



AAEON Technology INC.  
ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

SBC-776

Reliability Prediction Report

(MTBF)

Release Date: JAN. 15, 2002

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Issue Stamp

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QA Manager

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QE Manager

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Test Engineer

# Reliability Prediction (MTBF)

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**I . Model Name:** SBC-776

**II .Description:** CPU Card. FC/Socket370. W/LCD Panel Link. Dual Ethernet/SCSI/Audio/SSD. 4USBs.

Rev.A1.0

**III . Prediction Date:** JAN. 15. 2002

**IV . Prediction Site:** AAEON QE Dept.

**V . Predicted by :** Linda Sun

**VI . Equipment:** Relx Ver.7.2 Visual Reliability Software

## **VII. Simulation Environment:**

- Temperature: 25 degrees C(No temperature rise condition )
- Standard: Telcordia (Bellcore) Standard

## **VIII. 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.

## **IX. Prediction Result:**

- Failure Rate: 12.154318ppm
- MTBF: 82,275Hours

## **X. Prediction Table:**

**AAEON Reliability Prediction Report**

**Part Number** 9697776008  
**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
SBC-776	9697776008	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.154318	82,275

### AAEON Reliability Prediction Report

**Part Number** 9697776008  
**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



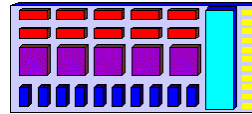
**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A508203	Resistor	R85,R87	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A500133	Resistor	R86,R88	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A530003	Resistor	R89,R92,R100,R103-104,R180,R1-82	Bellcore Issue 6	Level I		0.002268	7.00	.1306	0.015874	440974090.03
105A517403	Resistor	R91	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A702223	Resistor	R94-95,R191,R193,R375	Bellcore Issue 6	Level I		0.002268	5.00	.0933	0.011339	440974090.03
105A520003	Resistor	R101	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A710053	Resistor	R118-119,R283	Bellcore Issue 6	Level I		0.013606	3.00	.3358	0.040819	73495681.67
105A756033	Resistor	R121-122	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A704723	Resistor	R126-127,R132,R135,R138-139,R-141,R190,R194,R205-206,R218,R-221,R251,R287,R289,R296,R298,-R309,R346,R348-349,R358,R366,-R370,R383-384	Bellcore Issue 6	Level I		0.002268	27.00	.5038	0.061228	440974090.03
105A710033	Resistor	R147,R151,R207-208,R389	Bellcore Issue 6	Level I		0.002268	5.00	.0933	0.011339	440974090.03
105A733033	Resistor	R148	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A706823	Resistor	R152-153,R155-156,R168-169,R1-71-172	Bellcore Issue 6	Level I		0.002268	8.00	.1493	0.018142	440974090.03
105A704733	Resistor	R174,R177	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A702723	Resistor	R199	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A701533	Resistor	R170,R173,R175-176,R249,R355,-R391,R394	Bellcore Issue 6	Level I		0.002268	8.00	.1493	0.018142	440974090.03
105A706233	Resistor	R200-201,R209	Bellcore Issue 6	Level I		0.002268	3.00	.0560	0.006803	440974090.03
105A554903	Resistor	R203,R237	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A561903	Resistor	R204,R236	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A510003	Resistor	R212,R243-244,R272-273	Bellcore Issue 6	Level I		0.002268	5.00	.0933	0.011339	440974090.03
105A512003	Resistor	R213,R254	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A707503	Resistor	R214-217,R245-248	Bellcore Issue 6	Level I		0.002268	8.00	.1493	0.018142	440974090.03
105A702033	Resistor	R220,R266	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A703333	Resistor	R250	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A710003	Resistor	R252,R277-280,R356	Bellcore Issue 6	Level I		0.002268	6.00	.1119	0.013606	440974090.03
105A512033	Resistor	R311	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A523233	Resistor	R308	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A505633	Resistor	R307,R310	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03



### AAEON Reliability Prediction Report

**Part Number** 9697776008  
**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A708223	Resistor	R72-73,R96-99,R105-108,R110,R114-115,R133-134,R316-317,R320,-R415	Bellcore Issue 6	Level I		0.002268	19.00	.3545	0.043086	440974090.03
105A511103	Resistor	R26-27	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A528713	Resistor	R386	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1059701001	Resistor	R380-381	Bellcore Issue 6	Level I		0.002268	2.00	.0373	0.004535	440974090.03
105A701053	Resistor	R274	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A722033	Resistor	R385	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A747003	Resistor	R398	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A701033	Resistor	R66-68,R136-137,R146,R150,R178-,R183-186,R188-189,R192,R197-1-98,R224-226,R229,R238-240,R256-,R259,R263,R284,R286,R293,R303-306,R313,R321-322,R327,R329-3-30,R333-337,R339,R345,R347,R3-59-360,R369,R373,R377,R382,R4-04-406,R409	Bellcore Issue 6	Level I		0.002268	58.00	1.0821	0.131527	440974090.03
105A703303	Resistor	R32,R34,R36,R40-41,R43,R45,R51-,R53-55,R58-65,R79-80,R128-130,-R140,R202,R219,R233,R350-351,-R371-372,R388,R401	Bellcore Issue 6	Level I		0.002268	34.00	.6344	0.077102	440974090.03
105A700003	Resistor	FB18,FB20,FB39,FB42-43,R81-83,-R131,R187,R222,R227,R230,R232-,R257,R260,R267,R270,R323,R353-,R361-362,R364,R368,R393,R411--414	Bellcore Issue 6			0.000756	29.00	.1804	0.021921	1322922270.09
106B501030	Resistor	RT1-2	Bellcore Issue 6	Level I		0.011379	1.00	.0936	0.011379	87878027.07
1121647780	Capacitor	C3-12,C37	Bellcore Issue 6	Level I		0.002539	11.00	.2298	0.027929	393852661.82
1121747660	Capacitor	TC2-4,TC18,TC25-54,TC99,TC102-103	Bellcore Issue 6	Level I		0.002539	37.00	.7729	0.093944	393852661.82
1121722780	Capacitor	C176	Bellcore Issue 6	Level I		0.002539	1.00	.0209	0.002539	393852661.82
1121722660	Capacitor	C36,C160,C228-229,C242	Bellcore Issue 6	Level I		0.002539	5.00	.1044	0.012695	393852661.82
1121733780	Capacitor	C89,C95	Bellcore Issue 6	Level I		0.002539	2.00	.0418	0.005078	393852661.82
1122701680	Capacitor	BC1-70,BC73-104,BC107-111,BC1-13-246,C312,C316	Bellcore Issue 6	Level I		0.001598	243.00	3.1940	0.388207	625953979.55
1124410080	Capacitor	C2,C178	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124422080	Capacitor	C31,C47-50,C146-147,C156-157	Bellcore Issue 6	Level I		0.001060	9.00	.0785	0.009542	943198589.05

**AAEON Reliability Prediction Report**

**Part Number** 9697776008  
**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124405080	Capacitor	C41-43	Bellcore Issue 6	Level I		0.001060	3.00	.0262	0.003181	943198589.05
1124447080	Capacitor	C51-52	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124412080	Capacitor	C148,C158	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124420080	Capacitor	C13,C18	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124427080	Capacitor	C26	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1124556180	Capacitor	C28-29	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124515080	Capacitor	C39-40	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124501780	Capacitor	C30,C33,C194,C201-227,C230-241- C313,C318-329	Bellcore Issue 6	Level I		0.001060	55.00	.4798	0.058312	943198589.05
1124522180	Capacitor	C58-60,C79,C87-88,C100-103,C12- 9-144	Bellcore Issue 6	Level I		0.001060	26.00	.2268	0.027566	943198589.05
1124510280	Capacitor	C61-69,C72-73,C168,C243,C246-2- 47,C314-315	Bellcore Issue 6	Level I		0.001060	17.00	.1483	0.018024	943198589.05
1124547180	Capacitor	C86,C93-94,C98	Bellcore Issue 6	Level I		0.001060	4.00	.0349	0.004241	943198589.05
1124522280	Capacitor	C91,C97	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124518180	Capacitor	C104-120,C249,C255,C259	Bellcore Issue 6	Level I		0.001060	20.00	.1745	0.021204	943198589.05
1124527280	Capacitor	C179	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1124533280	Capacitor	C195	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1124510180	Capacitor	C244-245,C251-254,C306-307	Bellcore Issue 6	Level I		0.001060	8.00	.0698	0.008482	943198589.05
1124533180	Capacitor	C248,C250,C256-258	Bellcore Issue 6	Level I		0.001060	5.00	.0436	0.005301	943198589.05
1129701080	Capacitor	BC112,C34-35,C55-57,C70-71,C74- -75,C77,C84-85,C92,C121-128,C1- 63,C170,C175,C181,C262-263,C3- 08,C311,C317	Bellcore Issue 6	Level I		0.005466	31.00	1.3940	0.169434	182961702.19
1169701700	Capacitor	C149,C159	Bellcore Issue 6	Level I		0.000718	2.00	.0118	0.001436	1392389831.84
1174547080	Capacitor	CP6-10(*4)	Bellcore Issue 6	Level I		0.001060	20.00	.1745	0.021204	943198589.05
1111610100	Capacitor	C145,C161-162,C167,C180,C183-- 184,C193,C196-200	Bellcore Issue 6	Level I		0.027242	13.00	2.9138	0.354146	36707972.85
1111622191	Capacitor	C90,C96,C153-154,C177	Bellcore Issue 6	Level I		0.027242	5.00	1.1207	0.136210	36707972.85
1119615290	Capacitor	C169,C171,C186-192	Bellcore Issue 6	Level I		0.075338	9.00	5.5786	0.678044	13273483.15
1119610295	Capacitor	C164-166,C172-174,C182,C185	Bellcore Issue 6	Level I		0.071121	8.00	4.6812	0.568970	14060484.33
1141633080	Capacitor	TC1	Bellcore Issue 6	Level I		0.002357	1.00	.0194	0.002357	424256814.77
1141622060	Capacitor	TC5-6	Bellcore Issue 6	Level I		0.002357	2.00	.0388	0.004714	424256814.77
1141610050	Capacitor	TC8-17,TC19-24,TC55-61,TC100	Bellcore Issue 6	Level I		0.002357	24.00	.4654	0.056570	424256814.77

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**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



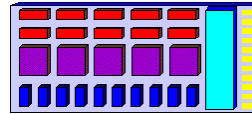
**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1149622180	Capacitor	C298-304	Bellcore Issue 6	Level I		0.004535	7.00	.2612	0.031748	220487045.01
1149610180	Capacitor	C53-54	Bellcore Issue 6	Level I		0.004535	2.00	.0746	0.009071	220487045.01
1231232722	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.2341	0.150000	6666666.67
1231125050	Miscellaneous	Y4,Y6	Bellcore Issue 6	Level I		0.150000	2.00	2.4683	0.300000	6666666.67
1231114352	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.2341	0.150000	6666666.67
1233080050	Miscellaneous	Y5	Bellcore Issue 6	Level I		0.360000	1.00	2.9619	0.360000	2777777.78
1211100103	Inductor	L2	Bellcore Issue 6	Level I		0.086173	1.00	.7090	0.086173	11604581.32
1211100300	Inductor	L3	Bellcore Issue 6	Level I		0.086173	1.00	.7090	0.086173	11604581.32
1211104760	Inductor	L1	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1212306031	Inductor	FB3-6,FB19,FB24-25,FB31-34,FB3-6-37	Bellcore Issue 6	Level I		0.002268	13.00	.2425	0.029480	440974090.03
1212308051	Inductor	FB1-2,FB7,FB12,FB21-23,FB26-30,FB41	Bellcore Issue 6	Level I		0.002268	13.00	.2425	0.029480	440974090.03
1212306036	Inductor	FB8-11,FB13-16	Bellcore Issue 6	Level I		0.002268	8.00	.1493	0.018142	440974090.03
14S3000201	Inductor	TF1-2	Bellcore Issue 6	Level I		0.136062	2.00	2.2389	0.272125	7349568.17
14S4256200	Inductor	U29	Bellcore Issue 6	Level I	36.30	0.102691	1.00	.8449	0.102691	9737976.59
1314780501	Integrated Circuit	U41	Bellcore Issue 6	Level I	47.40	0.049001	1.00	.4032	0.049001	20407702.00
1314811711	Integrated Circuit	U39	Bellcore Issue 6	Level I		0.059366	1.00	.4884	0.059366	16844654.92
1314101010	Integrated Circuit	U33,U36	Bellcore Issue 6	Level I		0.059366	2.00	.9769	0.118732	16844654.92
1300582000	Semiconductor	D9	Bellcore Issue 6	Level I		0.023881	1.00	.1965	0.023881	41874327.58
1300001240	Semiconductor	D1-3	Bellcore Issue 6	Level I		0.023881	3.00	.5894	0.071643	41874327.58
1300414840	Semiconductor	D7-8,D10-14	Bellcore Issue 6	Level I		0.023881	7.00	1.3754	0.167167	41874327.58
1301005440	Semiconductor	D16	Bellcore Issue 6	Level I		0.023881	1.00	.1965	0.023881	41874327.58
1315610710	Semiconductor	Q4,Q10	Bellcore Issue 6	Level I		0.159207	2.00	2.6198	0.318413	6281149.14
1315610710	Semiconductor	Q13	Bellcore Issue 6	Level I	63.30	0.229548	1.00	1.8886	0.229548	4356396.24
1315613710	Semiconductor	Q6	Bellcore Issue 6	Level I	41.40	0.061716	1.00	.5078	0.061716	16203167.61
1315613710	Semiconductor	Q8	Bellcore Issue 6	Level I	41.10	0.061154	1.00	.5031	0.061154	16352130.33
1305099140	Semiconductor	D4-6	Bellcore Issue 6	Level I		0.079603	3.00	1.9648	0.238810	12562298.27
1315065100	Semiconductor	Q7	Bellcore Issue 6	Level I		0.079603	1.00	.6549	0.079603	12562298.27
1315035200	Semiconductor	Q9	Bellcore Issue 6	Level I		0.000000	1.00	.0000	0.000000	.00
1315993310	Semiconductor	Q20	Bellcore Issue 6	Level I		0.159207	1.00	1.3099	0.159207	6281149.14
1315612900	Semiconductor	Q5,Q11-12	Bellcore Issue 6	Level I		0.079603	3.00	1.9648	0.238810	12562298.27



### AAEON Reliability Prediction Report

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**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

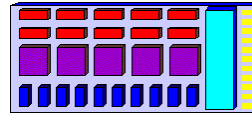


**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1315700210	Semiconductor	Q1,Q17,Q19	Bellcore Issue 6	Level I		0.079603	3.00	1.9648	0.238810	12562298.27
1310390410	Semiconductor	Q2-3,Q15	Bellcore Issue 6	Level I		0.023881	3.00	.5894	0.071643	41874327.58
1310222210	Semiconductor	Q14,Q21-22	Bellcore Issue 6	Level I		0.023881	3.00	.5894	0.071643	41874327.58
1311290710	Semiconductor	Q16,Q18	Bellcore Issue 6	Level I		0.023881	2.00	.3930	0.047762	41874327.58
14S6334610	Integrated Circuit	U21	Bellcore Issue 6	Level I	37.40	0.011687	1.00	.0962	0.011687	85564981.20
14S6334610	Integrated Circuit	U28,U30	Bellcore Issue 6	Level I		0.030598	2.00	.5035	0.061196	32681842.61
14D6340200	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.035172	1.00	.2894	0.035172	28431969.88
14S8416803	Integrated Circuit	U20,U82	Bellcore Issue 6	Level I		0.039296	2.00	.6466	0.078592	25448028.36
14S6200200	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.136173	1.00	1.1204	0.136173	7343591.05
14S5A00600	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.037889	1.00	.3117	0.037889	26392869.26
14S5A00700	Integrated Circuit	U7	Bellcore Issue 6	Level I		0.037889	1.00	.3117	0.037889	26392869.26
14S5A00800	Integrated Circuit	U76	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S5A01421	Integrated Circuit	U32	Bellcore Issue 6	Level I		0.037889	1.00	.3117	0.037889	26392869.26
14S5512500	Integrated Circuit	U11	Bellcore Issue 6	Level I	37.10	0.035055	1.00	.2884	0.035055	28526807.19
14S5324500	Integrated Circuit	U77	Bellcore Issue 6	Level I	41.60	0.044976	1.00	.3700	0.044976	22234281.76
14S5324500	Integrated Circuit	U78	Bellcore Issue 6	Level I	40.40	0.042427	1.00	.3491	0.042427	23569957.45
14S5324500	Integrated Circuit	U79	Bellcore Issue 6	Level I	40.80	0.043262	1.00	.3559	0.043262	23114801.41
14S5324500	Integrated Circuit	U83	Bellcore Issue 6	Level I	37.80	0.037327	1.00	.3071	0.037327	26790611.40
14S5324500	Integrated Circuit	U84	Bellcore Issue 6	Level I	43.30	0.048810	1.00	.4016	0.048810	20487465.69
14S5324500	Integrated Circuit	U80	Bellcore Issue 6	Level I	36.10	0.034284	1.00	.2821	0.034284	29167722.80
14S5324500	Integrated Circuit	U81	Bellcore Issue 6	Level I	40.50	0.042634	1.00	.3508	0.042634	23455215.84
14S5A38400	Integrated Circuit	U5	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S5A05300	Integrated Circuit	U87	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S4650100	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.059366	1.00	.4884	0.059366	16844654.92
14S4653000	Integrated Circuit	U23,U25-26	Bellcore Issue 6	Level I		0.059366	3.00	1.4653	0.178098	16844654.92
14S9055500	Integrated Circuit	U85	Bellcore Issue 6	Level I		0.059366	1.00	.4884	0.059366	16844654.92
14S1488000	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.059366	1.00	.4884	0.059366	16844654.92
14S4048500	Integrated Circuit	U14,U17	Bellcore Issue 6	Level I		0.059366	2.00	.9769	0.118732	16844654.92
14S4021300	Integrated Circuit	U15-16	Bellcore Issue 6	Level I		0.059366	2.00	.9769	0.118732	16844654.92
14S4602100	Integrated Circuit	U34	Bellcore Issue 6	Level I	44.70	0.040004	1.00	.3291	0.040004	24997585.69
14S3020010	Integrated Circuit	U8	Bellcore Issue 6	Level I	40.50	0.028958	1.00	.2383	0.028958	34532384.79

### AAEON Reliability Prediction Report

**Part Number** 9697776008  
**Reference Des**  
**Date** 01. 15, 2002  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** Sbc-776.RPJ  
**Time** 5:38 PM  
**Failure Rate** 12.154318  
**MTBF** 82,275

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4070600	Integrated Circuit	U86	Bellcore Issue 6	Level I		0.059366	1.00	.4884	0.059366	16844654.92
14S3420100	Integrated Circuit	U2	Bellcore Issue 6	Level I	44.00	0.037931	1.00	.3121	0.037931	26363668.04
14S4280100	Integrated Circuit	U4	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S4255901	Integrated Circuit	U22	Bellcore Issue 6	Level I	36.60	0.017224	1.00	.1417	0.017224	58058880.75
14S4281501	Integrated Circuit	U3	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S4080000	Integrated Circuit	U24	Bellcore Issue 6	Level I	47.10	0.033081	1.00	.2722	0.033081	30228721.19
14S4016400	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S2015100	Integrated Circuit	U40	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S4362700	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
14S4362600	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.039296	1.00	.3233	0.039296	25448028.36
1540756080	Resistor	RP1-28	Bellcore Issue 6	Level I		0.006246	28.00	1.4389	0.174888	160102772.00
1540782280	Resistor	RP32-38,RP42,RP54-67,RP69,RP-71-74,RP82,RP86-89	Bellcore Issue 6	Level I		0.006246	32.00	1.6444	0.199872	160102772.00
1540722084	Resistor	RP39	Bellcore Issue 6	Level I		0.006246	1.00	.0514	0.006246	160102772.00
1540710080	Resistor	RP29-31,RP40-41	Bellcore Issue 6	Level I		0.006246	5.00	.2569	0.031230	160102772.00
1540715380	Resistor	RP43-44,RP100	Bellcore Issue 6	Level I		0.006246	3.00	.1542	0.018738	160102772.00
1540747282	Resistor	RP45,RP47-48,RP51-52,RP75-76,-RP78,RP80	Bellcore Issue 6	Level I		0.006246	9.00	.4625	0.056214	160102772.00
1540733082	Resistor	RP46,RP49-50,RP53,RP91-99	Bellcore Issue 6	Level I		0.006246	13.00	.6681	0.081198	160102772.00
1540701380	Resistor	RP68,RP70	Bellcore Issue 6	Level I		0.006246	2.00	.1028	0.012492	160102772.00
1540727280	Resistor	RP77,RP79,RP81,RP83,RP85	Bellcore Issue 6	Level I		0.006246	5.00	.2569	0.031230	160102772.00
1540756280	Resistor	RP84	Bellcore Issue 6	Level I		0.006246	1.00	.0514	0.006246	160102772.00
1653003101	Connection	JP2,JP12	Bellcore Issue 6	Level I		0.001707	2.00	.0281	0.003414	585853513.81
1653205203	Connection	CN9-10,CN15-16	Bellcore Issue 6	Level I		0.005690	4.00	.1872	0.022759	175756054.14
1651584490	Connection	CN3-4	Bellcore Issue 6	Level I		0.095587	2.00	1.5729	0.191174	10461669.89
1653007201	Connection	CN11,JP1	Bellcore Issue 6	Level I		0.007966	2.00	.1311	0.015931	125540038.67
1653213203	Connection	CN14	Bellcore Issue 6	Level I		0.014793	1.00	.1217	0.014793	67598482.36
1655003000	Connection	CN25,CN27	Bellcore Issue 6	Level I		0.001707	2.00	.0281	0.003414	585853513.81
1653003201	Connection	JP3-5,JP8-10,JP4*2	Bellcore Issue 6	Level I		0.003414	7.00	.1966	0.023897	292926756.90
1655005021	Connection	CN31	Bellcore Issue 6	Level I		0.002845	1.00	.0234	0.002845	351512108.28
1653004201	Connection	JP7	Bellcore Issue 6	Level I		0.004552	1.00	.0374	0.004552	219695067.68
1653225200	Connection	CN29	Bellcore Issue 6	Level I		0.028449	1.00	.2341	0.028449	35151210.83

