

MPC-6800-A03

Reliability Prediction Report

(MTBF)

Report NO : 04E070012

07-01-2004

Issue Stamp

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

. **Model Name:** MPC-6800-A03

. **Prediction Date:** July 1, 2004

. **Prediction Site:** AAEON Q.E. Dept.

. **Predicted by :** Jessica Chou

. **Equipment:** Relx Ver.7.3 Visual Reliability Software

. **Simulation Environment:**

Temperature: 24.4 degrees C

Standard: Telcordia (Bellcore) Standard

. **Term and Definition:**

Unit : An assembly of device.

Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.

Quantity : The quantity of the selected item.

Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.

MTBF : MTBF is always specified in hours.

. **Prediction Result:**

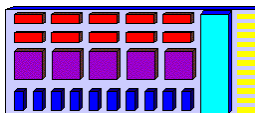
Failure Rate: 22.709528 ppm

MTBF: 44,034 Hours

IX. Prediction Table

Standard Reliability Prediction Report

Part Number MPC-6800-A03
Reference Des
Date 七月 1, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.40

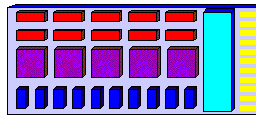


Description Top-level assembly
File Name MPC-6800-A03-400MHZ-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	MPC-6800-A03		1.00	22.709528	44,034

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Part Number MPC-6800-A03
Reference Des
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Environment GF, GU - Ground Fixed,
Temperature 24.40

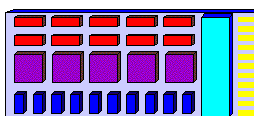


Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1654530300	Connection	CRTAUD1	0.016541	1.00	0.016541
1189682191	Capacitor	EC13,EC16	0.013980	2.00	0.027960
1653003201	Connection	JP4*2	0.082706	2.00	0.165412
1653003101	Connection	JP8	0.001654	1.00	0.001654
1654612304	Connection	KBMS1	0.003308	1.00	0.003308
121110276B	Inductor	L91	0.002040	1.00	0.002040
121110276B	Inductor	L90	0.002015	1.00	0.002015
1654543500	Connection	PCON1	0.023709	1.00	0.023709
1652522200	Connection	RJUSB1	0.012130	1.00	0.012130
1653220208	Connection	CN1	0.022055	1.00	0.022055
1653900034	Connection	CN5	0.013233	1.00	0.013233
1655004020	Connection	CN7	0.055137	1.00	0.055137
1653213220	Connection	CN10	0.014336	1.00	0.014336
1655003000	Connection	CN20,CN22	0.041353	2.00	0.082706
1653005200	Connection	CN21,CN24	0.005514	2.00	0.011027
1655417020	Connection	CN23	0.275687	1.00	0.275687
1651592490	Connection	DIMM1	2.536319	1.00	2.536319
1653003100	Connection	JP1	0.041353	1.00	0.041353
1653002101	Connection	JP10	0.001103	1.00	0.001103
1653002101	Connection	JP7,JP9	0.027569	2.00	0.055137
1654260201	Connection	PC11	1.654121	1.00	1.654121
1750119011	Miscellaneous	BT1	0.900000	1.00	0.900000
1759100008	Miscellaneous	BUZZ1	0.150000	1.00	0.150000
1653222200	Connection	CN2	0.606511	1.00	0.606511
1655305020	Connection	CN8	0.004411	1.00	0.004411
1653005100	Connection	CN11	0.068922	1.00	0.068922
1211104767	Inductor	L93	0.001966	1.00	0.001966
1211104767	Inductor	L94	0.001824	1.00	0.001824
1653209203	Connection	CN3	0.248118	1.00	0.248118
1652522201	Connection	RJUSB2	0.012130	1.00	0.012130
1124410190	Capacitor	C310,C404,C445- ,C451,C458,C465	0.001056	6.00	0.006336
1189615187	Capacitor	C162,EC15,EC8	0.004875	3.00	0.014625
1189615187	Capacitor	C55	0.007183	1.00	0.007183
1189615187	Capacitor	EC19	0.006654	1.00	0.006654
1189615187	Capacitor	C546	0.007320	1.00	0.007320
1189615187	Capacitor	C547	0.007282	1.00	0.007282
1189615187	Capacitor	C163	0.006549	1.00	0.006549
1189615187	Capacitor	C186	0.007585	1.00	0.007585
1121733380	Capacitor	C575	0.002529	1.00	0.002529
1301005443	Semiconductor	D1,D17,D21,D24,- D26,D39,D40	0.023472	7.00	0.164303
1301005443	Semiconductor	D25	0.036661	1.00	0.036661
105A507509	Resistor	R17,R39,R397,R- 398,R4,R402,R40- 4,R495,R496,R497	0.002241	10.00	0.022411
105A705609	Resistor	R188,R29,R35,R- 38,R9	0.002241	5.00	0.011206
1124427080	Capacitor	C524,C526	0.001056	2.00	0.002112
105A703903	Resistor	R11,R12	0.002241	2.00	0.004482
105A501403	Resistor	R21	0.002241	1.00	0.002241

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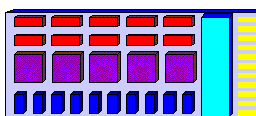


Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1310390410	Semiconductor	Q10,Q15,Q27,Q7-Q9	0.023472	5.00	0.117359
1124582280	Capacitor	C542,C553	0.001056	2.00	0.002112
1124547190	Capacitor	C258,C303,C304-C308,C309,C311-C312,C317-C319-C329	0.001056	11.00	0.011617
1124547190	Capacitor	C330,C332,C334-C336,C339,C504-C540	0.001056	7.00	0.007392
1129722091	Capacitor	C270,C291,C341-C342,C363,C364-C448	0.001056	7.00	0.007392
1653005202	Connection	CN4	0.137843	1.00	0.137843
1653005202	Connection	CN9	0.005514	1.00	0.005514
1653205201	Connection	CN12-CN15	0.137843	4.00	0.551374
1653925216	Connection	CN5	0.027569	1.00	0.027569
1653004202	Connection	CN16	0.004411	1.00	0.004411
1654262300	Connection	CN19	1.709258	1.00	1.709258
1174510380	Capacitor	CP18	0.001056	1.00	0.001056
1129710390	Capacitor	C10,C208,C25,C253,C257,C262,C282-C287,C32,C33-C333	0.001056	15.00	0.015841
1129710390	Capacitor	C338,C37-C39,C41,C42,C53,C54-C56,C57,C87,C89-C9	0.001056	13.00	0.013729
1129610051	Capacitor	C11,C12,C137-C139,C158-C161,C169,C170,C172,C175	0.002712	13.00	0.035251
1129610051	Capacitor	C193,C20,C220,-C227,C228,C234-C235,C241,C243	0.002712	9.00	0.024405
1129610051	Capacitor	C265	0.002994	1.00	0.002994
1129610051	Capacitor	C266,C268,C275-C277,C34,C340-C343,C355,C356-C372	0.002712	10.00	0.027116
1129610051	Capacitor	C384,C390,C403-C452,C457,C460-C464,C468,C469-C473	0.002712	10.00	0.027116
1129610051	Capacitor	C476,C486,C494-C545,C548-C551-C555,C572,C58-C581	0.002712	12.00	0.032540
1129610051	Capacitor	C628,C629,C639-C640,C643,C646	0.002712	6.00	0.016270
1129710090	Capacitor	C206,C207,C502-C505,C525,C527	0.001056	6.00	0.006336
1124433090	Capacitor	C224,C226,C443-C447	0.001056	4.00	0.004224

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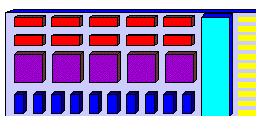


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Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701790	Capacitor	C236-C238,C244-C248,C279,C307-C365,C503,C506-C567	0.001591	14.00	0.022278
1129701790	Capacitor	C568-C570,C573-C576,C584,C632-C633,C635	0.001591	9.00	0.014322
1315035200	Semiconductor	Q5	0.000000	1.00	0.000000
1311119710	Semiconductor	Q8	0.023472	1.00	0.023472
1315993310	Semiconductor	Q14,Q43	0.156479	2.00	0.312959
1314101010	Integrated Circuit	Q16,Q6	0.056812	2.00	0.113623
1314101010	Integrated Circuit	Q19	0.210926	1.00	0.210926
1311390610	Semiconductor	Q23,Q25	0.023472	2.00	0.046944
1314108515	Integrated Circuit	Q32	0.225022	1.00	0.225022
1540710382	Resistor	RN1,RN56,RN58,-RN60	0.006077	4.00	0.024307
1540747285	Resistor	RN2,RN3,RN38,-RN4,RN40,RN42,-RN46,RN48,RN50-RN52,RN54	0.006077	11.00	0.066843
1540747285	Resistor	RN62,RN68-RN71-RN76,RN78	0.006077	7.00	0.042536
1540733085	Resistor	RN11,RN14,RN16-RN18,RN20,RN22,RN24,RN26,RN28,RN31	0.006077	10.00	0.060766
1540733085	Resistor	RN32,RN35,RN36-RN45,RN47,RN49,RN5,RN51,RN53,RN55	0.006077	10.00	0.060766
1540733085	Resistor	RN57,RN59,RN61-RN63-RN67,RN7-RN9	0.006077	10.00	0.060766
1540722085	Resistor	RN10,RN12,RN13-RN15,RN17,RN19,RN21,RN23,RN25,RN27	0.006077	10.00	0.060766
1540722085	Resistor	RN29,RN30,RN33-RN34,RN6,RN8	0.006077	6.00	0.036460
1540715381	Resistor	RN37,RN39,RN41	0.006077	3.00	0.018230
1540782280	Resistor	RN43,RN44	0.006077	2.00	0.012153
1540700080	Resistor	NL13-NL15,RN81-RN84,RN86	0.006077	8.00	0.048613
1540710080	Resistor	RN73-RN75,RN77	0.006077	4.00	0.024307
105A513003	Resistor	R33	0.002241	1.00	0.002241
105A733009	Resistor	R334,R339,R34,-R360,R481,R580	0.002241	6.00	0.013447
105A711003	Resistor	R281,R36	0.002241	2.00	0.004482
105A582503	Resistor	R37	0.002241	1.00	0.002241
105A704729	Resistor	R132,R136,R142-R144,R146,R151-R157,R158,R160-R165	0.002241	11.00	0.024653

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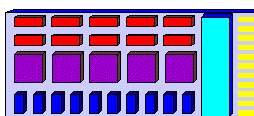


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105A704729	Resistor	R167,R173-R177- ,R180,R183,R191- ,R192,R194,R195- -R197	0.002241	14.00	0.031376
105A704729	Resistor	R199,R200,R203- ,R204,R219,R226- ,R234,R235,R249- ,R251	0.002241	10.00	0.022411
105A704729	Resistor	R252,R254-R256- ,R260,R262,R287- ,R288,R297,R298- ,R301	0.002241	11.00	0.024653
105A704729	Resistor	R302,R304,R307- ,R309,R311,R316- -R319,R323,R325- ,R382	0.002241	12.00	0.026894
105A704729	Resistor	R383-R390,R393- ,R413,R421-R423- ,R434,R435,R439- ,R440	0.002241	17.00	0.038100
105A704729	Resistor	R45,R46,R465,R- 472,R473,R478,R- 485,R486,R492,R- 50,R502	0.002241	11.00	0.024653
105A704729	Resistor	R51,R519,R52,R- 521,R58-R60,R61- 3,R614,R68-R70,- R72,R74	0.002241	14.00	0.031376
105A571563	Resistor	R67	0.002241	1.00	0.002241
105A516913	Resistor	R71	0.002241	1.00	0.002241
105A549969	Resistor	R129,R130,R343- -R346,R352-R359- ,R529	0.002241	15.00	0.033617
105A510213	Resistor	R134	0.002241	1.00	0.002241
105A708229	Resistor	R138-R141,R202- ,R215-R218,R225- ,R424,R425	0.002241	12.00	0.026894
105A511313	Resistor	R147,R154	0.002241	2.00	0.004482
105A702229	Resistor	R156,R299,R305- ,R310,R320,R322	0.002241	6.00	0.013447
105A702263	Resistor	R208	0.002241	1.00	0.002241
105A747009	Resistor	R220,R222,R227- ,R436,R437,R479	0.002241	6.00	0.013447
105A551003	Resistor	R263,R290	0.002241	2.00	0.004482
105A756033	Resistor	R267,R269,R272	0.002241	3.00	0.006723
105A701009	Resistor	R273,R274,R291- ,R381,R505-R507- ,R509,R510,R513- ,R517	0.002241	11.00	0.024653
105A701009	Resistor	R537,R539	0.002241	2.00	0.004482
105A720033	Resistor	R278	0.002241	1.00	0.002241
105A502833	Resistor	R306,R315	0.002241	2.00	0.004482
105A502033	Resistor	R185,R312,R313- ,R514,R516,R541- ,R552,R607,R608	0.002241	9.00	0.020170

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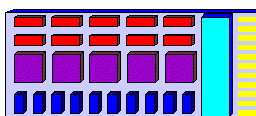


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Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A505623	Resistor	R333,R351,R550	0.002241	3.00	0.006723
105A514003	Resistor	R401	0.002241	1.00	0.002241
105A736033	Resistor	R409,R411,R415- ,R418,R420	0.002241	5.00	0.011206
105A511503	Resistor	R442,R605	0.002241	2.00	0.004482
105A500003	Resistor	L12,L17,L43,L44,- L58,L62,L64,L66,- R258,R259,R375- ,R452,R453	0.002241	13.00	0.029135
105A500003	Resistor	R498,RR542,R56- 2,R622,R623	0.002241	5.00	0.011206
1301005442	Semiconductor	D22,D23,D36	0.023472	3.00	0.070416
1315970110	Semiconductor	F1-F5	0.156479	5.00	0.782396
1653003202	Connection	JP2,JP3,JP5,JP6	0.082706	4.00	0.330824
121230805L	Inductor	L1,L15,L20,L22-L- 25,L36,L37,L53,L- 57,L65,L84,L92	0.002241	14.00	0.031376
1212306030	Inductor	L10,L11,L13,L14,- L16,L3L39,L4,L40- -L42,L5,L54-L56,- L6,L61	0.002241	17.00	0.038100
1212306030	Inductor	L38	0.001983	1.00	0.001983
1212306030	Inductor	L80,L81,L9	0.002241	3.00	0.006723
1212306033	Inductor	L45-L52	0.002241	8.00	0.017929
1212308054	Inductor	L69,L72,L75-L79	0.002241	7.00	0.015688
121230603M	Inductor	L82,L83,L85-L89,- L95	0.002241	8.00	0.017929
1215700212	Semiconductor	Q21,Q22,Q26,Q3- 7-Q40,Q44,Q45	0.023472	9.00	0.211247
1215700212	Semiconductor	Q24	0.035906	1.00	0.035906
105A701003	Resistor	R292	0.002241	1.00	0.002241
105A501823	Resistor	R327	0.002241	1.00	0.002241
105A702423	Resistor	R403	0.002241	1.00	0.002241
105A556003	Resistor	R441	0.002241	1.00	0.002241
105A510003	Resistor	R445,R447,R480- ,R524,R551,R584- ,R585	0.002241	7.00	0.015688
1301005441	Semiconductor	D18-D20,D27-35,- D41	0.023472	13.00	0.305135
1119622180	Capacitor	EC1,EC14,EC17,- EC18,EC2,EC5,E- C6	0.043805	7.00	0.306634
1304001340	Semiconductor	LED1	0.004616	1.00	0.004616
1211104760	Inductor	L2	0.002241	1.00	0.002241
1212306031	Inductor	L32,L63	0.002241	2.00	0.004482
121230805A	Inductor	L67,L68,L70,L71,- L73,L74	0.002241	6.00	0.013447
105A512033	Resistor	R463	0.002241	1.00	0.002241
105A504733	Resistor	R471,R475,R531- ,R574,R575-R577	0.002241	7.00	0.015688
105A519103	Resistor	R528	0.002241	1.00	0.002241
105A516513	Resistor	R534	0.002241	1.00	0.002241
14S4823500	Integrated Circuit	U6	0.146479	1.00	0.146479

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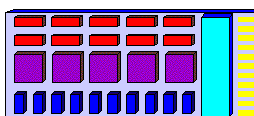


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Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1651203291	Connection	U20	0.441099	1.00	0.441099
14S3031100	Integrated Circuit	U9	0.152477	1.00	0.152477
14S1488000	Integrated Circuit	U14	0.134361	1.00	0.134361
14S6334610	Integrated Circuit	U16,U17,U48	0.029281	3.00	0.087844
14S4021310	Integrated Circuit	U28,U29,U30,U31	0.056812	4.00	0.227246
14S4021310	Integrated Circuit	U22	0.135275	1.00	0.135275
14S4021310	Integrated Circuit	U23	0.145700	1.00	0.145700
14S5A01400	Integrated Circuit	U25,U40,U41	0.056812	3.00	0.170435
14S3020100	Integrated Circuit	U37	0.056812	1.00	0.056812
14S5A00700	Integrated Circuit	U39	0.066548	1.00	0.066548
14S2652000	Integrated Circuit	U44	0.056812	1.00	0.056812
14S5A05300	Integrated Circuit	U49	0.037931	1.00	0.037931
1231325050	Miscellaneous	Y5,Y6	0.150000	2.00	0.300000
105A701039	Resistor	R1,R131,R162-R-164,R171,R314,R-326,R350,R399,R-400,R405	0.002241	12.00	0.026894
105A701039	Resistor	R406,R408,R410-,R414,R417,R419-,R457-R459,R466-,R467	0.002241	11.00	0.024653
105A701039	Resistor	R470,R482,R490-,R491,R493,R501-,R526,R532,R538-,R548	0.002241	10.00	0.022411
105A701039	Resistor	R553,R557,R558-,R602,R603,R609	0.002241	6.00	0.013447
1124405090	Capacitor	C239,C240,C579-,C580	0.001056	4.00	0.004224
1124527180	Capacitor	C292,C293,C444-,C449,C459	0.001056	5.00	0.005280
1121733780	Capacitor	C320,C322	0.002529	2.00	0.005058
1124447080	Capacitor	C512-C521,D10--D14,D3,D4,D5-D9	0.001056	22.00	0.023233
1124522880	Capacitor	C541,C552	0.001056	2.00	0.002112
1189633080	Capacitor	C250,C254,C259-,C622,C623,C624-,C625	0.004875	7.00	0.034126
1189633080	Capacitor	C22	0.007110	1.00	0.007110
105A702209	Resistor	R103,R104,R109-,R110,R117,R118-,R121,R122,R125-,R126	0.002241	10.00	0.022411
105A702209	Resistor	R149,R150,R152-,R228-R233,R236-,R250,R341,R370-,R42,R53	0.002241	27.00	0.060511
105A702209	Resistor	R55,R79,R81,R85-,R88,R94,R96	0.002241	7.00	0.015688
105A531613	Resistor	R211,R66	0.002241	2.00	0.004482
105A716003	Resistor	R73	0.002241	1.00	0.002241
105A551113	Resistor	R133	0.002241	1.00	0.002241
105A536503	Resistor	R148,R155,R198	0.002241	3.00	0.006723
105A711043	Resistor	R170,R190	0.013447	2.00	0.026894

Standard Reliability Prediction Report

Part Number MPC-6800-A03
Reference Des
Date 七月 1, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.40

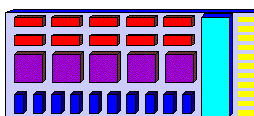


Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A530003	Resistor	R221	0.002241	1.00	0.002241
105A747033	Resistor	R266,R268,R270	0.002241	3.00	0.006723
105A710039	Resistor	R277,R279,R280- ,R282,R283,R286- ,R300,R303,R601- ,R616	0.002241	10.00	0.022411
105A710039	Resistor	R621	0.002241	1.00	0.002241
1653007204	Connection	CN6	0.192981	1.00	0.192981
1174510180	Capacitor	CP1,CP10-CP17,- CP2-CP9	0.001056	17.00	0.017953
1129701690	Capacitor	C1,C100-C129,C- 13,C130-C136,C1- 4,C140-C157,C15- ,C16,C164	0.002529	61.00	0.154273
1129701690	Capacitor	C165-C168,C17,- C171,C173,C174- ,C178-C182,C18,- C19,C192	0.002529	16.00	0.040465
1129701690	Capacitor	C194,C196-C199- ,C2,C200,C204,C- 209,C21,C210-C2- 13,C216	0.002529	15.00	0.037936
1129701690	Capacitor	C218,C219,C221- ,C222,C229-C233- ,C242,C251,C252- ,C255,C256	0.002529	14.00	0.035407
1129701690	Capacitor	C260,C261,C263- ,C264,C269,C27,- C272-C274,C276- ,C278,C28	0.002529	12.00	0.030349
1129701690	Capacitor	C280,C289,C29,- C291,C295,C3,C- 30,C300,C31,C32- 4,C344,C345	0.002529	12.00	0.030349
1129701690	Capacitor	C346,C347,C354- ,C357-C362,C366- -C369,C373-C383- ,C385-C389	0.002529	29.00	0.073343
1129701690	Capacitor	C391-C402,C4,C- 405-C415,C417-- C429,C43,C430-- C439,C44	0.002529	49.00	0.123924
1129701690	Capacitor	C440-C442,C446- ,C45,C453,C455,- C456,C46,C461-- C463,C466	0.002529	13.00	0.032878
1129701690	Capacitor	C467,C47,C470-- C472,C474,C475- ,C477-C481,C48,- C5,C507	0.002529	15.00	0.037936
1129701690	Capacitor	C508-C511,C52,- C522,C523,C528- -C536,C538,C556- -C566,C571	0.002529	29.00	0.073343

Standard Reliability Prediction Report

Part Number MPC-6800-A03
Reference Des
Date 七月 1, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.40

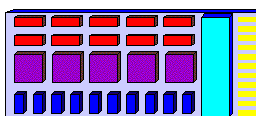


Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701690	Capacitor	C574,C577,C578- ,C582,C583,C6,C- 60-C63,C630,C63- 1,C634	0.002529	13.00	0.032878
1129701690	Capacitor	C638,C67-C76,C7- ,C8,C91-C99	0.002529	22.00	0.055640
1129701080	Capacitor	C183-C185,C188- ,C189,C201-C203- ,C205,C214,C215- ,C217,C26	0.002712	13.00	0.035251
1129701080	Capacitor	C267,C288,C290- ,C296,C298,C299- ,C305,C306,C313- ,C315,C316	0.002712	12.00	0.032540
1129701080	Capacitor	C325,C327,C328- ,C331,C335,C337- ,C36,C40,C416,C- 49-C51	0.002712	12.00	0.032540
1129701080	Capacitor	C537,C539,C543- ,C544,C554,C641- ,C77-C86,C88,C90	0.002712	18.00	0.048809
1122747880	Capacitor	C223,C225,C297	0.002712	3.00	0.008135
105A506823	Resistor	R460,R464	0.002241	2.00	0.004482
105A503033	Resistor	R461	0.002241	1.00	0.002241
105A523233	Resistor	R462	0.002241	1.00	0.002241
105A505633	Resistor	R468,R469,R597	0.002241	3.00	0.006723
105A700303	Resistor	R533,R535	0.002241	2.00	0.004482
14S4862300	Integrated Circuit	U4	0.147959	1.00	0.147959
14S5A00401	Integrated Circuit	U5,U50	0.037931	2.00	0.075862
1213103018	Inductor	NL1,NL10-NL12,- NL2-NL9	0.002241	12.00	0.026894
14S6202007	Integrated Circuit	U20	0.128889	1.00	0.128889
14S4025600	Integrated Circuit	U11	0.324896	1.00	0.324896
14S4810000	Integrated Circuit	U15	0.075342	1.00	0.075342
14S3128420	Integrated Circuit	U21	0.141828	1.00	0.141828
14S4048501	Integrated Circuit	U26	0.129877	1.00	0.129877
14S4048501	Integrated Circuit	U24	0.133453	1.00	0.133453
105A518223	Resistor	R599	0.002241	1.00	0.002241
1315699010	Semiconductor	U34,U35	0.156479	2.00	0.312959
14S5900600	Integrated Circuit	U38	0.149312	1.00	0.149312
14S4070610	Integrated Circuit	U42	0.056812	1.00	0.056812
14S5812500	Integrated Circuit	U43	0.070934	1.00	0.070934
14S2303700	Integrated Circuit	U45	0.223575	1.00	0.223575
14S4050100	Integrated Circuit	U47	0.037931	1.00	0.037931
1231332721	Miscellaneous	Y1	0.150000	1.00	0.150000
1231314350	Miscellaneous	Y2	0.150000	1.00	0.150000
1231314350	Miscellaneous	Y7	0.150000	1.00	0.150000
14S4813000	Integrated Circuit	U12	0.037931	1.00	0.037931
1540775080	Resistor	RN79	0.006077	1.00	0.006077
106B501031	Resistor	RT1-RT3	0.011027	3.00	0.033082

Standard Reliability Prediction Report

Part Number MPC-6800-A03
Reference Des
Date 七月 1, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.40

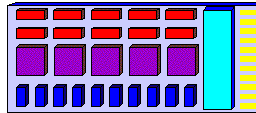


Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A500139	Resistor	R178,R181,R184- ,R186,R193,R206- ,R207,R213,R22,- R23,R26	0.002241	11.00	0.024653
105A500139	Resistor	R27,R28,R321,R- 324,R331,R476,R- 483,R488,R494,R- 503,R504	0.002241	11.00	0.024653
105A500139	Resistor	R506,R511,R512- ,R515,R523,R530- ,R536,R546,R547- ,R617,R619	0.002241	11.00	0.024653
105A510053	Resistor	R549	0.013447	1.00	0.013447
105A701523	Resistor	R289,R595,R7	0.002241	3.00	0.006723
105A722003	Resistor	R10,R15	0.002241	2.00	0.004482
105A549903	Resistor	R13	0.002241	1.00	0.002241
105A700009	Resistor	C348,C351,C370- ,C371,R169,R19,- R20,R295,R296,- R332,R336	0.002241	11.00	0.024653
105A700009	Resistor	R338,R361,R364- ,R366,R369,R377- ,R379,R416,R428- ,R429	0.002241	10.00	0.022411
105A700009	Resistor	R431,R432,R54,- R554,R555,R560- ,R578,R579,R600	0.002241	9.00	0.020170
105A703309	Resistor	R100-R102,R105- -R108,R111-R116- ,R119,R120,R123- ,R124	0.002241	17.00	0.038100
105A703309	Resistor	R127,R128,R214- ,R224,R261,R275- ,R276,R293,R294- ,R32,R477	0.002241	11.00	0.024653
105A703309	Resistor	R489,R499,R500- ,R592,R615,R618- ,R75-R78,R80,R8- 2-R84,R86	0.002241	15.00	0.033617
105A703309	Resistor	R87,R89-R93,R95- ,R97-R99	0.002241	10.00	0.022411
105A502823	Resistor	R145,R153	0.002241	2.00	0.004482
12313012A1	Miscellaneous	Y3	0.150000	1.00	0.150000
105A505923	Resistor	R596	0.002241	1.00	0.002241
1654030000	Connection	CN17	0.016541	1.00	0.016541
1315600311	Semiconductor	Q30	0.131323	1.00	0.131323
1315600311	Semiconductor	Q28	0.129990	1.00	0.129990
1315600311	Semiconductor	Q31	0.126376	1.00	0.126376
1315600311	Semiconductor	Q29	0.122521	1.00	0.122521
14S3065500	Integrated Circuit	U13	0.120725	1.00	0.120725
14S4040001	Integrated Circuit	U1	0.133056	1.00	0.133056
1231316051	Miscellaneous	Y8	0.150000	1.00	0.150000
14S4622500	Integrated Circuit	U51	0.056812	1.00	0.056812
105A718003	Resistor	R284	0.002241	1.00	0.002241

Standard Reliability Prediction Report

Part Number MPC-6800-A03
Reference Des
Date 七月 1, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.40



Description Top-level assembly
File Name MPC-6800-A03-400MHZ.-
Time 2:59 下午
Failure Rate 22.709528
MTBF 44,034

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A532423	Resistor	R598	0.002241	1.00	0.002241
1314108312	Integrated Circuit	Q42	0.281305	1.00	0.281305
105A506803	Resistor	R604	0.002241	1.00	0.002241
14S4701900	Integrated Circuit	U32	0.056812	1.00	0.056812
14S4870500	Integrated Circuit	U19	0.070943	1.00	0.070943
14S4121600	Integrated Circuit	U27	0.037931	1.00	0.037931
1301053040	Semiconductor	D42,D43	0.023472	2.00	0.046944
1311118810	Semiconductor	Q11,Q12	0.023472	2.00	0.046944
105A504703	Resistor	R246,R247,R443- ,R444,R446,R448- -R451,R454	0.002241	10.00	0.022411
1314158210	Integrated Circuit	U4	0.056812	1.00	0.056812
1059700001	Resistor	D15,D16,L26,L29- ,L33	0.002241	5.00	0.011206
14S4811000	Integrated Circuit	U18	0.068263	1.00	0.068263
105A515009	Resistor	R14,R16,R18,R24- ,R25,R30,R31,R4- 1,R5,R586-591,R6- ,R8	0.002241	17.00	0.038100

MPC-6800-A03

(Intel low voltage celeron 650MHz CPU)

Reliability Prediction Report (MTBF)

Report NO : 04E070013

07-07-2004

Issue Stamp

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

. **Model Name:** MPC-6800-A03 (Intel low voltage celeron 650MHz CPU)

. **Prediction Date:** July 7, 2004

. **Prediction Site:** AAEON Q.E. Dept.

. **Predicted by :** Jessica Chou

. **Equipment:** Relx Ver.7.3 Visual Reliability Software

. **Simulation Environment:**

Temperature: 24.5 degrees C

Standard: Telcordia (Bellcore) Standard

. **Term and Definition:**

Unit : An assembly of device.

Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.

Quantity : The quantity of the selected item.

Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.

MTBF : MTBF is always specified in hours.

. **Prediction Result:**

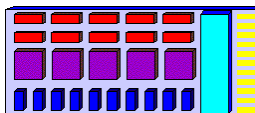
Failure Rate: 21.663290 ppm

MTBF: 46,161 Hours

IX. Prediction Table

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

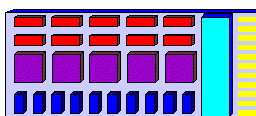


Description Top-level assembly
File Name MPC-6800-A03-650MHZ-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	MPC-6800-A03-65-0MHz		1.00	21.663290	46,161

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

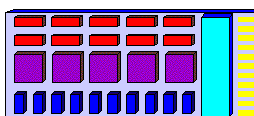


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1654530300	Connection	CRTAUD1	0.016628	1.00	0.016628
1189682191	Capacitor	EC13,EC16	0.014008	2.00	0.028015
1653003201	Connection	JP4*2	0.083141	2.00	0.166282
1653003101	Connection	JP8	0.001663	1.00	0.001663
1654612304	Connection	KBMS1	0.003326	1.00	0.003326
121110276B	Inductor	L91	0.001600	1.00	0.001600
121110276B	Inductor	L90	0.001555	1.00	0.001555
1654543500	Connection	PCON1	0.023834	1.00	0.023834
1652522200	Connection	RJUSB1,RJUSB2	0.012194	2.00	0.024388
1653220208	Connection	CN1	0.022171	1.00	0.022171
1653900034	Connection	CN5	0.013303	1.00	0.013303
1655004020	Connection	CN7	0.055427	1.00	0.055427
1653213220	Connection	CN10	0.014411	1.00	0.014411
1655003000	Connection	CN20,CN22	0.041570	2.00	0.083141
1653005200	Connection	CN21,CN24	0.005543	2.00	0.011085
1655417020	Connection	CN23	0.277137	1.00	0.277137
1651592490	Connection	DIMM1	2.549656	1.00	2.549656
1653003100	Connection	JP1	0.041570	1.00	0.041570
1653002101	Connection	JP10	0.001109	1.00	0.001109
1653002101	Connection	JP7,JP9	0.027714	2.00	0.055427
1654260201	Connection	PCI1	1.662819	1.00	1.662819
1750119011	Miscellaneous	BT1	0.900000	1.00	0.900000
1759100008	Miscellaneous	BUZZ1	0.150000	1.00	0.150000
1653222200	Connection	CN2	0.609700	1.00	0.609700
1655305020	Connection	CN8	0.004434	1.00	0.004434
1653005100	Connection	CN11	0.069284	1.00	0.069284
1211104767	Inductor	L93	0.001723	1.00	0.001723
1211104767	Inductor	L94	0.001607	1.00	0.001607
1653209203	Connection	CN3	0.249423	1.00	0.249423
1124410190	Capacitor	C310,C404,C445- ,C451,C458,C465	0.001057	6.00	0.006341
1189615187	Capacitor	C162,EC15,EC8	0.004885	3.00	0.014654
1189615187	Capacitor	C55	0.006331	1.00	0.006331
1189615187	Capacitor	EC19	0.005768	1.00	0.005768
1189615187	Capacitor	C546	0.006285	1.00	0.006285
1189615187	Capacitor	C547	0.006095	1.00	0.006095
1189615187	Capacitor	C163	0.005843	1.00	0.005843
1189615187	Capacitor	C186	0.006964	1.00	0.006964
1121733380	Capacitor	C575	0.002531	1.00	0.002531
1301005443	Semiconductor	D1,D17,D21,D24,- D26,D39,D40	0.023540	7.00	0.164778
1301005443	Semiconductor	D25	0.030780	1.00	0.030780
105A507509	Resistor	R17,R39,R397,R- 398,R4,R402,R40- 4,R495,R496,R497	0.002246	10.00	0.022456
105A705609	Resistor	R188,R29,R35,R- 38,R9	0.002246	5.00	0.011228
1124427080	Capacitor	C524,C526	0.001057	2.00	0.002114
105A703903	Resistor	R11,R12	0.002246	2.00	0.004491
105A501403	Resistor	R21	0.002246	1.00	0.002246
1310390410	Semiconductor	Q10,Q15,Q27,Q7- ,Q9	0.023540	5.00	0.117698

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

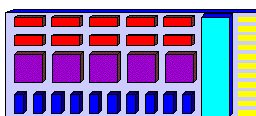


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1124582280	Capacitor	C542,C553	0.001057	2.00	0.002114
1124547190	Capacitor	C258,C303,C304- ,C308,C309,C311- ,C312,C317-C319- ,C329	0.001057	11.00	0.011624
1124547190	Capacitor	C330,C332,C334- ,C336,C339,C504- ,C540	0.001057	7.00	0.007397
1129722091	Capacitor	C270,C291,C341- ,C342,C363,C364- ,C448	0.001057	7.00	0.007397
1653005202	Connection	CN4	0.138568	1.00	0.138568
1653005202	Connection	CN9	0.005543	1.00	0.005543
1653205201	Connection	CN12-CN15	0.138568	4.00	0.554273
1653925216	Connection	CN5	0.027714	1.00	0.027714
1653004202	Connection	CN16	0.004434	1.00	0.004434
1654262300	Connection	CN19	1.718247	1.00	1.718247
1174510380	Capacitor	CP18	0.001057	1.00	0.001057
1129710390	Capacitor	C10,C208,C25,C- 253,C257,C262,C- 282-C287,C32,C3- 3,C333	0.001057	15.00	0.015851
1129710390	Capacitor	C338,C37-C39,C- 41,C42,C53,C54,- C56,C57,C87,C89- ,C9	0.001057	13.00	0.013738
1129610051	Capacitor	C11,C12,C137-C- 139,C158-C161,C- 169,C170,C172,C- 175	0.002713	13.00	0.035274
1129610051	Capacitor	C193,C20,C220,- C227,C228,C234- ,C235,C241,C243	0.002713	9.00	0.024421
1129610051	Capacitor	C265	0.002996	1.00	0.002996
1129610051	Capacitor	C266,C268,C275- ,C277,C34,C340,- C343,C355,C356- ,C372	0.002713	10.00	0.027134
1129610051	Capacitor	C384,C390,C403- ,C452,C457,C460- ,C464,C468,C469- ,C473	0.002713	10.00	0.027134
1129610051	Capacitor	C476,C486,C494- ,C545,C548-C551- ,C555,C572,C58,- C581	0.002713	12.00	0.032561
1129610051	Capacitor	C628,C629,C639- ,C640,C643,C646	0.002713	6.00	0.016280
1129710090	Capacitor	C206,C207,C502- ,C505,C525,C527	0.001057	6.00	0.006341
1124433090	Capacitor	C224,C226,C443- ,C447	0.001057	4.00	0.004227

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

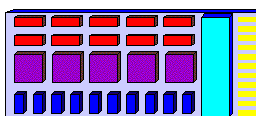


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701790	Capacitor	C236-C238,C244-C248,C279,C307-C365,C503,C506-C567	0.001592	14.00	0.022293
1129701790	Capacitor	C568-C570,C573-C576,C584,C632-C633,C635	0.001592	9.00	0.014331
1315035200	Semiconductor	Q5	0.000000	1.00	0.000000
1311119710	Semiconductor	Q8,Q13	0.023540	2.00	0.047079
1315993310	Semiconductor	Q14,Q43	0.156931	2.00	0.313863
1314101010	Integrated Circuit	Q16,Q6	0.057230	2.00	0.114460
1314101010	Integrated Circuit	Q19	0.147672	1.00	0.147672
1311390610	Semiconductor	Q23,Q25	0.023540	2.00	0.047079
1314108515	Integrated Circuit	Q32	0.137119	1.00	0.137119
1540710382	Resistor	RN1,RN56,RN58,-RN60	0.006105	4.00	0.024418
1540747285	Resistor	RN2,RN3,RN38,-RN4,RN40,RN42,-RN46,RN48,RN50-RN52,RN54	0.006105	11.00	0.067150
1540747285	Resistor	RN62,RN68-RN71-RN76,RN78	0.006105	7.00	0.042732
1540733085	Resistor	RN11,RN14,RN16-RN18,RN20,RN22,RN24,RN26,RN28,RN31	0.006105	10.00	0.061046
1540733085	Resistor	RN32,RN35,RN36-RN45,RN47,RN49,RN5,RN51,RN53,RN55	0.006105	10.00	0.061046
1540733085	Resistor	RN57,RN59,RN61-RN63-RN67,RN7-RN9	0.006105	10.00	0.061046
1540722085	Resistor	RN10,RN12,RN13-RN15,RN17,RN19,RN21,RN23,RN25,RN27	0.006105	10.00	0.061046
1540722085	Resistor	RN29,RN30,RN33-RN34,RN6,RN8	0.006105	6.00	0.036627
1540715381	Resistor	RN37,RN39,RN41	0.006105	3.00	0.018314
1540782280	Resistor	RN43,RN44	0.006105	2.00	0.012209
1540700080	Resistor	NL13-NL15,RN86-NL16-NL22	0.006105	11.00	0.067150
1540710080	Resistor	RN73-RN75,RN77	0.006105	4.00	0.024418
105A513003	Resistor	R33	0.002246	1.00	0.002246
105A733009	Resistor	R334,R339,R34,-R360,R481,R580	0.002246	6.00	0.013473
105A711003	Resistor	R281,R36	0.002246	2.00	0.004491
105A582503	Resistor	R37	0.002246	1.00	0.002246
105A704729	Resistor	R132,R136,R142-R144,R146,R151-R157,R158,R160-R165	0.002246	11.00	0.024701

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

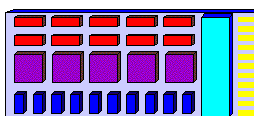


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A704729	Resistor	R167,R173-R177- ,R180,R183,R191- ,R192,R194,R195- -R197	0.002246	14.00	0.031438
105A704729	Resistor	R199,R200,R203- ,R204,R219,R226- ,R234,R235,R249- ,R251,R567	0.002246	11.00	0.024701
105A704729	Resistor	R252,R254-R256- ,R260,R262,R287- ,R288,R297,R298- ,R301	0.002246	11.00	0.024701
105A704729	Resistor	R302,R304,R307- ,R309,R311,R316- -R319,R323,R325- ,R382	0.002246	12.00	0.026947
105A704729	Resistor	R383-R390,R393- ,R413,R421-R422- ,R434,R435,R439- ,R440	0.002246	16.00	0.035929
105A704729	Resistor	R45,R46,R465,R- 472,R473,R478,R- 485,R486,R492,R- 50,R502	0.002246	11.00	0.024701
105A704729	Resistor	R51,R519,R52,R- 521,R58-R60,R61- 3,R614,R68-R70,- R72,R74	0.002246	14.00	0.031438
105A571563	Resistor	R67	0.002246	1.00	0.002246
105A516913	Resistor	R71	0.002246	1.00	0.002246
105A549969	Resistor	R129,R130,R343- -R346,R352-R359- ,R529	0.002246	15.00	0.033683
105A510213	Resistor	R134	0.002246	1.00	0.002246
105A708229	Resistor	R138-R141,R202- ,R215-R218,R225- ,R424,R425	0.002246	12.00	0.026947
105A511313	Resistor	R147,R154	0.002246	2.00	0.004491
105A702229	Resistor	R156,R299,R305- ,R310,R320,R322	0.002246	6.00	0.013473
105A702263	Resistor	R208	0.002246	1.00	0.002246
105A747009	Resistor	R220,R222,R227- ,R436,R437,R479	0.002246	6.00	0.013473
105A551003	Resistor	R263,R290	0.002246	2.00	0.004491
105A756033	Resistor	R267,R269,R272	0.002246	3.00	0.006737
105A701009	Resistor	R273,R274,R291- ,R381,R505-R507- ,R509,R510,R513- ,R517	0.002246	11.00	0.024701
105A701009	Resistor	R537,R539	0.002246	2.00	0.004491
105A720033	Resistor	R278	0.002246	1.00	0.002246
105A502833	Resistor	R306,R315	0.002246	2.00	0.004491
105A502033	Resistor	R185,R312,R313- ,R514,R516,R541- ,R552,R607,R608	0.002246	9.00	0.020210

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
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Temperature 24.50

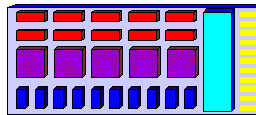


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A505623	Resistor	R333,R351,R550	0.002246	3.00	0.006737
105A514003	Resistor	R401	0.002246	1.00	0.002246
105A736033	Resistor	R409,R411,R415- ,R418,R420	0.002246	5.00	0.011228
105A511503	Resistor	R442,R605	0.002246	2.00	0.004491
105A500003	Resistor	L12,L17,L43,L44,- L62,L64,L66,R258- ,R259,R452,R453	0.002246	11.00	0.024701
105A500003	Resistor	R498,RR542,R56- 2,R622,R623	0.002246	5.00	0.011228
1301005442	Semiconductor	D22,D23,D36	0.023540	3.00	0.070619
1315970110	Semiconductor	F1-F5	0.156931	5.00	0.784657
1653003202	Connection	JP2,JP3,JP5,JP6	0.083141	4.00	0.332564
121230805L	Inductor	L1,L15,L20,L22-L- 25,L36,L37,L53,L- 57,L65,L84,L92	0.002246	14.00	0.031438
1212306030	Inductor	L10,L11,L13,L14,- L16,L3L39,L4,L40- -L42,L5,L54-L56,- L6,L61	0.002246	17.00	0.038175
1212306030	Inductor	L38	0.001530	1.00	0.001530
1212306030	Inductor	L80,L81,L9	0.002246	3.00	0.006737
1212306033	Inductor	L45-L52	0.002246	8.00	0.017964
1212308054	Inductor	L69,L72,L75-L79	0.002246	7.00	0.015719
121230603M	Inductor	L82,L83,L85-L89,- L95	0.002246	8.00	0.017964
1215700212	Semiconductor	Q21,Q22,Q26,Q3- 7-Q40,Q44,Q45	0.023540	9.00	0.211857
1215700212	Semiconductor	Q24	0.029793	1.00	0.029793
105A701003	Resistor	R292	0.002246	1.00	0.002246
105A501823	Resistor	R327	0.002246	1.00	0.002246
105A702423	Resistor	R403	0.002246	1.00	0.002246
105A556003	Resistor	R441	0.002246	1.00	0.002246
105A510003	Resistor	R445,R447,R480- ,R524,R551,R584- ,R585	0.002246	7.00	0.015719
1301005441	Semiconductor	D18-D20,D27-35,- D41	0.023540	13.00	0.306016
1119622180	Capacitor	EC1,EC14,EC17,- EC18,EC2,EC5,E- C6	0.044035	7.00	0.308247
1304001340	Semiconductor	LED1	0.004658	1.00	0.004658
1211104760	Inductor	L2	0.002246	1.00	0.002246
1212306031	Inductor	L32,L63	0.002246	2.00	0.004491
121230805A	Inductor	L67,L68,L70,L71,- L73,L74	0.002246	6.00	0.013473
105A512033	Resistor	R463	0.002246	1.00	0.002246
105A504733	Resistor	R471,R475,R531- ,R574,R575-R577	0.002246	7.00	0.015719
105A516513	Resistor	R534	0.002246	1.00	0.002246
14S4823500	Integrated Circuit	U6	0.108273	1.00	0.108273
1651203291	Connection	U20	0.443418	1.00	0.443418
14S3031100	Integrated Circuit	U9	0.097479	1.00	0.097479

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

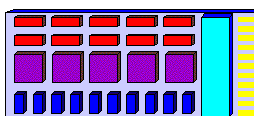


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
14S1488000	Integrated Circuit	U14	0.088128	1.00	0.088128
14S6334610	Integrated Circuit	U16,U17,U48	0.029497	3.00	0.088492
14S4021310	Integrated Circuit	U28,U29,U30,U31	0.057230	4.00	0.228921
14S4021310	Integrated Circuit	U22	0.067180	1.00	0.067180
14S4021310	Integrated Circuit	U23	0.093885	1.00	0.093885
14S5A01400	Integrated Circuit	U41	0.430771	1.00	0.430771
14S5A01400	Integrated Circuit	U25,U40	0.057230	2.00	0.114460
14S3020100	Integrated Circuit	U37	0.057230	1.00	0.057230
14S5A00700	Integrated Circuit	U39	0.054761	1.00	0.054761
14S2652000	Integrated Circuit	U44	0.057230	1.00	0.057230
14S5A05300	Integrated Circuit	U49	0.038156	1.00	0.038156
1231325050	Miscellaneous	Y5,Y6	0.150000	2.00	0.300000
105A701039	Resistor	R1,R131,R162-R-164,R171,R314,R-326,R350,R399,R-400,R405	0.002246	12.00	0.026947
105A701039	Resistor	R406,R408,R410-,R414,R417,R419-,R457-R459,R466-,R467	0.002246	11.00	0.024701
105A701039	Resistor	R470,R482,R490-,R491,R493,R501-,R526,R532,R538-,R548	0.002246	10.00	0.022456
105A701039	Resistor	R553,R557,R558-,R602,R603,R609-,R349	0.002246	7.00	0.015719
1124405090	Capacitor	C239,C240,C579-,C580	0.001057	4.00	0.004227
1124527180	Capacitor	C292,C293,C444-,C449,C459	0.001057	5.00	0.005284
1121733780	Capacitor	C320,C322	0.002531	2.00	0.005061
1124447080	Capacitor	C512-C521,D10--D14,D3,D4,D5-D9	0.001057	22.00	0.023249
1124522880	Capacitor	C541,C552	0.001057	2.00	0.002114
1189633080	Capacitor	C625	0.005941	1.00	0.005941
1189633080	Capacitor	C250,C254,C259-,C622,C623,C624	0.004885	6.00	0.029308
1189633080	Capacitor	C22	0.006229	1.00	0.006229
105A702209	Resistor	R103,R104,R109-,R110,R117,R118-,R121,R122,R125-,R126	0.002246	10.00	0.022456
105A702209	Resistor	R149,R150,R152-,R228-R233,R236-,R250,R341,R370-,R42,R53	0.002246	27.00	0.060630
105A702209	Resistor	R55,R79,R81,R85-,R88,R94,R96	0.002246	7.00	0.015719
105A531613	Resistor	R211,R66	0.002246	2.00	0.004491
105A716003	Resistor	R73	0.002246	1.00	0.002246
105A551113	Resistor	R133	0.002246	1.00	0.002246
105A536503	Resistor	R148,R155,R198	0.002246	3.00	0.006737
105A711043	Resistor	R170,R190	0.013473	2.00	0.026947

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
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Temperature 24.50

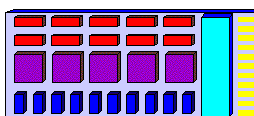


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A530003	Resistor	R221	0.002246	1.00	0.002246
105A747033	Resistor	R266,R268,R270	0.002246	3.00	0.006737
105A710039	Resistor	R277,R279,R280- ,R282,R283,R286- ,R300,R303,R601- ,R616	0.002246	10.00	0.022456
105A710039	Resistor	R621	0.002246	1.00	0.002246
1653007204	Connection	CN6	0.193996	1.00	0.193996
1174510180	Capacitor	CP1,CP10-CP17,- CP2-CP9	0.001057	17.00	0.017965
1129701690	Capacitor	C1,C100-C129,C- 13,C130-C136,C1- 4,C140-C157,C15- ,C16,C164	0.002531	61.00	0.154374
1129701690	Capacitor	C165-C168,C17,- C171,C173,C174- ,C178-C182,C18,- C19,C192	0.002531	16.00	0.040492
1129701690	Capacitor	C194,C196-C199- ,C2,C200,C204,C- 209,C21,C210-C2- 13,C216	0.002531	15.00	0.037961
1129701690	Capacitor	C218,C219,C221- ,C222,C229-C233- ,C242,C251,C252- ,C255,C256	0.002531	14.00	0.035430
1129701690	Capacitor	C260,C261,C263- ,C264,C269,C27,- C272-C274,C276- ,C278,C28	0.002531	12.00	0.030369
1129701690	Capacitor	C280,C289,C29,- C291,C295,C3,C- 30,C300,C31,C32- 4,C344,C345	0.002531	12.00	0.030369
1129701690	Capacitor	C346,C347,C354- ,C357-C362,C366- -C369,C373-C383- ,C385-C389	0.002531	29.00	0.073391
1129701690	Capacitor	C391-C402,C4,C- 405-C415,C417-- C429,C43,C430-- C439,C44	0.002531	49.00	0.124006
1129701690	Capacitor	C440-C442,C446- ,C45,C453,C455,- C456,C46,C461-- C463,C466	0.002531	13.00	0.032899
1129701690	Capacitor	C467,C47,C470-- C472,C474,C475- ,C477-C481,C48,- C5,C507	0.002531	15.00	0.037961
1129701690	Capacitor	C508-C511,C52,- C522,C523,C528- -C536,C538,C556- -C566,C571	0.002531	29.00	0.073391

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50

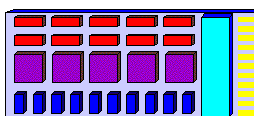


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701690	Capacitor	C574,C577,C578- ,C582,C583,C6,C- 60-C63,C630,C63- 1,C634	0.002531	13.00	0.032899
1129701690	Capacitor	C638,C67-C76,C7- ,C8,C91-C99	0.002531	22.00	0.055676
1129701080	Capacitor	C183-C185,C188- ,C189,C201-C203- ,C205,C214,C215- ,C217,C26	0.002713	13.00	0.035274
1129701080	Capacitor	C267,C288,C290- ,C296,C298,C299- ,C305,C306,C313- ,C315,C316	0.002713	12.00	0.032561
1129701080	Capacitor	C325,C327,C328- ,C331,C335,C337- ,C36,C40,C416,C- 49-C51	0.002713	12.00	0.032561
1129701080	Capacitor	C537,C539,C543- ,C544,C554,R641- ,C77-C86,C88,C90	0.002713	18.00	0.048841
1122747880	Capacitor	C223,C225,C297	0.002713	3.00	0.008140
105A506823	Resistor	R460,R464	0.002246	2.00	0.004491
105A503033	Resistor	R461	0.002246	1.00	0.002246
105A523233	Resistor	R462	0.002246	1.00	0.002246
105A505633	Resistor	R468,R469,R597	0.002246	3.00	0.006737
105A700303	Resistor	R533,R535	0.002246	2.00	0.004491
14S4862300	Integrated Circuit	U4	0.115242	1.00	0.115242
14S5A00401	Integrated Circuit	U5,U50	0.038156	2.00	0.076311
1213103018	Inductor	NL1,NL10-NL12,- NL2-NL9	0.002246	12.00	0.026947
14S6202007	Integrated Circuit	U20	0.130077	1.00	0.130077
14S4025600	Integrated Circuit	U11	0.222137	1.00	0.222137
14S4810000	Integrated Circuit	U15	0.057437	1.00	0.057437
14S3128420	Integrated Circuit	U21	0.083873	1.00	0.083873
14S4048501	Integrated Circuit	U26	0.089379	1.00	0.089379
14S4048501	Integrated Circuit	U24	0.086893	1.00	0.086893
105A518223	Resistor	R599	0.002246	1.00	0.002246
1315699010	Semiconductor	U34,U35	0.156931	2.00	0.313863
14S5900600	Integrated Circuit	U38	0.124973	1.00	0.124973
14S4070610	Integrated Circuit	U42	0.057230	1.00	0.057230
14S5812500	Integrated Circuit	U43	0.057809	1.00	0.057809
14S2303700	Integrated Circuit	U45	0.110181	1.00	0.110181
14S4050100	Integrated Circuit	U47	0.038156	1.00	0.038156
1231332721	Miscellaneous	Y1	0.150000	1.00	0.150000
1231314350	Miscellaneous	Y2	0.150000	1.00	0.150000
14S4813000	Integrated Circuit	U12	0.038156	1.00	0.038156
1540775080	Resistor	RN79	0.006105	1.00	0.006105
106B501031	Resistor	RT1-RT3	0.011085	3.00	0.033256
105A500139	Resistor	R178,R181,R184- ,R186,R193,R206- ,R207,R213,R22,- R23,R26	0.002246	11.00	0.024701

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
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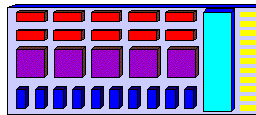


Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A500139	Resistor	R27,R28,R321,R-324,R331,R476,R-483,R488,R494,R-503,R504	0.002246	11.00	0.024701
105A500139	Resistor	R506,R511,R512-,R515,R523,R530-,R536,R546,R547-,R617,R619	0.002246	11.00	0.024701
105A510053	Resistor	R549	0.013473	1.00	0.013473
105A701523	Resistor	R289,R595,R7	0.002246	3.00	0.006737
105A722003	Resistor	R10,R15	0.002246	2.00	0.004491
105A549903	Resistor	R13	0.002246	1.00	0.002246
105A700009	Resistor	C348,C351,C370-,C371,R169,R19,-R20,R295,R296,-R332,R336	0.002246	11.00	0.024701
105A700009	Resistor	R338,R361,R364-,R366,R369,R377-,R379,R416,R428-,R429	0.002246	10.00	0.022456
105A700009	Resistor	R431,R432,R54,-R554,R555,R560-,R578,R579,R600	0.002246	9.00	0.020210
105A703309	Resistor	R100-R102,R105-,R108,R111-R116-,R119,R120,R123-,R124	0.002246	17.00	0.038175
105A703309	Resistor	R127,R128,R214-,R224,R261,R275-,R276,R293,R294-,R32,R477	0.002246	11.00	0.024701
105A703309	Resistor	R489,R499,R500-,R592,R615,R618-,R75-R78,R80,R8-2-R84,R86	0.002246	15.00	0.033683
105A703309	Resistor	R87,R89-R93,R95-,R97-R99	0.002246	10.00	0.022456
105A502823	Resistor	R145,R153	0.002246	2.00	0.004491
12313012A1	Miscellaneous	Y3	0.150000	1.00	0.150000
105A505923	Resistor	R596	0.002246	1.00	0.002246
1315600311	Semiconductor	Q30	0.100397	1.00	0.100397
1315600311	Semiconductor	Q28	0.097962	1.00	0.097962
1315600311	Semiconductor	Q31	0.106258	1.00	0.106258
1315600311	Semiconductor	Q29	0.105405	1.00	0.105405
14S3065500	Integrated Circuit	U13	0.074932	1.00	0.074932
1231316051	Miscellaneous	Y8	0.150000	1.00	0.150000
14S4622500	Integrated Circuit	U51	0.057230	1.00	0.057230
105A718003	Resistor	R284	0.002246	1.00	0.002246
105A532423	Resistor	R598	0.002246	1.00	0.002246
1314108312	Integrated Circuit	Q42	0.148667	1.00	0.148667
105A506803	Resistor	R604	0.002246	1.00	0.002246
14S4870500	Integrated Circuit	U19	0.055527	1.00	0.055527
14S4121600	Integrated Circuit	U27	0.038156	1.00	0.038156
1301053040	Semiconductor	D42,D43	0.023540	2.00	0.047079

Standard Reliability Prediction Report

Part Number MPC-6800-A03-650MHz
Reference Des
Date 七月 7, 2004
Environment GF, GU - Ground Fixed,
Temperature 24.50



Description Top-level assembly
File Name MPC-6800-A03-650MHZ.-
Time 3:43 下午
Failure Rate 21.663290
MTBF 46,161

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A504703	Resistor	R246,R247,R443- ,R444,R446,R448- -R451,R454	0.002246	10.00	0.022456
1314158210	Integrated Circuit	U41	0.057230	1.00	0.057230
1059700001	Resistor	D15,D16,L26,L29- ,L33	0.002246	5.00	0.011228
105A515009	Resistor	R14,R16,R18,R24- ,R25,R30,R31,R4- 1,R5,R586-591,R6- ,R8	0.002246	17.00	0.038175
14S4065000	Integrated Circuit	U1	0.054285	1.00	0.054285
14S4810001	Integrated Circuit	U18	0.049558	1.00	0.049558
1654040000	Connection	CN18	0.022171	1.00	0.022171