

ITEM	QTY	PART NUMBER	DESCRIPTION	REF DES
REF	0	210000292	ASSY, PCB, 2998 CLASSIC PERSONALITY BRD	
REF	0	610000292	A/W, PCB, 2998 CLASSIC PERSONALITY BRD	
REF	0	710000292	SCHEM, PCB, 2998 CLASSIC PERSONALITY BRD	
REF	0	810000292	PERF SPEC, PCB, 2998 CLASSIC PERSONALITY BRD	
1	1	510000292	PCB, 2998 CLASSIC PERSONALITY BRD	
2	58	290660	SMD CAP .1MF 20% 50V CERAMIC Z5U 0805	C1 C5 C6 C55 C58 C70 C74 C76 C80 C81 C98 C99 C105 C106 C111 C113 C122 C123 C201 C213 C214 C228 C229 C230 C231 C232 C238 C243 C244 C245 C246 C276 C292 C298 C300 C301 C305 C317 C357 C405 C426 C435 C460 C481 C488 C496 C507 C508 C511 C513 C520 C521 C523 C525 C527 C528 C543 C544
3	5	321000137	CAP CERAMIC 560PF 50V 10% X7R 0805 SMD	C100 C101 C468 C471 C474
4	2	011470	CAP, 100MF 20% 63V	C103 C104
5	1	056416	CAP, ALUM ELECT, 47MF, 63V, 20%	C107
6	4	056322	SMD CAP .22MF 20% 50V CERAMIC Z5U 1210	C108 C109 C110 C486
7	7	321000159	CAP ALM-LYT 100UF 35V 20% .250LS RADIAL	C12 C67 C71 C72 C82 C89 C120
8	5	321000110	CAP 10000PF 50V 5% COG SMD 1210	C13 C19 C466 C469 C472
9	7	321000109	CAP 3300PF 100V 5% COG SMD 1206	C15 C26 C92 C94 C452 C455 C458
10	7	321000111	CAP 1.0 MF 50V 10% X7R SMD 1812	C16 C17 C27 C28 C29 C30 C53

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11	50	056331	SMD CAP 10.0MF 20% 35V S-TANTALUM 7343	C2 C9 C10 C18 C20 C34 C35 C37 C38 C39 C40 C41 C47 C48 C52 C54 C56 C59 C62 C65 C66 C68 C73 C75 C77 C78 C79 C83 C84 C86 C87 C88 C97 C102 C112 C114 C115 C116 C117 C121 C271 C285 C304 C306 C307 C406 C425 C485 C532 C533
12	2	321000133	CAP, CERAMIC 0.22 UF 50V 10% X7R SMD 1210	C21 C22
13	2	321000249	CAPACITOR CERAMIC 0.47uF 10% 50V X7R 1210	C23 C24
14	2	321000119	CAP, SMD CERAMIC 15PF 5% 50V	C233 C241

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15	274	321000135	SMD CAP .1MF 20% 16V CERAMIC 0603	C3 C4 C14 C25 C31 C32 C33 C36 C42 C43 C44 C45 C46 C49 C50 C51 C57 C60 C61 C63 C64 C69 C85 C91 C93 C95 C200 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C215 C216 C217 C218 C219 C220 C221 C222 C223 C224 C225 C226 C227 C234 C235 C236 C237 C239 C240 C242 C248 C249 C250 C251 C252 C253 C254 C255 C257 C258 C260 C261 C262 C263 C265 C266 C267 C268 C274 C277 C278 C279 C280 C281 C282 C283 C284 C286 C287 C288 C289 C290 C291 C293 C294 C295 C296 C297 C299 C308 C309 C310 C311 C312 C313 C314 C316 C318 C319 C320 C321 C322 C323 C324 C325 C326 C327 C328 C329 C330 C331 C332 C333 C334 C335 C336 C337 C338 C339 C340 C341 C342 C343 C344 C345

Waters	34 Maple St. Milford, MA 01757	SIZE	DWG NO	REV
		A	210000292	F
			MICROSOFT EXCEL	SHEET 3 OF 9

ITEM	QTY	PART NUMBER	DESCRIPTION	REF DES
				C346 C347 C348 C349 C351 C352 C353 C354 C355 C356 C358 C359 C360 C361 C362 C363 C365 C366 C367 C368 C369 C370 C371 C372 C373 C374 C375 C376 C377 C378 C379 C380 C381 C382 C383 C384 C385 C386 C387 C388 C389 C390 C391 C392 C393 C394 C395 C396 C397 C398 C399 C400 C401 C402 C403 C404 C407 C408 C409 C410 C411 C412 C413 C414 C417 C418 C420 C422 C423 C428 C429 C431 C434 C436 C437 C438 C439 C440 C441 C442 C443 C445 C447 C448 C450 C453 C456 C459 C462 C463 C464 C467 C470 C473 C476 C477 C478 C479 C480 C482 C483 C484 C487 C489 C490 C491 C492 C493 C494 C495 C497 C498 C499 C501 C502 C503 C504 C505 C506 C509 C510 C512 C514 C517 C518 C519 C522 C524 C526 C529 C530 C531 C534 C535 C536 C537 C538 C539 C540 C541 C542
16	3	321000138	CAP CERAMIC 100MF 6.3V 15% X5R 3225 SMD	C451 C454 C457
17	1	056358	SMD CAP 470PF 10% 50V CERAMIC NPO 0805	C465
18	21	321000251	CAP CERAMIC 10uF 10V 20% X5R 0805	C7 C118 C119 C247 C302 C303 C315 C350 C364 C415 C416 C419 C421 C424 C427 C432 C433 C444 C446 C449 C500
19	4	321000142	CAP, TANTALUM 6.8UF 50V 20% SMD CASE D	C96 C475 C515 C516

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20	10	056342	SMD DIODE 914 HIGH SPEED SWITCHING VBR=100V VF=1.0V .25W TRR=4NS	CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR10
21	3	325000116	DIODE, ESD PROTECT 7.5V ZENER TSOC SMD	CR11 CR12 CR18
22	2	325000101	SMD DIODE ZENER 5229B 4.3V SOT- 23	CR13 CR14
23	5	290343	DIODE, DUAL SCHOTTKY BAT54SW SMD SOT323	CR15 CR16 CR17 CR19 CR203
24	6	056488	SMD RECTIFIER GENERAL PURPOSE VR=200V FI=1A VF=1.1	CR20 CR21 CR22 CR200 CR201 CR202
25	1	103158	TRANSDUCER, SONIC 6VDC	DS1
26	4	290422	FUSE, SMD 2A 125V W/HOLDER	F1 F2 F3 F4
27	1	327000106	FILTER EMI .01MF 50V 2A 15-120MHZ SMD	FL1
28	13	336000102	SMD TEST POINT, MINI .105 X .040 X .060	GND P5V VCC AGND GND1 GND2 GND3 N14V N15V P14V P15V VCC_CA DSP_RST
29	1	323000246	CONN, DOUBLE LEVEL HEADER 10 X 2 ROW MINI-COMBICON	J1
30	1	096-03	4 PIN MOLEX .12 W-O EARS	J10
31	1	323000323	CONN, HEADER 2PIN .100CTR GOLD FRICTION LOCK	J13
32	1	041-05	CONN, 12 PIN HDR, DUAL ROW, STR	J14
33	1	096-06	7 PIN HEADER, SINGLE ROW	J15
34	1	323000442	CONN HEADER 50-POS 2mm SHROUD D-ROW SMD	J16
35	1	323000324	CONN, HEADER 3PIN .100CTR GOLD FRICTION LOCK	J17
36	1	323000514	CONN HEADER 4 POS 2.5MM VERT SHROUDED	J21
37	1	323000196	CONN, 180 PIN .8MM VERTICAL RECEPTABLE	J3
38	1	290408	CONN HEADER UNSHROUDED 16 POSITION	J4
39	1	323000240	CONN, 8P MULTI-GRID UNSHROUDED HEADER SMD	J8
40	1	323000425	CONN, HOUSING SPOX 4 CKT 2.5MM PITCH	J9
41	2	343000103	RELAY REED SPST 5V DIP	K1 K2
42	3	356000109	INDUCTOR, 2.7uH, 1.8 A 39mOHM	L1 L2 L3

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43	26	347000118	SUPPRESSOR FERITE 600 OHMS @ 100MHz 1A 0603	L200 L201 L202 L203 L204 L205 L206 L207 L208 L209 L210 L211 L212 L213 L214 L215 L216 FL200 FL201 FL202 FL203 FL204 FL205 FL206 FL207 FL208
44	2	056340	SMD TRANSISTOR 2N3904 SOT-23	Q1 Q2
45	14	344000117	RES, SMD 5.62K 1/10W 1% 0805	R1 R5 R9 R12 R58 R69 R73 R200 R202 R208 R212 R286 R298 R365
46	9	344000271	RES, SMD 10 1/8W 1% 1206	R111 R165 R167 R215 R225 R406 R407 R409 R413
47	6	106-67	RES, SMD 150K 1/8W 1% 1206	R113 R119 R347 R376 R403 R410
48	4	106-42	RES, SMD 402K 1/8W 1% 1206	R114 R123 R404 R411
49	6	106-33	RES, SMD 40.2K 1/8W 1% 1206	R115 R116 R120 R141 R368 R401
50	25	344000226	RESIST 71.5K OHM 1% 1/10W THICK FILM 0603	R128 R129 R130 R132 R133 R134 R135 R136 R137 R138 R139 R152 R153 R154 R155 R156 R157 R158 R159 R160 R161 R162 R163 R387 R388
51	6	344000211	RESISTOR 28.7K OHM 1% 1/8W THICK FILM 0805 SMD	R142 R299 R343 R349 R367 R395
52	2	056479	RESTR, SMD 0.499 1W 1%	R149 R150
53	37	344000116	RES, SMD 1K 1/10W 1% 0805	R15 R17 R52 R53 R54 R57 R64 R67 R68 R76 R77 R81 R82 R86 R96 R99 R103 R104 R105 R107 R108 R164 R218 R240 R262 R283 R284 R295 R296 R297 R300 R304 R309 R332 R336 R338 R346
54	16	344000304	RESISTOR 0 OHM 1AMP 1/16W 0603	R16 R147 R148 R206 R230 R231 R232 R233 R242 R243 R244 R293 R294 R380 R397 R398
55	2	078017	RESTR, 22 5% 3W WW	R166 R168
56	12	344000119	RES, SMD 100K 1/10W 1% 0805	R2 R6 R74 R112 R121 R122 R125 R126 R209 R213 R382 R394
57	4	056309	RES, SMD 4.7K 1/4W 5%	R204 R205 R207 R211

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58	8	106-86	RES, SMD 64.9K 1/8W 1% 1206	R219 R221 R226 R227 R234 R235 R246 R248
59	8	290586	RES, SMD 226K OHM 1/8W 1%	R220 R222 R223 R224 R236 R237 R245 R247
60	124	344000218	RESIST 10K OHM 1% 1/10W THICK FILM 0603	R3 R4 R7 R8 R10 R11 R13 R14 R18 R19 R20 R22 R27 R29 R32 R33 R35 R39 R40 R42 R43 R44 R45 R46 R47 R55 R56 R62 R70 R71 R72 R75 R78 R80 R85 R87 R92 R95 R98 R100 R102 R124 R127 R144 R146 R201 R203 R210 R214 R216 R217 R250 R256 R257 R258 R259 R267 R268 R269 R270 R273 R274 R275 R276 R277 R278 R279 R280 R281 R285 R287 R288 R289 R301 R302 R303 R305 R306 R307 R308 R310 R311 R312 R313 R314 R315 R316 R317 R318 R320 R321 R322 R324 R327 R328 R329 R330 R331 R333 R337 R339 R344 R348 R351 R353 R355 R360 R361 R372 R378 R379 R381 R383 R384 R385 R389 R391 R392 R393 R399 R400 R402 R408 R412
61	1	344000408	RES, SMD 150 OHM 1/4W 1% 1206	R319
62	3	290472	RES, SMD 1.62K OHM 1/8W 1% TF 1206	R362 R364 R366
63	1	344000212	RESISTOR 3.74K OHM 1% 1/8W THICK FILM 0805 SMD	R363
64	1	344000209	RESIST 7.68K OHM 0.1% 1/10W THIN FILM 0805	R396
65	17	344000214	RESISTOR 33 OHM 1% 1/10W THIN FILM 0603	R48 R49 R50 R51 R60 R61 R63 R65 R83 R84 R88 R89 R90 R94 R101 R371 R377
66	7	344000213	RESISTOR 107 OHM 1% 1/8W THICK FILM 0805	R79 R117 R334 R352 R354 R356 R386
67	6	344000136	RES, SMD 221 1/8W 1% THICK FILM 1206	R93 R106 R109 R335 R341 R342

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68	1	344000127	RES NET PRECISION 100K 4 RES ISOLATED 0.1% SO-8 SMD	RN1
69	1	344000113	RES. NETWORK 10K 4R ISOLATED THIN FILM SMD 8P SOIC	RN2
70	4	344000215	RES NETWORK 33 OHM 5% 8 RES ISOL CER SMD	RN3 RN4 RN5 RN6
71	1	056377	SWITCH, SPST MOM PB	SW1
72	2	056308	SOIC LM393 DUAL COMPARATOR 8- PIN	U1 U2
73	4	332000336	8-BIT XCVR 5V/3V CONFIG INTF TSSOP-24	U12 U26 U27 U28
74	5	332000279	IC, 74AHCT541 OCTAL BUFFER 3STATE TSSOP-20	U13 U14 U15 U18 U19
75	2	332000212	IC, 74HCT14 HEX SCHMITT TRIGGER INVERTER 14P SOIC	U24 U46
76	1	332000607	IC 1MX16 SRAM 2.4V-3.6V 10NS TSOP48	U29
77	2	332000237	IC, DUAL RAIL-RAIL OP AMP, LT1368CS8	U3 U30
78	1	290340	IC, 5V REFERENCE SMD 8 PIN SOIC	U31
79	1	332000586	IC, PLD EP1K30 2.5V 30K GATES TYP 208 PIN PQFP	U32
80	1	332000290	IC DSP TMS320C6713 200 MHz PQFP- G208	U33
81	1	332000288	IC DUAL OP AMP OPA2364 R/R 1.8-5V SOIC-8	U34
82	1	332000265	IC ADS1241 24-BIT 8-CH A/D CONVERTER 2.7-5.5V SSOP-28	U35
83	1	332000293	IC, MEM SDRAM 4M X 16 166MHZ 3.3V TSOP-54	U36
84	1	332000296	SOIC, 74AHC08 QUAD 2-INPUT POSITIVE-AND GATE	U37
85	6	332000294	IC 74AHC1G14 SINGLE SCHMITT INVERT SC70-5	U4 U5 U11 U39 U40 U200
86	1	332000284	IC, SERIAL-TO-1 WIRE INTERFACE, SOIC-8	U41
87	3	332000325	IC DC-DC PWP CONV 3-6VIN 3.3V 1.5A OUT TSSOP-20 PWP	U42 U43 U44
88	2	290347	IC, LOW POWER REGULATOR SMD 8 PIN SOIC	U47 U57
89	5	332000342	IC QUAD DIG ISOLATOR 3-5V 2500V SOIC-16W	U48 U49 U50 U51 U52
90	1	332000241	IC, H-BRIDGE STEPPER DRIVER 35V 2.5A LOGIC SMD TSSOP 28	U53
91	1	290346	IC, LOW POWER NEG REGULATOR SMD 8 PIN SOIC	U54
92	2	332000197	IC, DAC1220 20 BIT LOW DRIVER SMD 16P SSOP	U6 U8

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93	3	332000278	IC, 74AHCT573 OCTAL LATCH 3STATE TSSOP-20	U7 U16 U17
94	3	290263	IC, QUAD CMOS SW HI-201 SMD	U9 U10 U25
95	12	347000121	VARISTOR 42V 0.01J VK=135V 0603	V200 V201 V202 V203 V204 V205 V206 V207 V208 V209 V210 V211
96	1	290261	IC, 2.5V REFERENCE 8 PIN SOIC SMD	VR1
97	1	342000106	REGULATOR, 3.3V 1A 3% TO-263 SMD	VR2
98	1	324000102	CRYSTAL, 2.048 MHZ 12PF HC49	Y1
99	1	338000126	OSCILLATOR 36.000 MHZ +/-0.01% 5X7 CER SMD	Y2

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