

# HSB-910I Reliability Prediction Report (MTBF)

Report NO : 08I070014

**12-18-2008**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** HSB-910I

II . **Prediction Date:** Dec. 18, 2008

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

IV . **Predicted by :** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

### VI. Simulation Environment:

- Temperature: 24.5 degree C
- Standard: Telcordia (Bellcore) Standard
- Component Quality Level: Level I
- Duty Cycle: 100%
- Mode: GF, GU - Ground Fixed, Uncontrolled

### VII. 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.

### VIII. Prediction Result:

- HSB-910I
  - Failure Rate: 13.255355 ppm
  - MTBF: 75,441 Hours

### AAEON Reliability Prediction Report

**Part Number** 9697910I04-DIP  
**Reference Des**  
**Date** 12. 18, 2008  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 24.50



**Description** Top-level assembly  
**File Name** HSB-910I.RPJ  
**Time** 4:20 下午  
**Failure Rate** 13.255355  
**MTBF** 75,441

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-HSB-910I-A10-G2	9697910I04-DIP	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	13.255355	75,441

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**Time** 4:20 下午  
**Failure Rate** 13.255355  
**MTBF** 75,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1653925216	Connection	CFD1	Telcordia Issue 1	Level I		0.027714	1.00	.2091	0.027714	36083294.99
1129701690	Capacitor	BC1,BC10,BC100, BC101,BC102,BC103, BC104,BC105,BC106, BC107,BC108,BC109, BC11,BC111,BC112, BC113,BC114,BC115, BC116,BC117,BC118, BC119,BC120,BC121, BC122,BC123,BC124, BC125,BC126,BC128, BC13,BC130,BC132, BC133,BC135,BC136, BC138,BC139,BC1	Telcordia Issue 1	Level I		0.004491	264.00	8.9447	1.185656	222661581.45
1121501680	Capacitor	BC243,BC244,BC245, BC246,BC247,BC248, BC249,BC250,BC251, BC252,BC308,BC309, BC310,BC311,BC312, BC313,BC314,BC315, BC316,BC317,BC318, BC319,BC320,BC321, BC322,BC323,BC324, BC325,BC326,BC327, BC328,BC329,BC330, BC331,BC332,BC333, BC334,BC335	Telcordia Issue 1	Level I		0.005448	38.00	1.5617	0.207015	183561217.48
175910000A	Miscellaneous	BZ1	Telcordia Issue 1	Level I		0.150000	1.00	1.1316	0.150000	6666666.67
1189610189	Capacitor	CA2,CA3	Telcordia Issue 1	Level I		0.004491	2.00	.0678	0.008982	222661581.45
1654030003	Connection	CN7	Telcordia Issue 1	Level I		0.016628	1.00	.1254	0.016628	60138824.98
1174518180	Capacitor	CP1,CP2,CP3,CP4	Telcordia Issue 1	Level I		0.005448	4.00	.1644	0.021791	183561217.48
1174510180	Capacitor	CP5,CP6,CP7,CP8	Telcordia Issue 1	Level I		0.005448	4.00	.1644	0.021791	183561217.48
11E9501091	Capacitor	C1,C135,C141,C143, C150,C160,C175, C178,C179,C193	Telcordia Issue 1	Level I		0.004491	10.00	.3388	0.044911	222661581.45
1129701791	Capacitor	C10,C11,C12,C13, C14,C15,C19,C192, C194,C2,C23,C24, C25,C26,C31,C5,C6, C9	Telcordia Issue 1	Level I		0.004491	18.00	.6099	0.080840	222661581.45
1129710390	Capacitor	C133,C21,C27,C29, C3,C4	Telcordia Issue 1	Level I		0.004491	6.00	.2033	0.026947	222661581.45

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1189633160	Capacitor	C132,C148,C157, C161,C162,C44,C54, C7,C70,C82,C83,C85	Telcordia Issue 1	Level I		0.004491	12.00	.4066	0.053893	222661581.45
11E9647680	Capacitor	C138,C163,C189,C30, C78,C8	Telcordia Issue 1	Level I		0.004491	6.00	.2033	0.026947	222661581.45
1121533480	Capacitor	C18	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1189633181	Capacitor	C1008,C28,C55,C56	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
1124727380	Capacitor	C32	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1124556180	Capacitor	C34	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
118961018A	Capacitor	C158,C35,C48,C69	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
1189610180	Capacitor	C1006,C131,C134, C37	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
1124522290	Capacitor	C116,C137,C142,C43	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
1124433090	Capacitor	C210,C64,C65	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
11A4415080	Capacitor	C67,C77	Telcordia Issue 1	Level I		0.004491	2.00	.0678	0.008982	222661581.45
1189622190	Capacitor	C76,C84,C89	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
1129710091	Capacitor	C203,C86,C92,C94, C95,C97,C98	Telcordia Issue 1	Level I		0.004491	7.00	.2372	0.031438	222661581.45
1129722091	Capacitor	C87,C93,C96	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
1124427090	Capacitor	C118,C119	Telcordia Issue 1	Level I		0.004491	2.00	.0678	0.008982	222661581.45
1129647650	Capacitor	C1026,C129	Telcordia Issue 1	Level I		0.004491	2.00	.0678	0.008982	222661581.45
1122722780	Capacitor	C104,C113,C165	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
1124447180	Capacitor	C140	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1124501780	Capacitor	C1018,C114,C180	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
11B9747490	Capacitor	C115,C136,C196	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
11E9622050	Capacitor	C1019,C1020,C1021, C1022,C117,C121, C191,C205,C206, C207,TC1012,TC1017	Telcordia Issue 1	Level I		0.004491	12.00	.4066	0.053893	222661581.45
1129747091	Capacitor	C122,C123,C124, C125	Telcordia Issue 1			0.001497	4.00	.0452	0.005988	667984744.36
1189647184	Capacitor	C126	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1129722060	Capacitor	C1023,C1024,C1025, C128,C208,C209	Telcordia Issue 1	Level I		0.004491	6.00	.2033	0.026947	222661581.45
1124547190	Capacitor	C130	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1124518280	Capacitor	C145	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45
1121415090	Capacitor	C146	Telcordia Issue 1	Level I		0.004491	1.00	.0339	0.004491	222661581.45

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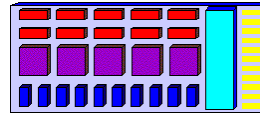


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**Time** 4:20 下午  
**Failure Rate** 13.255355  
**MTBF** 75,441

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1189647180	Capacitor	C156,C171,C177, C200	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
1189615187	Capacitor	C172	Telcordia Issue 1	Level I	21.70	0.006684	1.00	.0504	0.006684	149606654.43
1189615187	Capacitor	C166,C173,C174	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45
1124522881	Capacitor	C176,C181,C182, C187,C188,C195, C198	Telcordia Issue 1	Level I		0.004491	7.00	.2372	0.031438	222661581.45
1300283540	Semiconductor	DD1	Telcordia Issue 1	Level I		0.023540	1.00	.1776	0.023540	42481426.42
16515A0996	Connection	DIMM1	Telcordia Issue 1	Level I		0.110855	1.00	.8363	0.110855	9020823.75
16515A0997	Connection	DIMM2	Telcordia Issue 1	Level I		0.110855	1.00	.8363	0.110855	9020823.75
1301005444	Semiconductor	D1,D17,D18,D3,D4, D6	Telcordia Issue 1	Level I		0.023540	6.00	1.0655	0.141238	42481426.42
1301005440	Semiconductor	D1000,D1001,D1002, D14,D5,D7	Telcordia Issue 1	Level I		0.023540	6.00	1.0655	0.141238	42481426.42
1300001440	Semiconductor	D12,D9	Telcordia Issue 1	Level I		0.023540	2.00	.3552	0.047079	42481426.42
1301003440	Semiconductor	D10,D16,D2	Telcordia Issue 1	Level I		0.023540	3.00	.5328	0.070619	42481426.42
1301005442	Semiconductor	D11	Telcordia Issue 1	Level I		0.023540	1.00	.1776	0.023540	42481426.42
1300414843	Semiconductor	D13	Telcordia Issue 1	Level I		0.023540	1.00	.1776	0.023540	42481426.42
1300560040	Integrated Circuit	D15	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
1301003240	Semiconductor	D19	Telcordia Issue 1	Level I		0.023540	1.00	.1776	0.023540	42481426.42
121230805L	Inductor	FB1,FB14,FB15,FB16, FB17,FB18,FB19, FB23,FB24,FB25,FB9	Telcordia Issue 1	Level I		0.002246	11.00	.1863	0.024701	445323162.91
12123C0005	Inductor	FB2,FB3,FB4,FB5, FB6,FB7	Telcordia Issue 1	Level I		0.002246	6.00	.1016	0.013473	445323162.91
1212306030	Inductor	FB8,L13,L14,L18	Telcordia Issue 1	Level I		0.002246	4.00	.0678	0.008982	445323162.91
121230603L	Inductor	FB10,FB11,FB12, FB13	Telcordia Issue 1	Level I		0.002246	4.00	.0678	0.008982	445323162.91
1304101340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		0.004658	2.00	.0703	0.009316	214673290.66
1211000180	Inductor	L4	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
1214309006	Inductor	L2,L5,L6,L7,L9	Telcordia Issue 1	Level I		0.002246	5.00	.0847	0.011228	445323162.91
121110156A	Inductor	L3	Telcordia Issue 1	Level I		0.085331	1.00	.6437	0.085331	11719030.60
121110336L	Inductor	L8	Telcordia Issue 1	Level I		0.085331	1.00	.6437	0.085331	11719030.60
1211106802	Inductor	L10	Telcordia Issue 1	Level I		0.085331	1.00	.6437	0.085331	11719030.60
121230805Z	Inductor	L11,L15	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
1211101002	Inductor	L12,L26	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
1211100109	Inductor	L16,L19,L20,L21, L22	Telcordia Issue 1	Level I		0.002246	5.00	.0847	0.011228	445323162.91
1211100161	Inductor	L17	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91

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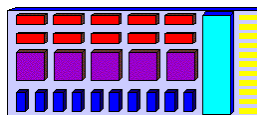


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**File Name** HSB-910I.RPJ  
**Time** 4:20 下午  
**Failure Rate** 13.255355  
**MTBF** 75,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
121230603Z	Inductor	L24	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
1752310000	Miscellaneous	P1,P2	Telcordia Issue 1	Level I		0.003000	2.00	.0453	0.006000	333333333.33
1310390411	Semiconductor	Q1,Q2	Telcordia Issue 1	Level I		0.023540	2.00	.3552	0.047079	42481426.42
1315700211	Semiconductor	Q10,Q1000,Q1001, Q1002,Q1004,Q1005, Q1006,Q1007,Q1010, Q12,Q13,Q15,Q21, Q23,Q3,Q4,Q7,Q8	Telcordia Issue 1	Level I		0.078466	18.00	10.6552	1.412382	12744427.92
1315700310	Semiconductor	Q16,Q18,Q5,Q6	Telcordia Issue 1	Level I		0.078466	4.00	2.3678	0.313863	12744427.92
1315030210	Semiconductor	Q11	Telcordia Issue 1	Level I		0.078466	1.00	.5920	0.078466	12744427.92
1315669000	Semiconductor	Q14,Q17,Q19,Q22	Telcordia Issue 1	Level I		0.078466	4.00	2.3678	0.313863	12744427.92
1315600311	Semiconductor	Q20	Telcordia Issue 1	Level I		0.156931	1.00	1.1839	0.156931	6372213.96
1315668012	Semiconductor	Q24,Q26	Telcordia Issue 1	Level I		0.023540	2.00	.3552	0.047079	42481426.42
1315889611	Semiconductor	Q25,Q27	Telcordia Issue 1	Level I		0.078466	2.00	1.1839	0.156931	12744427.92
1305099140	Semiconductor	Q28,Q29	Telcordia Issue 1	Level I		0.078466	2.00	1.1839	0.156931	12744427.92
1311390610	Semiconductor	Q30	Telcordia Issue 1	Level I		0.023540	1.00	.1776	0.023540	42481426.42
1311006910	Semiconductor	Q1008,Q1009,Q34, Q35	Telcordia Issue 1	Level I		0.023540	4.00	.7103	0.094159	42481426.42
1315230300	Semiconductor	Q36	Telcordia Issue 1	Level I		0.078466	1.00	.5920	0.078466	12744427.92
1540701380	Resistor	RN1	Telcordia Issue 1	Level I		0.006105	1.00	.0461	0.006105	163811358.98
1540700080	Resistor	RN11,RN12,RN2,RN26, RN27,RN3,RN4	Telcordia Issue 1	Level I		0.012209	7.00	.6448	0.085464	81905679.49
1540782280	Resistor	RN16,RN17,RN18, RN19,RN20,RN21, RN22,RN23,RN24,RN6, RN7,RN9	Telcordia Issue 1	Level I		0.006105	12.00	.5526	0.073255	163811358.98
1540747282	Resistor	RN10,RN25	Telcordia Issue 1	Level I		0.006105	2.00	.0921	0.012209	163811358.98
106B501031	Resistor	RT1,RT2,RT3	Telcordia Issue 1	Level I		0.011085	3.00	.2509	0.033256	90208237.48
105A733009	Resistor	R1,R21,R3,R305, R399,R420,R432, R632,R638,R639	Telcordia Issue 1	Level I		0.002246	10.00	.1694	0.022456	445323162.91
105A701039	Resistor	R1009,R1010,R121, R122,R177,R2,R232, R261,R270,R311, R325,R336,R421, R425,R440,R449, R454,R473,R474, R501,R508,R52,R522, R544,R77	Telcordia Issue 1	Level I		0.002246	25.00	.4235	0.056139	445323162.91

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105A510009	Resistor	R179,R180,R181, R200,R235,R246, R249,R253,R4, R428, R559	Telcordia Issue 1	Level I		0.002246	11.00	.1863	0.024701	445323162.91
105A700009	Resistor	R10,R105,R106,R192, R194,R205,R207, R237,R254,R259, R262,R277, R285, R306,R396,R492, R500,R503,R506, R514,R515,R519, R520,R534, R541, R554,R555,R587, R612,R628, R7, R80	Telcordia Issue 1	Level I		0.002246	32.00	.5421	0.071858	445323162.91
105A500139	Resistor	R100,R101,R16,R195, R20,R201,R202,R275, R286,R302,R303, R386,R387, R416, R417,R433,R436, R511,R533,R566, R585,R604, R605, R645,R646, R647, R8	Telcordia Issue 1	Level I		0.002246	27.00	.4574	0.060630	445323162.91
105A710039	Resistor	R1004,R1006,R1008, R435,R9	Telcordia Issue 1	Level I		0.002246	5.00	.0847	0.011228	445323162.91
105A502039	Resistor	R12,R13,R51,R56	Telcordia Issue 1	Level I		0.002246	4.00	.0678	0.008982	445323162.91
105A533223	Resistor	R14	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A504763	Resistor	R17,R18,R57	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A547033	Resistor	R19,R434,R445	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A756033	Resistor	R22,R437,R444	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A702263	Resistor	R23,R26,R31,R443, R50,R61,R73	Telcordia Issue 1	Level I		0.002246	7.00	.1186	0.015719	445323162.91
105A501033	Resistor	R1026,R1038,R1041, R1042,R1054,R1055, R1056,R126,R24, R361,R392, R470, R482,R488, R526, R531,R562, R563, R564,R591, R592, R614, R616	Telcordia Issue 1	Level I		0.002246	23.00	.3896	0.051648	445323162.91
105A522033	Resistor	R25	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A560423	Resistor	R27	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A504723	Resistor	R28,R469,R620,R626	Telcordia Issue 1	Level I		0.002246	4.00	.0678	0.008982	445323162.91









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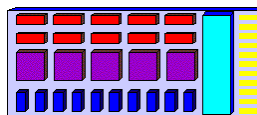


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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1050502224	Resistor	R337,R338,R339, R351,R532,R542, R590,R599	Telcordia Issue 1	Level I		0.002246	8.00	.1355	0.017964	445323162.91
105A515009	Resistor	R341,R342,R367, R368,R594	Telcordia Issue 1	Level I		0.002246	5.00	.0847	0.011228	445323162.91
105A504703	Resistor	R1034,R1044,R1051, R335,R354,R384	Telcordia Issue 1	Level I		0.002246	6.00	.1016	0.013473	445323162.91
105A505603	Resistor	R371,R380,R382	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A568003	Resistor	R375	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A539263	Resistor	R378	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
1050547004	Resistor	R426,R510	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
1050502204	Resistor	R431	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A506829	Resistor	R439,R450	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
105A718033	Resistor	R442	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A701009	Resistor	R447,R458,R558	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A503039	Resistor	R448	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A506823	Resistor	R451	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A501623	Resistor	R453	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
1059702261	Resistor	R455	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A510513	Resistor	R466	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A580663	Resistor	R495,R496	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
105A505173	Resistor	R543	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A502200	Resistor	R1032,R560	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
105A501529	Resistor	R580,R581	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
105A535713	Resistor	R108,R582,R583	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A501523	Resistor	R1068,R584	Telcordia Issue 1	Level I		0.002246	2.00	.0339	0.004491	445323162.91
105A702239	Resistor	R588	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A525503	Resistor	R595	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
105A549913	Resistor	R1031,R1061,R1063, R364,R574,R575, R596	Telcordia Issue 1	Level I		0.002246	7.00	.1186	0.015719	445323162.91
105A510033	Resistor	R54,R618,R652	Telcordia Issue 1	Level I		0.002246	3.00	.0508	0.006737	445323162.91
105A730009	Resistor	R648	Telcordia Issue 1	Level I		0.002246	1.00	.0169	0.002246	445323162.91
1129610080	Capacitor	TC1,TC48	Telcordia Issue 1	Level I		0.004491	2.00	.0678	0.008982	222661581.45
11C2510190	Capacitor	TC2,TC31,TC32	Telcordia Issue 1	Level I		0.004491	3.00	.1016	0.013473	222661581.45

### AAEON Reliability Prediction Report

**Part Number** 9697910I04-DIP  
**Reference Des**  
**Date** 12. 18, 2008  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 24.50



**Description** Top-level assembly  
**File Name** HSB-910I.RPJ  
**Time** 4:20 下午  
**Failure Rate** 13.255355  
**MTBF** 75,441

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129610051	Capacitor	C1007,C1009,TC10, TC1000,TC1001, TC1002,TC1003, TC1004,TC1005, TC1006,TC1007, TC1008,TC1009, TC1010,TC1011, TC1013,TC1014, TC1015,TC1016,TC11, TC12,TC13,TC14, TC18,TC19,TC20, TC21,TC25,TC26,TC3, TC30,TC33,TC34,	Telcordia Issue 1	Level I		0.004491	68.00	2.3039	0.305396	222661581.45
11B2710060	Capacitor	TC16,TC17,TC27, TC28	Telcordia Issue 1	Level I		0.004491	4.00	.1355	0.017964	222661581.45
14S2264200	Integrated Circuit	U2	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S4291000	Integrated Circuit	U3	Telcordia Issue 1	Level I	24.50	0.096621	1.00	.7289	0.096621	10349712.20
14S4653700	Integrated Circuit	U4	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S4621800	Integrated Circuit	U5	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S4021301	Integrated Circuit	U1002,U1003,U31,U6	Telcordia Issue 1	Level I		0.057230	4.00	1.7270	0.228921	17473277.64
14S4121601	Integrated Circuit	U7	Telcordia Issue 1	Level I		0.025423	1.00	.1918	0.025423	39334574.39
1651203291	Connection	U8	Telcordia Issue 1	Level I		0.017737	1.00	.1338	0.017737	56380148.42
14S3420600	Integrated Circuit	U9	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S3128421	Integrated Circuit	U11	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S428010B	Integrated Circuit	U14	Telcordia Issue 1	Level I		0.025423	1.00	.1918	0.025423	39334574.39
14S2200900	Integrated Circuit	U15	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S4060002	Integrated Circuit	U16	Telcordia Issue 1	Level I	21.80	0.084243	1.00	.6355	0.084243	11870441.68
14S4825740	Integrated Circuit	U18,U50	Telcordia Issue 1	Level I		0.025423	2.00	.3836	0.050846	39334574.39
14S1032403	Integrated Circuit	U19	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S4888801	Integrated Circuit	U20	Telcordia Issue 1	Level I		0.025423	1.00	.1918	0.025423	39334574.39
14S9103200	Integrated Circuit	U21	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
14S5A01430	Integrated Circuit	U44	Telcordia Issue 1	Level I	21.80	0.084243	1.00	.6355	0.084243	11870441.68
14S5A01430	Integrated Circuit	U22	Telcordia Issue 1	Level I		0.025423	1.00	.1918	0.025423	39334574.39
14S4070610	Integrated Circuit	U25	Telcordia Issue 1	Level I		0.057230	1.00	.4318	0.057230	17473277.64
1315970110	Semiconductor	U27	Telcordia Issue 1	Level I	10.90	0.212516	1.00	1.6032	0.212516	4705532.70



