NRC06ZOTR
99	1	R43	51.1	100-00021-01	RES,51.1 OHM,1/8W,1%,0805	NIC	NRC10F51R1TR
100	18	R57,R58,R60,R61,R85,R86, R88,R89,R102,R103,R122, R123,R169,R170,R182,R183, R184,R186	511	100-00053-01	RES,511 OHM,1/10W,1%,0603	NIC	NRC06F5110TR
101	1	R131	DNI	100-00021-01	RES,51.1 OHM,1/8W,1%,0805	NIC	NRC10F51R1TR
102	1	R165	30	100-00001-01	RES,30 OHM,1/10W,1%,0603	NIC	NRC06F30R1TR
103	4	R173,R180,R405,R435	4.7K	100-00003-01	RES,4.7K,1/10W,1%,0603	NIC	NRC06F4701TR
104	2	R189,R190	23.2K	100-00019-01	RES,23.2K,1/8W,1%,0805	NIC	NRC10F2322TR
105	2	R234,R255	30.9K	100-00075-01	RES,30.9K,1/10W,1%,0603	NIC	NRC06F3092TR
106	2	R235,R257	75	100-00032-01	RES,75 OHM,1/10W,5%,0603	NIC	NRC06F75R0TR
107	2	R238,R259	249	100-00038-01	RES,249 OHM,1/8W,1%,0805	NIC	NRC10F2490TR
108	2	R262,R241	8.2K	100-00039-01	RES,8.2K,1/10W,1%,0603	NIC	NRC06F8201TR
109	34	R270,R271,R327,R328,R378, R379,R382,R383,R479,R480, R490,R491,R498,R499,R500, R501,R502,R503,R504,R505, R508,R509,R510,R511,R547, R548,R553,R554,R555,R556, R558,R559,R561,R562	475	100-00043-01	RES,475 OHM,1/10W,1%,0603	NIC	NRC06F4750TR
110	2	R338,R325	100	100-00073-01	RES,100 OHM,1/4W,1%,1206	NIC	NRC12F1000TR
112	5	R339,R387,R416,R446,R532	30.1	100-00048-01	RES,30.1 OHM,1/4W,1%,1206	NIC	NRC12F30R1TR
113	1	R349	56.2	100-00081-01	RES,56.2 OHM,1/10W,1%,0603	NIC	NRC06F56R2TR
114	3	R370,R371,R372	18	100-00017-01	RES,18 OHM,1/10W,1%,0805	NIC	NRC10F18R0
115	8	R388,R533,R546,R550,R565, R566,R568,R569	46.4	100-00041-01	RES,46.4 OHM,1/4W,1%,1206	NIC	NRC12F46R4TR
116	2	R393,R423	100K	100-00050-01	RES,100K,1/10W,1%,0603	NIC	NRC06F1003TR
117	4	R401,R402,R431,R432	DNI	100-00042-01	RES,10 OHM,1/10W,1%,0603	NIC	NRC06F10R0TR
118	2	R540,R536	150	100-00084-01	RES,150 OHM,1/10W,1%,0603	NIC	NRC06F1500TR
119	1	SW1	SWITCH,PUSHBU	150-00003-01	SWITCH,PUSHBUTTON,SMT	Panasonic	EVQ-PPBA25
120	1	T1	ADT1-1WT	140-00026-01	XFMR,0.4-800MHz,ADT1-1WT	MINI-CIRCUITS	ADT1-1WT
121	2	T3,T2	DNI	140-00063-01	XFMR,0.3-3GHz,1:1,ETC1-1-13	MACOM	ETC1-1-13
122	2	U1,U8	MASWSS0028		IC,RF SW,DC-3GHz,SP3T	MACOM	MASWSS0028
123	5	U2,U3,U4,U5,U7	OPA2343	200-00053-01	IC,OP-AMP,OPA2343,SO8	TEXAS INSTRUMENTS	OPA2343UA
124	2	U9,U6	HMC488MS8G	200-00057-01	IC,MIXER,4-7GHz,INT AMP,MS8GEP	Hittite	HMC488MSG8

125	10	U10,U106,U107,U109,U110, U111,U114,U115,U119,U120	HMC313	200-00069-01	IC,AMPLIFIER,HMC313	HITTITE	HMC313
126	1	U11	MGA-85563	200-00047-01	IC,LNA,MGA-85563,SOT-363	HP	MGA-85563
127	4	U12,U16,U18,U35	HMC346MS8G	200-00048-01	IC,VARIABLE ATTEN,HMC346MS8G	Hittite	HMC346MS8G
128	1	U14	LM20BIM7	200-00060-01	IC,TEMP SENSOR,LM20,SC70-5	National	LM20BIM7
129	3	U20,U23,U112	ERA-3SM	200-00022-01	IC,AMPLIFIER,ERA-3SM	Mini-Circuits	ERA-3SM
130	1	U22	EL2141CS	200-00026-01	IC,DIFF. DRIVER,EL2141CS,SO8	Elantec	EL2141CS
131	5	U24,U25,U26,U27,U39	TLV5625	200-00038-01	IC,DUAL DAC,TLV5625,SO8	Texas Instruments	TLV5625ID
132	2	U28,U57	ADE-1	200-00025-01	IC,MIXER,ADE-1,CD636	Mini-Circuits	ADE-1
133	1	U31	EL2142CS	200-00035-01	IC,DIFF. RECEIVER,EL2142CS,SO8	Elantec	EL2142CS
134	1	U34	LT1963EQ	200-00051-01	IC,LDO,1.5A,ADJ,SHDN,DDPAK	Linear	LT1963EQ
135	1	U37	MAAPSM0008	200-00045-01	IC,AMPLIFIER,MAAPSM0008	M/A-COM	MAAPSM0008
136	1	U38	HMC406MS8G	200-00046-01	IC,AMPLIFIER,HMC406MS8G	Hittite	HMC406MS8G
137	1	U40	ATmega8L-8Ai	200-00044-01	IC,AVR,ATMEGA8L-8Ai,TQFP-32	Atmel	ATmega8L-8Ai
138	5	U41,U51,U54,U92,U98	LT1761	200-00040-01	IC,LDO,ADJ,100mA,SOT23-5	Linear	LT1761ES5-BYP
139	1	U42	LT1964	200-00042-01	IC,NEG LDO,ADJ,200mA,SOT23-5	Linear	LT1964ES5-BYP
140	1	U43	LTC5508	200-00058-01	IC,0.3-7GHz RF DETECTOR,SC70-6	LINEAR	LTC5508ESC6
141	2	U44,U45	MAX4053AESE	200-00075-01	IC,ANAOLG SW.,MAX4053,SOP 16	MAXIM	MAX4053AESE
142	1	U52	LMX1601TM	200-00037-01	IC,DUAL PLL,LMX1601TM,TSSOP16	National	LMX1601TM
143	2	U56,U108	374MHz SAW	200-00043-01	IC,SAW FILTER,374MHz,855898	SAWTEK	855898
144	1	U58	LTC5507	200-00076-01	IC,RF POWER DETECTOR,LT5507	LINEAR	LTC5507ES6
145	5	U59,U61,U93,U99,U102	NBB-400	200-00049-01	IC,AMPLIFIER,NBB-400	RF NITRO	NBB-400
146	1	U68	ERA-3SM	200-00050-01	IC,AMPLIFIER,MAR-1SM	Mini-Circuits	MAR-1SM
147	3	U89,U95,U118	MC7805BDT	200-00016-01	IC,REGULATOR,MC7805,DPAK	ON SEMI	MC7805BDT
148	2	U91,U97	CX72302	200-00056-01	IC,DUAL PLL,CX7302,TSSOP28EP	SKYWORKS	CX72302
149	1	U105	DNI	200-00062-01	IC,LT1931,+5/-5,SOT23-5	Linear Technology	LT1931
150	2	U117,U113	480MHz SAW	200-00068-01	IC,SAW FILTER,480MHz,9MHz BW	SAWTEK	855271
151	1	U116	4900-5091MHz Dir	200-00073-01	IC,DIR COUPLER,4900-5091MHz	NTKtech	LCG499D-0081B
152	2	U122,U121	4900-5250MHz	200-00074-01	IC,FILTER,4900-5250MHz,MFE5075BB	NTKtech	MFE5075BBA21
153	2	VCO2,VCO1	4460-4615MHz	180-00016-01	VCO,SAFETLINK,4460-4615MHz,DOUB	Universal Microwave	UMZ-T2-1045-O16
154	1	Z1	SMAZ5V1	120-00017-01	DIODE,ZENER,5.1V,SMAZ5V1,SMA	Diodes Inc.	SMAZ5V1