

HSB-945P Reliability Prediction Report (MTBF)

Report NO : 09I070013

10-22-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** HSB-945P (9697945P05-D)

II . **Prediction Date:** Oct. 22, 2009

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: 25.6 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

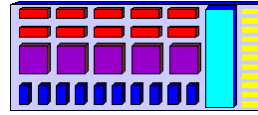
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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-945P(9697945P05-D):
Failure Rate: 11.952826 ppm
MTBF: 83,662 Hours

AAEON Reliability Prediction Report

Part Number 9697945P05-D
Reference Des
Date 10. 22, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name HSB-945P-G2-A11.RPJ
Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
HSB-945P-G2-A11	9697945P05-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	11.95	83662.22

AAEON Reliability Prediction Report

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Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124427091	Capacitor	C13,C137,C143,C144, C146,C148,C149,C15, C153,C158,C159,C33, C34	Telcordia Issue 1	Level I		13.00	0.004589	.4991	217915067.83
11E2647650	Capacitor	C101,C178,C19,C43, C50	Telcordia Issue 1	Level I		5.00	0.004589	.1920	217915067.83
1129722680	Capacitor	C176,C26,C65,C67, C69,C82,C84,C85, C86	Telcordia Issue 1	Level I		9.00	0.004589	.3455	217915067.83
11B9747490	Capacitor	C173,C28,C35,C36	Telcordia Issue 1	Level I		4.00	0.004589	.1536	217915067.83
1129710090	Capacitor	C118,C119,C132, C135,C145,C152,C29, C30,C32	Telcordia Issue 1	Level I		9.00	0.004589	.3455	217915067.83
1129722060	Capacitor	C180,C181,C44,C64, C95	Telcordia Issue 1	Level I		5.00	0.004589	.1920	217915067.83
1121722780	Capacitor	C45	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
1124515880	Capacitor	C48	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
1124418190	Capacitor	C51	Telcordia Issue 1	Level I		1.00	0.005487	.0459	182247502.99
1121701080	Capacitor	C57,C98	Telcordia Issue 1	Level I		2.00	0.004589	.0768	217915067.83
1122622660	Capacitor	C61	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
1124556180	Capacitor	C62	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
1122522890	Capacitor	C162,C70,C71	Telcordia Issue 1	Level I		3.00	0.004589	.1152	217915067.83
1124547180	Capacitor	C72	Telcordia Issue 1	Level I		1.00	0.005487	.0459	182247502.99
11C2539290	Capacitor	C74,C75,C79,C83, C90,C92,C94,C96	Telcordia Issue 1	Level I		8.00	0.004589	.3071	217915067.83
11E9647680	Capacitor	C104,C106,C129, C130,C147,C150, C161,C166,C81	Telcordia Issue 1	Level I		9.00	0.004589	.3455	217915067.83
1124412080	Capacitor	C93	Telcordia Issue 1	Level I		1.00	0.005487	.0459	182247502.99
1124433090	Capacitor	C102,C103	Telcordia Issue 1	Level I		2.00	0.004589	.0768	217915067.83
1189647180	Capacitor	C142,C156	Telcordia Issue 1	Level I		2.00	0.004589	.0768	217915067.83
11C9512780	Capacitor	C184	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
1124582880	Capacitor	C185	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
16515A0997	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.117411	.9823	8517094.28
1301005442	Semiconductor	D1,D5	Telcordia Issue 1	Level I		2.00	0.024296	.4065	41159868.85
1300414844	Semiconductor	D14,D2,D3	Telcordia Issue 1	Level I		3.00	0.024296	.6098	41159868.85
1301005440	Semiconductor	D10,D12,D4	Telcordia Issue 1	Level I		3.00	0.024296	.6098	41159868.85
1300001440	Semiconductor	D6,D7	Telcordia Issue 1	Level I		2.00	0.024296	.4065	41159868.85
1300283540	Semiconductor	D8	Telcordia Issue 1	Level I		1.00	0.024296	.2033	41159868.85
1300581940	Semiconductor	D9	Telcordia Issue 1	Level I		1.00	0.080985	.6775	12347960.65
1301003440	Semiconductor	D11	Telcordia Issue 1	Level I		1.00	0.024296	.2033	41159868.85
1301053040	Semiconductor	D13	Telcordia Issue 1	Level I		1.00	0.024296	.2033	41159868.85
121230603H	Inductor	FB11,FB12,FB13, FB19,FB5,FB6,FB8, FB9	Telcordia Issue 1	Level I		8.00	0.002294	.1536	435830135.66

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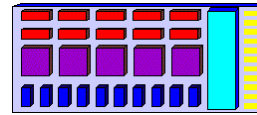


Description Top-level assembly
File Name HSB-945P-G2-A11.RPJ
Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
121230805Z	Inductor	FB18,FB2,FB3,FB30	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
1059700001	Resistor	FB16,FB17,FB4,R277, R278,R286,R313, R381,R418,R449	Telcordia Issue 1	Level I		10.00	0.002294	.1920	435830135.66
1212308054	Inductor	FB10,FB20,FB21,FB7	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
1212306033	Inductor	FB22,FB23,FB24, FB25,FB27,FB28, FB29	Telcordia Issue 1	Level I		7.00	0.002294	.1344	435830135.66
1752310000	Miscellaneous	FS1,FS3,FS4	Telcordia Issue 1	Level I		3.00	0.003000	.0753	333333333.33
1752001601	Miscellaneous	FS2,FS5	Telcordia Issue 1	Level I		2.00	0.003000	.0502	333333333.33
1214309006	Inductor	L1,L2,L3,L4,L5	Telcordia Issue 1	Level I		5.00	0.002294	.0960	435830135.66
1211101005	Inductor	L8	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
121110010P	Inductor	L11,L12	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
1211101002	Inductor	L13,L14	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
1315668012	Semiconductor	Q1,Q2,Q44	Telcordia Issue 1	Level I		3.00	0.024296	.6098	41159868.85
1310390411	Semiconductor	Q16,Q17,Q31,Q4,Q46	Telcordia Issue 1	Level I		5.00	0.024296	1.0163	41159868.85
1315700211	Semiconductor	Q18,Q19,Q20,Q21, Q23,Q3,Q30,Q32,Q34, Q35,Q37,Q39,Q40, Q42,Q43,Q5,Q6,Q7, Q8,Q9	Telcordia Issue 1	Level I		20.00	0.080985	13.5508	12347960.65
1311390610	Semiconductor	Q10,Q36	Telcordia Issue 1	Level I		2.00	0.024296	.4065	41159868.85
1311138610	Semiconductor	Q11,Q14,Q22,Q24	Telcordia Issue 1	Level I		4.00	0.024296	.8130	41159868.85
1315313800	Semiconductor	Q25	Telcordia Issue 1	Level I		1.00	0.080985	.6775	12347960.65
1315889611	Semiconductor	Q27	Telcordia Issue 1	Level I		1.00	0.080985	.6775	12347960.65
1315889611	Semiconductor	Q33	Telcordia Issue 1	Level I	16.80	1.00	0.127681	1.0682	7831989.15
1315230111	Semiconductor	Q28	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
14S3524700	Integrated Circuit	Q29	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
1305099140	Semiconductor	Q38,Q41	Telcordia Issue 1	Level I		2.00	0.080985	1.3551	12347960.65
1315030110	Semiconductor	Q45	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1540701380	Resistor	RN2	Telcordia Issue 1	Level I		1.00	0.006419	.0537	155778892.99
105A703323	Resistor	RS2(1-2)	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
106B701032	Resistor	RT1,RT3,RT4,RT5	Telcordia Issue 1	Level I		4.00	0.011741	.3929	85170942.79
106B747030	Resistor	RT2	Telcordia Issue 1	Level I		1.00	0.011741	.0982	85170942.79
1059500131	Resistor	R1	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66

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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name HSB-945P-G2-A11.RPJ
Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	R104,R111,R121, R134,R152,R154, R155,R161,R164, R165,R197,R2,R200, R201,R206,R209, R221,R225,R228, R255,R256,R258, R262,R268,R271, R275,R282,R287, R294,R30,R309,R310, R315,R32,R320,R342, R348,R377,R388, R399,R401,R411,	Telcordia Issue 1	Level I		78.00	0.002294	1.4973	435830135.66
105A756033	Resistor	R17,R397,R4	Telcordia Issue 1	Level I		3.00	0.002294	.0576	435830135.66
105A701039	Resistor	R103,R106,R11,R156, R160,R163,R166, R178,R185,R186, R196,R204,R215, R217,R220,R230, R231,R233,R251, R252,R253,R261, R264,R394,R405,R5, R524,R545,R557, R591,R632,R633, R636,R637,R640, R648	Telcordia Issue 1	Level I		36.00	0.002294	.6911	435830135.66
105A747033	Resistor	R19,R392,R7	Telcordia Issue 1	Level I		3.00	0.002294	.0576	435830135.66
105A733009	Resistor	R14,R266,R565,R8	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A704729	Resistor	R10,R139,R144,R145, R167,R168,R173, R177,R227,R273, R279,R28,R322,R33, R34,R350,R351,R352, R353,R354,R355, R356,R357,R36,R38, R387,R390,R391,R49, R55,R572,R583,R600, R66,R666,R668,R671, R677,R678,R681, R689,R77,R78,R80, R89	Telcordia Issue 1	Level I		45.00	0.002294	.8638	435830135.66
105A700003	Resistor	FB1,FB15,R12,R223, R260,R270,R319, R323,R341,R379, R690,RS1(1-2)	Telcordia Issue 1	Level I		12.00	0.002294	.2304	435830135.66

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R141,R159,R175, R195,R208,R216, R229,R244,R254,R26, R289,R29,R316,R359, R360,R361,R410, R417,R444,R447, R497,R50,R619,R651, R655,R70,R90	Telcordia Issue 1	Level I		27.00	0.002294	.5183	435830135.66
105A747009	Resistor	R39,R44	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A705139	Resistor	R358,R43,R46,R47, R48	Telcordia Issue 1	Level I		5.00	0.002294	.0960	435830135.66
105A703329	Resistor	R135,R138,R142, R457,R491,R61,R64	Telcordia Issue 1	Level I		7.00	0.002294	.1344	435830135.66
105A710039	Resistor	R269,R539,R645,R73, R83	Telcordia Issue 1	Level I		5.00	0.002294	.0960	435830135.66
105A703309	Resistor	R126,R181,R202, R403,R412,R438, R439,R440,R441, R445,R452,R453, R459,R460,R463, R464,R466,R467, R468,R469,R470, R471,R472,R475, R476,R477,R478, R479,R615,R79	Telcordia Issue 1	Level I		30.00	0.002294	.5759	435830135.66
105A701053	Resistor	R533,R93	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A549969	Resistor	R100,R107,R112, R114,R122,R123,R95, R98	Telcordia Issue 1	Level I		8.00	0.002294	.1536	435830135.66
105A501039	Resistor	R108,R109,R110, R431,R432,R433, R465,R513,R97	Telcordia Issue 1	Level I		9.00	0.002294	.1728	435830135.66
105A715009	Resistor	R115,R190,R191, R224	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A708229	Resistor	R124,R147,R157, R169,R170,R171, R174,R187,R188, R236,R237,R239, R240,R241,R242, R243,R245,R246, R247,R248,R249, R250,R340,R383, R385,R402,R481, R483,R484,R493, R501,R506,R507, R515,R551,R605, R606,R607,R608,	Telcordia Issue 1	Level I		47.00	0.002294	.9022	435830135.66
105A549913	Resistor	R129	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66

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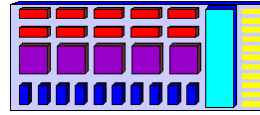


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105A580663	Resistor	R131,R132	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A705609	Resistor	R150,R285,R288, R302,R307,R327, R328,R329,R330, R331,R332,R333, R334,R335,R336, R337,R338,R339, R362,R363,R364, R365,R366,R367, R368,R369,R370, R371,R372,R373, R374,R500,R510, R561,R562,R564, R579,R584,R597,	Telcordia Issue 1	Level I		40.00	0.002294	.7678	435830135.66
105A554969	Resistor	R172,R205,R211, R508	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A524963	Resistor	R176,R502,R509, R532,R621,R629	Telcordia Issue 1	Level I		6.00	0.002294	.1152	435830135.66
105A522103	Resistor	R179,R620	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A500239	Resistor	R180,R518,R525, R527,R617	Telcordia Issue 1	Level I		5.00	0.002294	.0960	435830135.66
1050502224	Resistor	R182,R184	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A501223	Resistor	R183	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A510009	Resistor	R189,R232,R503, R528,R543,R544, R549,R596,R618, R647	Telcordia Issue 1	Level I		10.00	0.002294	.1920	435830135.66
105A549919	Resistor	R192,R193,R219, R305	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A527469	Resistor	R207,R496	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A522663	Resistor	R210	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A702263	Resistor	R214,R280,R318, R663	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A514733	Resistor	R265	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A702209	Resistor	R267,R534,R540, R556,R573,R602	Telcordia Issue 1	Level I		6.00	0.002294	.1152	435830135.66
105A506803	Resistor	R603	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A540213	Resistor	R281	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A702039	Resistor	R284	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A500139	Resistor	R291,R314,R325, R514,R519,R520, R522,R552,R558, R569,R580,R585	Telcordia Issue 1	Level I		12.00	0.002294	.2304	435830135.66
105A702269	Resistor	R292	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A568113	Resistor	R293	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66

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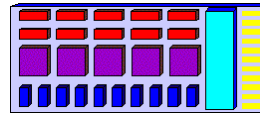


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Time 2:16 下午
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701003	Resistor	R295,R304,R631	Telcordia Issue 1	Level I		3.00	0.002294	.0576	435830135.66
1050537434	Resistor	R298	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A504763	Resistor	R301,R312	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A522113	Resistor	R303	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A752323	Resistor	R306	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1050501004	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1050512104	Resistor	R317	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1050520004	Resistor	R321,R616	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A501529	Resistor	R324,R555	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A500133	Resistor	R380,R430	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A500233	Resistor	R404,R420	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A515813	Resistor	R409	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A701033	Resistor	R416,R419	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A531613	Resistor	R450	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A517813	Resistor	R448	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A506829	Resistor	R434,R436,R535, R541	Telcordia Issue 1	Level I		4.00	0.002294	.0768	435830135.66
105A503039	Resistor	R435	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A702229	Resistor	R442,R446,R490, R574,R581,R623, R641,R642	Telcordia Issue 1	Level I		8.00	0.002294	.1536	435830135.66
1059704761	Resistor	R451	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A702033	Resistor	R455	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A701069	Resistor	R458,R529	Telcordia Issue 1	Level I		2.00	0.013767	.2304	72638355.94
105A704709	Resistor	R462,R486,R492, R650,R653,R656, R661	Telcordia Issue 1	Level I		7.00	0.002294	.1344	435830135.66
1050512164	Resistor	R473,R474,R487, R488,R489	Telcordia Issue 1	Level I		5.00	0.002294	.0960	435830135.66
105A515009	Resistor	R530,R536,R577, R594,R599,R601	Telcordia Issue 1	Level I		6.00	0.002294	.1152	435830135.66
105A507509	Resistor	R531,R537,R576	Telcordia Issue 1	Level I		3.00	0.002294	.0576	435830135.66
105A703909	Resistor	R630,R634	Telcordia Issue 1	Level I		2.00	0.002294	.0384	435830135.66
105A533233	Resistor	R553	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A525503	Resistor	R570	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1050700002	Resistor	R644	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A563413	Resistor	R669	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A700103	Resistor	R670	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A576813	Resistor	R672	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A535713	Resistor	R679	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
105A545313	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66

AAEON Reliability Prediction Report

Part Number 9697945P05-D
Reference Des
Date 10. 22, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60

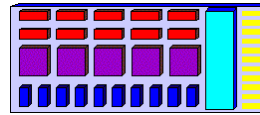


Description Top-level assembly
File Name HSB-945P-G2-A11.RPJ
Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1129610051	Capacitor	TC1,TC10,TC11,TC12,TC13,TC14,TC15,TC16,TC17,TC18,TC19,TC2,TC20,TC21,TC22,TC23,TC24,TC26,TC27,TC28,TC29,TC3,TC30,TC31,TC32,TC33,TC34,TC35,TC36,TC37,TC38,TC39,TC4,TC40,TC41,TC42,TC43,TC44,TC45,TC46,TC47,TC48,TC49,	Telcordia Issue 1	Level I		70.00	0.004589	2.6874	217915067.83
1122710091	Capacitor	TC25	Telcordia Issue 1	Level I		1.00	0.004589	.0384	217915067.83
14S4021301	Integrated Circuit	U1	Telcordia Issue 1	Level I	15.00	1.00	0.175595	1.4691	5694921.04
14S5A23200	Integrated Circuit	U2	Telcordia Issue 1	Level I	24.00	1.00	0.099579	.8331	10042292.16
14S5A23200	Integrated Circuit	U23	Telcordia Issue 1	Level I	22.40	1.00	0.091862	.7685	10885861.88
14S5A23200	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S9080901	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S4121601	Integrated Circuit	U5	Telcordia Issue 1	Level I	15.70	1.00	0.064949	.5434	15396595.12
14S4081110	Integrated Circuit	U43,U6,U7	Telcordia Issue 1	Level I		3.00	0.062024	1.5567	16122698.68
14S4825730	Integrated Circuit	U8	Telcordia Issue 1	Level I	17.20	1.00	0.070281	.5880	14228584.17
14S4730701	Integrated Circuit	U10	Telcordia Issue 1	Level I	17.60	1.00	0.208204	1.7419	4802971.35
14S4294503	Integrated Circuit	U11	Telcordia Issue 1	Level I	20.30	1.00	0.082533	.6905	12116386.07
14S4160020	Integrated Circuit	U12	Telcordia Issue 1	Level I	20.70	1.00	0.084243	.7048	11870439.36
14S428010D	Integrated Circuit	U13	Telcordia Issue 1	Level I	25.40	1.00	0.106791	.8934	9364085.62
14S6201601	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.176543	1.4770	5664358.17
14S4825740	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S3626100	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S9661200	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S4048502	Integrated Circuit	U19,U24	Telcordia Issue 1	Level I		2.00	0.062024	1.0378	16122698.68
1315344310	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
1314108412	Integrated Circuit	U22	Telcordia Issue 1	Level I	18.30	1.00	0.217871	1.8228	4589869.32
14S2750100	Integrated Circuit	U26	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S3128421	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S5A12506	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S5812502	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S4871204	Integrated Circuit	U31	Telcordia Issue 1	Level I	18.40	1.00	0.074820	.6260	13365490.08

AAEON Reliability Prediction Report

Part Number 9697945P05-D
Reference Des
Date 10. 22, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name HSB-945P-G2-A11.RPJ
Time 2:16 下午
Failure Rate 11.952826
MTBF 83,662

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5A00704	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S4653701	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S3950100	Integrated Circuit	U35	Telcordia Issue 1	Level I	30.50	1.00	0.137080	1.1468	7295013.06
14S6308001	Integrated Circuit	U36,U40	Telcordia Issue 1	Level I		2.00	0.037489	.6273	26674376.29
14S2200900	Integrated Circuit	U37	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
14S5A01400	Integrated Circuit	U30,U38,U39,U42	Telcordia Issue 1	Level I		4.00	0.062024	2.0756	16122698.68
1231325058	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	2.5099	6666666.67
123131435B	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.2549	6666666.67
1231332721	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.2549	6666666.67
12123A0003	Inductor	FB26	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
11E9622050	Capacitor	C116,C117	Telcordia Issue 1	Level I		2.00	0.004589	.0768	217915067.83
12123B000A	Inductor	FB14	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1315888010	Semiconductor	Q15	Telcordia Issue 1	Level I	29.80	1.00	0.175891	1.4715	5685330.38
14S9070800	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.027121	.2269	36872311.98
14S4195710	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.062024	.5189	16122698.68
1211000180	Inductor	L10	Telcordia Issue 1	Level I		1.00	0.002294	.0192	435830135.66
1211000180	Inductor	L9	Telcordia Issue 1	Level I	18.30	1.00	0.003212	.0269	311289431.94
1211000180	Inductor	L7	Telcordia Issue 1	Level I	22.50	1.00	0.003452	.0289	289715379.37
1211106872	Inductor	L6	Telcordia Issue 1	Level I	25.40	1.00	0.137682	1.1519	7263099.53
1750220320	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001174	.0098	851709427.94
175011901H	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	7.5296	1111111.11
1655404020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.002348	.0196	425854713.97
1654907008	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.001174	.0196	851709427.94
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	1.2549	6666666.67
165451530D	Connection	VGA1	Telcordia Issue 1	Level I		1.00	0.001174	.0098	851709427.94
1655003022	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.001761	.0147	567806285.29
1653006101	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.003522	.0295	283903142.65
1653005201	Connection	CN3,CN4,CN5	Telcordia Issue 1	Level I		3.00	0.005871	.1473	170341885.59
1654804103	Connection	USB1	Telcordia Issue 1	Level I		1.00	0.001174	.0098	851709427.94
1652510204	Connection	LAN1,LAN2	Telcordia Issue 1	Level I		2.00	0.001174	.0196	851709427.94
1655005021	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.002935	.0246	340683771.18
1655305020	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.002935	.0246	340683771.18
1653005205	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.005871	.0491	170341885.59
1653004201	Connection	COMV1	Telcordia Issue 1	Level I		1.00	0.004696	.0393	212927356.99
1653003101	Connection	COMV2,JP1,JP2,JP3, JP5,JP6	Telcordia Issue 1	Level I		6.00	0.001761	.0884	567806285.29
1653205203	Connection	COM1,COM2,COM3, COM4	Telcordia Issue 1	Level I		4.00	0.005871	.1965	170341885.59

