

# **PCM-6892-B02**

## **Reliability Prediction Report**

### **(MTBF)**

Report NO : 04E070011

**06-30-2004**

Issue Stamp

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

# Reliability Prediction (MTBF)

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- . **Model Name:** PCM-6892-B02
- . **Prediction Date:** June 30, 2004
- . **Prediction Site:** AAEON Q.E. Dept.
- . **Predicted by :** Jessica Chou
- . **Equipment:** Relx Ver.7.3 Visual Reliability Software

## . **Simulation Environment:**

Temperature: 23.8 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:**

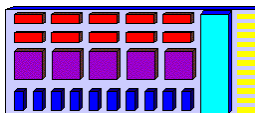
Failure Rate: 12.427728 ppm

MTBF: 80,465 Hours

## IX. Prediction Table

**Standard Reliability Prediction Report**

**Part Number** PCM-6892-B02(400MHz CPU)  
**Reference Des**  
**Date** 六月 30, 2004  
**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80

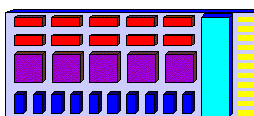


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	PCM-6892-B02(40-0MHz CPU)		1.00	12.427728	80,465

**Standard Reliability Prediction Report**

**Part Number** PCM-6892-B02(400MHz CPU)  
**Reference Des**  
**Date** 六月 30, 2004  
**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80

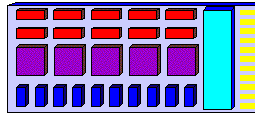


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1651584490	Connection	DIMM1	0.089755	1.00	0.089755
1653003106	Connection	JP2-JP4	0.001603	3.00	0.004808
1654260201	Connection	PCI1	0.064110	1.00	0.064110
16540F0201	Connection	PCMCIA1	0.080138	1.00	0.080138
1653900034	Connection	CFD1	0.012822	1.00	0.012822
1653005104	Connection	CN14	0.066782	1.00	0.066782
165300420G	Connection	CN16	0.106851	1.00	0.106851
1653005207	Connection	CN17	0.005343	1.00	0.005343
1161618110	Capacitor	C114	0.002519	1.00	0.002519
1169639190	Capacitor	C99	0.005984	1.00	0.005984
165322020D	Connection	IDE1	0.021370	1.00	0.021370
1211100300	Inductor	L21	0.001832	1.00	0.001832
1211100300	Inductor	L22	0.001715	1.00	0.001715
1750220323	Miscellaneous	BT1	0.900000	1.00	0.900000
1655003022	Connection	CN15	0.001603	1.00	0.001603
1129710390	Capacitor	C133,C135,C136- ,C154,C258,C275- ,C283,C286,C295- ,C304,C319,C344	0.001052	12.00	0.012623
1129710390	Capacitor	C360,C65,C70,C- 78	0.001052	4.00	0.004208
1169682190	Capacitor	C97,C98	0.156430	2.00	0.312860
1655417020	Connection	CN5	0.010685	1.00	0.010685
1759100008	Miscellaneous	BUZZ1	0.150000	1.00	0.150000
1653003207	Connection	CN8,CN9	0.080138	2.00	0.160276
1174510180	Capacitor	CP10-CP12,CP15- ,CP17-CP19,CP4- -CP7,CP9	0.001052	12.00	0.012623
1129701690	Capacitor	C1,C107,C110,C- 123,C124,C126,C- 129,C13,C132,C1- 37-C141,C157,C1- 58	0.001808	16.00	0.028921
1129701690	Capacitor	C163,C166-C168- ,C170,C174,C175- ,C178,C18,C180,- C181,C184,C187	0.002519	13.00	0.032749
1129701690	Capacitor	C189,C190,C197- ,C207-C209,C214- ,C217,C219,C22,- C222,C225-C230- ,C23	0.002519	18.00	0.045344
1129701690	Capacitor	C231-C234,C238- ,C239,C24,C240-- C244,C251,C253- -C257,C263,C265	0.002519	20.00	0.050382
1129701690	Capacitor	C266,C270,C272- ,C276,C279-C282- ,C284,C289,C29,- C290,C291,C293	0.002519	14.00	0.035268
1129701690	Capacitor	C296,C298,C299- ,C3,C30,C302,C3- 05,C307,C308,C3- 1,C312,C314-C318	0.002519	16.00	0.040306

**Standard Reliability Prediction Report**

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**Temperature** 23.80

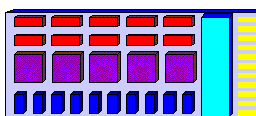


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129701690	Capacitor	C323,C324,C326-C328,C33,C330,-C332,C336-C343,C345,C348,C353	0.002519	19.00	0.047863
1129701690	Capacitor	C354,C356,C357-,C359,C36,C363,-C364,C366-C368-,C37,C373-C378,-C38	0.002519	18.00	0.045344
1129701690	Capacitor	C380,C381,C390-,C391,C394,C396-,C398,C1,C40,C401,C403,C406-C409	0.002519	15.00	0.037787
1129701690	Capacitor	C41,C412,C416,-C419,C420,C425-,C427,C432,C435-,C436,C439,C443	0.002519	12.00	0.030229
1129701690	Capacitor	C444,C448,C456-,C457,C461,C470-,C472,C474,C477-,C478,C48,C481	0.002519	12.00	0.030229
1129701690	Capacitor	C482,C485,C486-,C489,C49,C490,-C491-C493,C495-,C496,C498,C499	0.002519	14.00	0.035268
1129701690	Capacitor	C54-C62,C68,C7,-C73-C77,C82,C83-,C86,C87,C89,C9-,C93	0.002519	23.00	0.057940
1119622180	Capacitor	C108,C109,C11,-C14,C15,C39,C5-,C53,C6,C64,C85	0.005984	9.00	0.053852
1119622180	Capacitor	C39	0.006757	1.00	0.006757
1119622180	Capacitor	C53	0.006671	1.00	0.006671
1129710050	Capacitor	C10,C103,C105,-C12,C127,C144,-C169,C17,C176,-C179,C182,C183-,C188	0.002701	13.00	0.035113
1129710050	Capacitor	C19,C198,C203,-C204,C216,C221-,C252,C26,C274,-C28,C301,C309,-C329	0.002701	13.00	0.035113
1129710050	Capacitor	C335,C347,C349-,C352,C361,C365-,C388,C392,C395-,C400,C402,C405	0.002701	12.00	0.032412
1129710050	Capacitor	C431,C433,C449-,C458,C494,C50,-C500,C51,C52,C-67,C72,C8,C80	0.002701	13.00	0.035113
1129747650	Capacitor	C20,C21,C34,C35	0.005402	4.00	0.021608

**Standard Reliability Prediction Report**

**Part Number** PCM-6892-B02(400MHz CPU)  
**Reference Des**  
**Date** 六月 30, 2004  
**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80

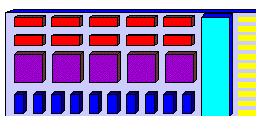


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129710090	Capacitor	C134,C27,C271,- C351,C383,C399	0.001052	6.00	0.006311
1129701080	Capacitor	C102,C104,C106- ,C112,C113,C121- ,C128,C148,C162- ,C215,C250,C259	0.002701	12.00	0.032412
1129701080	Capacitor	C267,C268,C273- ,C277,C278,C285- ,C292,C297,C300- ,C303,C306,C310	0.002701	12.00	0.032412
1129701080	Capacitor	C311,C320,C321- ,C322,C325,C331- ,C346,C350,C355- ,C362,C369,C370	0.002701	12.00	0.032412
1129701080	Capacitor	C371,C372,C379- ,C382,C404,C410- ,C411,C414,C45,- C451,C46,C497,- C63	0.002701	13.00	0.035113
1129701080	Capacitor	C66,C71,C79	0.002701	3.00	0.008103
1111610190	Capacitor	C69	0.002519	1.00	0.002519
1124522280	Capacitor	C145,C194,C88	0.001052	3.00	0.003156
1124527180	Capacitor	C115,C116,C171	0.001052	3.00	0.003156
1124533180	Capacitor	C117	0.001052	1.00	0.001052
1121733780	Capacitor	C146,C149,C150- ,C151,C152,C153- ,C195,C237	0.002519	8.00	0.020153
1124547080	Capacitor	C160,C161	0.001052	2.00	0.002104
1174610280	Capacitor	CP3	0.001052	1.00	0.001052
1059700001	Resistor	R1,R104,R110,R- 148,R154,R206,R- 218,R366	0.002215	8.00	0.017718
105A704729	Resistor	R10,R114,R115,- R13,R130,R136,- R14-R16,R160,R- 161,R17,R179,R1- 83	0.002215	14.00	0.031007
105A704729	Resistor	R184-R187,R235- ,R236,R24,R241,- R256,R257,R266- ,R267,R270,R273	0.002215	14.00	0.031007
105A704729	Resistor	R3,R309,R310,R- 311,R317,R321,R- 324,R325,R4,R85- ,R86,R9,R92	0.002215	13.00	0.028792
105A700139	Resistor	R139-R141,R143- ,R175,R178,R220- ,R229,R263,R264- ,R265,R295,R323	0.002215	13.00	0.028792
105A700139	Resistor	R45,R99	0.002215	2.00	0.004430
105A702209	Resistor	R111,R112,R113- ,R119,R121,R123- ,R125,R127,R131- ,R132,R133,R135	0.002215	12.00	0.026578

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**Temperature** 23.80

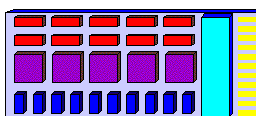


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A700139	Resistor	R147,R149,R151- ,R152,R153,R163- ,R164,R260,R28,- R280,R29,R299,- R320	0.002215	13.00	0.028792
105A700139	Resistor	R373,R382,R6	0.002215	3.00	0.006644
105A548713	Resistor	R18	0.002215	1.00	0.002215
105A700009	Resistor	R106,R108,R116- ,R137,R155,R182- ,R198,R20,R21,R- 213,R221,R222,R- 227	0.002215	13.00	0.028792
105A700009	Resistor	R232,R242,R247- ,R298,R312,R33,- R371,R372,R50,- R57,R58,R59,R61- ,R63	0.002215	14.00	0.031007
105A700009	Resistor	R71,R74,R87,R89- ,R91,R94,R95	0.002215	7.00	0.015504
105A504703	Resistor	R30,R31	0.002215	2.00	0.004430
105A708229	Resistor	R46,R48,R64,R65- ,R73,R78	0.002215	6.00	0.013289
105A701039	Resistor	R150,R207,R209- ,R237,R238,R239- ,R250,R261,R283- ,R290,R302,R303	0.002215	12.00	0.026578
105A701039	Resistor	R304,R308,R374- ,R375,R376,R5,R- 72,R76	0.002215	8.00	0.017718
105A702723	Resistor	R347,R351,R81	0.002215	3.00	0.006644
105A747003	Resistor	R107,R120,R145	0.002215	3.00	0.006644
1129610260	Capacitor	C164,C165	0.000707	2.00	0.001413
1124515180	Capacitor	C172,C173	0.001052	2.00	0.002104
1124547190	Capacitor	C185,C186,C202- ,C212,C213,C223- ,C224,C246,C247- ,C446	0.001052	10.00	0.010519
1129701790	Capacitor	C218,C235,C248- ,C249,C260,C261- ,C262,C264,C462- ,C463,C464,C465	0.001052	12.00	0.012623
1129701790	Capacitor	C466,C467,C468- ,C469,C471,C473- ,C475,C479,C483- ,C487	0.001052	10.00	0.010519
1189633080	Capacitor	C358	0.006666	1.00	0.006666
1124510180	Capacitor	C438	0.001052	1.00	0.001052
1124405090	Capacitor	C452,C454	0.001052	2.00	0.002104
14S3006000	Integrated Circuit	DN1	0.054357	1.00	0.054357
1301005441	Semiconductor	D1,D11,D2,D3	0.023068	4.00	0.092273
1301005442	Semiconductor	D7	0.023068	1.00	0.023068
165321720C	Connection	FDD1	0.018165	1.00	0.018165
1315970110	Semiconductor	F1-F4	0.153788	4.00	0.615152
1652508204	Connection	LAN1,LAN2	0.004274	2.00	0.008548

**Standard Reliability Prediction Report**

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**Reference Des**  
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**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80



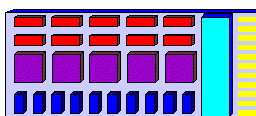
**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1304900140	Semiconductor	LED2	0.004368	1.00	0.004368
1213106008	Inductor	LN1, LN10-LN19,- LN2, LN20, LN3-L- N9	0.002215	20.00	0.044296
1212306032	Inductor	L1, L19, L20, L23-L- 29, L3, L30-L34, L3- 8, L39, L41, L42, L43- , L44, L45, L49, L50,- L55	0.002215	26.00	0.057585
1212306032	Inductor	L56-L60, L69, L73,- L74, L76, L77, L78,- L79, L80, L81	0.002215	14.00	0.031007
1212306033	Inductor	L10-L13, L15-L18,- L35, L37, L4, L47, L- 52, L6, L61, L62, L64- , L68, L7, L71, L83, L- 84	0.002215	22.00	0.048725
1212306033	Inductor	L9	0.002215	1.00	0.002215
121230805E	Inductor	L63, L65, L66, L70	0.002215	4.00	0.008859
1211104760	Inductor	L72	0.084162	1.00	0.084162
16540F0200	Connection	PCMCIA1	0.080138	1.00	0.080138
1653204203	Connection	CN1	0.004274	1.00	0.004274
1654020000	Connection	CN2	0.010685	1.00	0.010685
1654040000	Connection	CN6	0.534253	1.00	0.534253
1653207205	Connection	CN10	0.186989	1.00	0.186989
165322020B	Connection	CN11	0.021370	1.00	0.021370
1174547080	Capacitor	CP1, CP13, CP14,- CP16, CP2, CP20,- CP8	0.001078	7.00	0.007547
105A501823	Resistor	R205, R212, R214- , R223	0.002215	4.00	0.008859
105A568003	Resistor	R251, R252	0.002215	2.00	0.004430
105A756033	Resistor	R253, R275, R281- , R307	0.002215	4.00	0.008859
105A515003	Resistor	R259, R326, R329- , R334, R337, R340- , R342, R343, R348	0.002215	9.00	0.019933
105A512113	Resistor	R276	0.002215	1.00	0.002215
105A501633	Resistor	R284	0.002215	1.00	0.002215
105A553623	Resistor	R291	0.002215	1.00	0.002215
105A700233	Resistor	R300, R301	0.002215	2.00	0.004430
105A511503	Resistor	R315, R380	0.002215	2.00	0.004430
105A501403	Resistor	R328	0.002215	1.00	0.002215
105A522003	Resistor	R331, R338	0.002215	2.00	0.004430
105A582503	Resistor	R332	0.002215	1.00	0.002215
105A513003	Resistor	R344	0.002215	1.00	0.002215
105A516513	Resistor	R358	0.002215	1.00	0.002215
1059701001	Resistor	R359	0.002215	1.00	0.002215
105A519103	Resistor	R362, R381	0.002215	2.00	0.004430
14S3161200	Integrated Circuit	U1	0.123827	1.00	0.123827
14S4810000	Integrated Circuit	U3	0.074932	1.00	0.074932
14S4810000	Integrated Circuit	U6	0.070168	1.00	0.070168
1315992601	Semiconductor	U12	0.023068	1.00	0.023068



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**Temperature** 23.80

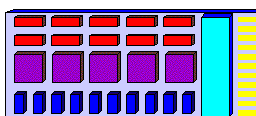


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1315992601	Semiconductor	U20	0.037815	1.00	0.037815
1310390410	Semiconductor	Q1,Q20,Q21,Q3	0.023068	4.00	0.092273
1310390410	Semiconductor	Q24	0.037718	1.00	0.037718
1314158210	Semiconductor	Q4	0.050313	1.00	0.050313
1315700213	Semiconductor	Q14	0.033092	1.00	0.033092
1315700213	Semiconductor	Q15	0.033445	1.00	0.033445
1315700213	Semiconductor	Q13	0.035163	1.00	0.035163
1315700213	Semiconductor	Q12	0.035533	1.00	0.035533
1314043210	Semiconductor	Q19	0.045774	1.00	0.045774
1315231310	Semiconductor	Q22	0.023068	1.00	0.023068
1540722280	Resistor	RN1,RN2	0.005911	2.00	0.011822
1540733082	Resistor	RN1,RN2,RN10,- RN17,RN18,RN21- ,RN22,RN4,RN5,- RN6,RN7,RN8,R- N9	0.005911	11.00	0.065023
1540775080	Resistor	RN11	0.005911	1.00	0.005911
1540727080	Resistor	RN13,RN15	0.005911	2.00	0.011822
1540710380	Resistor	RN23	0.005911	1.00	0.005911
15407472A0	Resistor	RP17-RP21,RP24- -RP28,RP7	0.007389	11.00	0.081279
15407103A0	Resistor	RP22	0.007389	1.00	0.007389
106B501031	Resistor	RT1	0.010685	1.00	0.010685
14S4142001	Integrated Circuit	U8	0.070943	1.00	0.070943
14S9260300	Integrated Circuit	U11	0.215069	1.00	0.215069
14S5A12505	Integrated Circuit	U15	0.036609	1.00	0.036609
14S2221600	Integrated Circuit	U17	0.036609	1.00	0.036609
14S4048501	Integrated Circuit	U18,U19	0.054357	2.00	0.108715
14S4268601	Integrated Circuit	U22	0.073715	1.00	0.073715
14S4040001	Integrated Circuit	U24	0.119487	1.00	0.119487
14S2303700	Integrated Circuit	U25	0.171010	1.00	0.171010
14S2652000	Integrated Circuit	U27	0.147672	1.00	0.147672
14S6334603	Integrated Circuit	U29,U30	0.028017	2.00	0.056033
14S4021310	Integrated Circuit	U31,U33,U35,U37	0.054357	4.00	0.217429
14S5824500	Integrated Circuit	U36,U38	0.035698	2.00	0.071396
14S5824401	Integrated Circuit	U40	0.035436	1.00	0.035436
1231325050	Miscellaneous	Y3,Y4	0.150000	2.00	0.300000
1231314350	Miscellaneous	Y6	0.150000	1.00	0.150000
105A501033	Resistor	R102,R105,R285- ,R292,R322,R352- ,R353,R363	0.002215	8.00	0.017718
105A703303	Resistor	R117,R233,R234- ,R289,R318,R360	0.002215	6.00	0.013289
105A701003	Resistor	R118,R122,R124- ,R128	0.002215	4.00	0.008859
105A702233	Resistor	R157,R158,R314	0.002215	3.00	0.006644
105A507503	Resistor	R165-R167,R170- -R172,R188-R191- ,R194,R245,R258- ,R335,R346	0.002215	15.00	0.033222
105A505103	Resistor	R168,R169,R173- ,R174,R192,R193- ,R195,R196	0.002215	8.00	0.017718

**Standard Reliability Prediction Report**

**Part Number** PCM-6892-B02(400MHz CPU)  
**Reference Des**  
**Date** 六月 30, 2004  
**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80

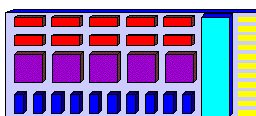


**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A502833	Resistor	R177,R217	0.002215	2.00	0.004430
1121747780	Capacitor	C205	0.002519	1.00	0.002519
1189615187	Capacitor	C393	0.006584	1.00	0.006584
1189615187	Capacitor	C397	0.006642	1.00	0.006642
1189615187	Capacitor	C245	0.007764	1.00	0.007764
1189615187	Capacitor	C269	0.007790	1.00	0.007790
1124522880	Capacitor	C445	0.001052	1.00	0.001052
1124582280	Capacitor	C455	0.001052	1.00	0.001052
1301005440	Semiconductor	D10,D14,D15,D4,- D5,D8,D9	0.023068	7.00	0.161477
1300003240	Semiconductor	D12,D13	0.023068	2.00	0.046136
1653003202	Connection	JP1	0.003206	1.00	0.003206
1653003202	Connection	JP5	0.080138	1.00	0.080138
1304100540	Semiconductor	LED1	0.004368	1.00	0.004368
1653213209	Connection	LPT1	0.347265	1.00	0.347265
1212306030	Inductor	L2,L40,L46,L48,L- 51,L53,L54,L8,L82	0.002215	9.00	0.019933
1212308054	Inductor	D14,L36,L67,L75	0.002215	4.00	0.008859
1654262300	Connection	MPCI1	0.066247	1.00	0.066247
1653925216	Connection	CFD1	0.026713	1.00	0.026713
1653208208	Connection	CN4	0.008548	1.00	0.008548
1654030000	Connection	CN7	0.400690	1.00	0.400690
1653205205	Connection	CN12,CN13	0.133563	2.00	0.267127
105A733009	Resistor	R268,R269,R305- ,R333,R350,R8,R- 97,R98	0.002215	8.00	0.017718
105A528713	Resistor	R19	0.002215	1.00	0.002215
105A704333	Resistor	R68,R83,R34,R62- ,R67	0.002215	5.00	0.011074
105A512103	Resistor	R52,R53	0.002215	2.00	0.004430
105A704739	Resistor	R199-R201,R224- ,R364,R88,R90,R- 93,R96	0.002215	9.00	0.019933
105A500133	Resistor	R101,R277,R286- ,R294,R357,R367	0.002215	6.00	0.013289
1124522180	Capacitor	C177	0.001052	1.00	0.001052
105A747033	Resistor	R254,R274,R282- ,R306	0.002215	4.00	0.008859
105A514003	Resistor	R262	0.002215	1.00	0.002215
105A705603	Resistor	R287,R327,R336- ,R368	0.002215	4.00	0.008859
105A522113	Resistor	R293	0.002215	1.00	0.002215
105A556003	Resistor	R316	0.002215	1.00	0.002215
105A703903	Resistor	R330,R341	0.002215	2.00	0.004430
105A549903	Resistor	R339	0.002215	1.00	0.002215
105A711003	Resistor	R345	0.002215	1.00	0.002215
105A549963	Resistor	R361	0.002215	1.00	0.002215
14S3000201	Inductor	TF1,TF2	0.132888	2.00	0.265775
14S5A00401	Integrated Circuit	U14,U2	0.036609	2.00	0.073218
14S4162100	Integrated Circuit	U5	0.098514	1.00	0.098514
1311119710	Semiconductor	Q2,Q5	0.023068	2.00	0.046136

**Standard Reliability Prediction Report**

**Part Number** PCM-6892-B02(400MHz CPU)  
**Reference Des**  
**Date** 六月 30, 2004  
**Environment** GF, GU - Ground Fixed,  
**Temperature** 23.80



**Description** Top-level assembly  
**File Name** PCM-6892-B02-400MHZ.-  
**Time** 1:59 下午  
**Failure Rate** 12.427728  
**MTBF** 80,465

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1315700211	Semiconductor	Q10,Q11,Q17,Q1-8,Q7,Q8,Q9	0.076894	7.00	0.538258
1315993310	Semiconductor	Q16	0.153788	1.00	0.153788
1314101010	Integrated Circuit	Q23	0.165431	1.00	0.165431
1540701380	Resistor	RN3	0.005911	1.00	0.005911
1540747282	Resistor	RN12,RN20	0.005911	2.00	0.011822
1540715380	Resistor	RN14,RN16	0.005911	2.00	0.011822
15407331A0	Resistor	RP23,RP29	0.007389	2.00	0.014778
14S5A00701	Integrated Circuit	U7	0.036609	1.00	0.036609
14S4860600	Integrated Circuit	U10	0.121348	1.00	0.121348
14S5812502	Integrated Circuit	U16	0.036609	1.00	0.036609
1651203291	Connection	U21	0.017096	1.00	0.017096
14S4397702	Integrated Circuit	U23	0.063169	1.00	0.063169
14S3020200	Integrated Circuit	U26	0.127735	1.00	0.127735
14S1488000	Integrated Circuit	U28	0.054357	1.00	0.054357
14S2039300	Integrated Circuit	U34	0.197632	1.00	0.197632
14S3128420	Integrated Circuit	U39	0.054357	1.00	0.054357
1231332721	Miscellaneous	Y5	0.150000	1.00	0.150000
105A503333	Resistor	R103	0.002215	1.00	0.002215
105A705623	Resistor	R144,R146,R215-,R219	0.002215	4.00	0.008859
105A702223	Resistor	R159,R162,R202	0.002215	3.00	0.006644
105A502003	Resistor	R176,R216,R279	0.002215	3.00	0.006644
105A502039	Resistor	R176,R216	0.002215	2.00	0.004430
1314108412	Integrated Circuit	Q24	0.054357	1.00	0.054357
1314108412	Integrated Circuit	Q6	0.311026	1.00	0.311026
1304000540	Semiconductor	LED3	0.004368	1.00	0.004368
1129722091	Capacitor	C159,C192,C193-,C206,C210	0.001052	5.00	0.005260