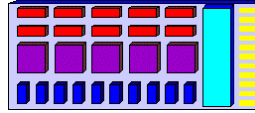


**Standard Reliability Prediction Report**

**Part Number** System  
**Reference Des**  
**Date** May 30, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

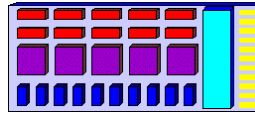


**Description** Top-level assembly  
**File Name** MZ104+V3.RPJ  
**Time** 3:12 PM  
**Failure Rate** 4.601129  
**MTBF** 217,338

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
MZ104+V3	System		1.00	4.601129	217,338

**Standard Reliability Prediction Report**

**Part Number** System  
**Reference Des**  
**Date** May 30, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

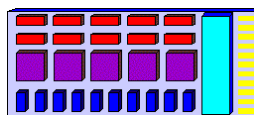


**Description** Top-level assembly  
**File Name** MZ104+V3.RPJ  
**Time** 3:12 PM  
**Failure Rate** 4.601129  
**MTBF** 217,338

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
CAP-0603-.01UF	Capacitor	C21, C87	0.010617	2.00	0.021235
CAP-0603-0.1U	Capacitor	C1,C2,C3,C4,C5,C6-,C7,C8,C9,C11,C12-,C13,C14,C15,C16-,C19,C20,C32,C41,C-42,C43,C44,C45,C4-6,C47,C52,C53,C54-,C55,C56,C57,C58-,C59,C60,C61,C62,C-63,C82,C89,C90,C9-1,C92,C95,C98,C99-,C119,C120,C121,C-124,C125,C126,C12-7,C128,C130,C131-,C132,C133,C134,C-135,C136,C137,C138	0.013062	67.00	0.875175
CAP-0603-15PF	Capacitor	C144, C145	0.005914	2.00	0.011828
CAP-0603-180PF	Capacitor	C23,24,25,26,27,28-,29,30,31,33,34,35,36-,37,38,39,40	0.007396	17.00	0.125731
CAP-0603-220PF	Capacitor	C66,67,68,69,70,71-,72,73,74,75,76,77,78-,79,80,81	0.007531	16.00	0.120492
CAP-0603-22PF	Capacitor	C48, C49, C50, C51	0.006121	4.00	0.024485
CAP-0603-47P	Capacitor	C64,65,C96, C97	0.006554	4.00	0.026216
CAP-B-10U/16V	Capacitor	C83	0.007488	1.00	0.007488
CAP-B-TANT-4U7	Capacitor	C84, C85	0.004154	2.00	0.008308
CON-COINBAT-HLDR-S-MD	Connection	CN17	0.001972	1.00	0.001972
CON-EDGE-10PIN	Connection	CN8, CN9	0.013000	2.00	0.026000
CON-EDGE-26PIN	Connection	CN5	0.033800	1.00	0.033800
CON-EDGE44-2MM	Connection	CN12	0.057200	1.00	0.057200
CON-EDGE8-2MM	Connection	CN1, CN10, CN11	0.010400	3.00	0.031200
CON-RA16-1MM	Connection	CN7	0.000002	1.00	0.000002
CON-RA26-1MM	Connection	CN6	0.000002	1.00	0.000002
CON-PC104-16	Connection	CN13	0.020400	1.00	0.020400
CON-PC104-8	Connection	CN14	0.032640	1.00	0.032640
CON-PC104PLUS	Connection	CN3	0.061200	1.00	0.061200
CON-TERM2-3.5MM	Connection	CN4	0.001020	1.00	0.001020
CON-PIN-2X7SMT	Connection	CN2	0.000005	1.00	0.000005
CON-SOC-DIP32SMT	Connection	IC23	5.209711e-007	1.00	5.209711e-007
CON-SOC-DIP8SMT	Connection	IC1	5.209711e-007	1.00	5.209711e-007
CON-SO-DIMM144	Connection	CN15	0.043766	1.00	0.043766
IC-CY2305	Integrated Circuit	U3	0.016000	1.00	0.016000
DIODE-MINI	Semiconductor	D1, D11,13,30	0.020765	4.00	0.083059
FERRITE-0603	Inductor	F6, F7, F8, F9, F12, F13, F14	0.000097	7.00	0.000676
FERRITE-0805	Inductor	F1, F2, F3, F4, F5, F10, F11, F15, F16, F17, F18	0.000097	11.00	0.001063
FET-SOT23-N	Semiconductor	Q6	0.152315	1.00	0.152315
HALO-ULTRA	Miscellaneous	T1, T2	0.138049	2.00	0.276098

**Standard Reliability Prediction Report**

**Part Number** System  
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**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

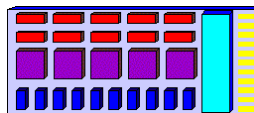


**Description** Top-level assembly  
**File Name** MZ104+V3.RPJ  
**Time** 3:12 PM  
**Failure Rate** 4.601129  
**MTBF** 217,338

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
IC-CY22392FC	Integrated Circuit	IC2	0.031000	1.00	0.031000
IC-GD82559ER	Integrated Circuit	U1, U2	0.101144	2.00	0.202287
IC-LM1117MPX-2.5	Integrated Circuit	Q3	0.003939	1.00	0.003939
IC-LM1117MPX-3.3	Integrated Circuit	Q2	0.003939	1.00	0.003939
IC-HIN213CA	Integrated Circuit	IC12,13	0.084869	2.00	0.169738
IC-ZFX86	Integrated Circuit	IC20	0.047328	1.00	0.047328
IC-MIC2025-1BMM	Integrated Circuit	IC4, 14	0.001605	2.00	0.003210
LED-RA-SMT	Semiconductor	D2, D22	0.001476	2.00	0.002953
MEM-93LC46B/ST	Integrated Circuit	IC3, IC21	0.004458	2.00	0.008915
MEM-FLASH-TSOP40	Integrated Circuit	IC19	0.004458	1.00	0.004458
OSC-25.000MHZ	Miscellaneous	XTAL3	0.057239	1.00	0.057239
OSC-32K768	Miscellaneous	XTAL1	0.012457	1.00	0.012457
PCB-MZ104+-V3	Connection	PCB1	0.068000	1.00	0.068000
RES-0603-0R0	Resistor	R56	0.003658	1.00	0.003658
RES-0603-100K	Resistor	R16, R89, R90	0.014902	3.00	0.044706
RES-0603-100R	Resistor	R18, R98	0.014902	2.00	0.029804
RES-0603-10K0	Resistor	R10,49,77,83,87	0.014902	5.00	0.074510
RES-0603-10M	Resistor	R150	0.014902	1.00	0.014902
RES-0603-15K	Resistor	R14,15,54,55	0.014902	4.00	0.059608
RES-0603-1K0	Resistor	R3,4,7,8,9,48,57,81,-86,88	0.014902	10.00	0.149021
RES-0603-1K2	Resistor	R11, 59	0.014902	2.00	0.029804
RES-0603-20K	Resistor	R1,2	0.014902	2.00	0.029804
RES-0603-22R1	Resistor	R75	0.014902	1.00	0.014902
RES-0603-2K7	Resistor	R37	0.014902	1.00	0.014902
RES-0603-330R	Resistor	R65	0.014902	1.00	0.014902
RES-0603-33R	Resistor	R6, R12, R20, R50, R61, R63, R72, R79, R100, R119	0.014902	10.00	0.149021
RES-0603-392R	Resistor	R17, 91	0.014902	2.00	0.029804
RES-0603-3K3	Resistor	R22, R92	0.014902	2.00	0.029804
RES-0603-470R	Resistor	R5, R64, R78	0.014902	3.00	0.044706
RES-0603-49R9	Resistor	R19, R73, R74, R97	0.014902	4.00	0.059608
RES-0603-4K7	Resistor	R13, R26, R27, R51, R52, R53,R58, R67, R68, R69, R70, R71,R85, R149	0.014902	14.00	0.208629
RES-0603-549R	Resistor	R46, R99	0.014902	2.00	0.029804
RES-0603-619R	Resistor	R47, R60	0.014902	2.00	0.029804
RES-0603-62K	Resistor	R38, R39, R40, R41, R42, R43,R44, R45	0.014902	8.00	0.119217
RES-0603-75R	Resistor	R25, R31, R32, R35, R93, R94,R95, R96	0.014902	8.00	0.119217
RES-0603-82R	Resistor	R76,80,82	0.014902	3.00	0.044706
RES-PAK4-10K	Resistor	R24, R30, R115, R116, R117, R118, R122, R123, R124, R125, R126, R127, R128	0.004946	13.00	0.064303
RES-PAK4-2K2	Resistor	R29, R84	0.004946	2.00	0.009893

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**Part Number** System  
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**Description** Top-level assembly  
**File Name** MZ104+V3.RPJ  
**Time** 3:12 PM  
**Failure Rate** 4.601129  
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Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
RES-PAK4-2K7	Resistor	R33, R34	0.004946	2.00	0.009893
RES-PAK4-330R	Resistor	R28,121	0.004946	2.00	0.009893
RES-PAK4-33R	Resistor	R21, R62, R101, R102, R103, R109, R110, R111, R112, R113, R114	0.004946	11.00	0.054411
RES-PAK4-470R	Resistor	R36	0.004946	1.00	0.004946
RES-PAK4-4K7	Resistor	R23,104,105,106,10- 7,108,120	0.004946	7.00	0.034625
TR-SOT23-NPN	Semiconductor	Q1	0.001289	1.00	0.001289
SHUNT1X3	Connection	CN16, CN18, JP5	0.001530	3.00	0.004590
SHUNT1X2	Connection	JP2, JP3, JP4, JP6, JP8, JP9, JP10	0.001020	7.00	0.007140
SIP6-2MM	Connection	JP1	0.380460	1.00	0.380460