

EMB-9459T Reliability Prediction Report (MTBF)

Report NO : 09E070029

05-05-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** TF-EMB-9459T-A10

II . **Prediction Date:** May 5th, 2009

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

IV . **Predicted by:** Jessica Chou

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

VI. Simulation Environment:

- Temperature: 23.9 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : 100%
- 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:

- TF-EMB-9459T-A10 :
Failure Rate: 15.062397 ppm
MTBF: 66,390 Hours

AAEON Reliability Prediction Report

Part Number 9697945902-D
Reference Des
Date 05. 5, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.90



Description Top-level assembly
File Name EMB-9459T.RPJ
Time 1:40 下午
Failure Rate 15.062397
MTBF 66,390

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-EMB-9459T-A10	9697945902-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	15.06	66390.50

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File Name EMB-9459T.RPJ
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Failure Rate 15.062397
MTBF 66,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121501691	Capacitor	BC1,BC10,BC100, BC101,BC102,BC103, BC104,BC109,BC11, BC110,BC111,BC112, BC113,BC114,BC115, BC116,BC117,BC118, BC119,BC12,BC120, BC121,BC122,BC123, BC124,BC125,BC126, BC127,BC128,BC129, BC13,BC130,BC131, BC132,BC133,BC134, BC135,BC136,BC1	Telcordia Issue 1	Level I		299.00	0.004438	8.8105	225309185.12
1654030003	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.016112	.1070	62064685.43
165320520C	Connection	CN14,CN8,CN9	Telcordia Issue 1	Level I		3.00	0.005371	.1070	186194056.29
165321320E	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.013964	.0927	71613098.57
1653205201	Connection	CN12,CN13,CN15, CN16	Telcordia Issue 1	Level I		4.00	0.005371	.1426	186194056.29
1174510180	Capacitor	CP1,CP10,CP11,CP12, CP2,CP7,CP8,CP9	Telcordia Issue 1	Level I		8.00	0.005426	.2882	184285910.22
1124533190	Capacitor	C1,C157,C163,C169, C173,C194,C195, C196,C197,C198,C2, C26	Telcordia Issue 1	Level I		12.00	0.005426	.4323	184285910.22
1124427090	Capacitor	C10,C11,C12,C199, C206,C207,C3,C34, C39,C40,C41,C42,C7, C8,C9	Telcordia Issue 1	Level I		15.00	0.004438	.4420	225309185.12
1129710090	Capacitor	C204,C205,C4,C5, C576,C577,C6,C79, C81	Telcordia Issue 1	Level I		9.00	0.004438	.2652	225309185.12
1121701790	Capacitor	BC174,BC24,C13,C14, C184,C185,C76	Telcordia Issue 1	Level I		7.00	0.004438	.2063	225309185.12
11E9501091	Capacitor	BC106,BC293,BC82, C109,C148,C15,C150, C16,C17,C181,C188, C189,C191,C200, C202,C203,C208, C219,C22,C221,C224, C230,C233,C234, C241,C250,C262, C265,C266,C268, C269,C27,C277,C28, C282,C283,C285, C286,C287,C288, C289,C29,C290,C	Telcordia Issue 1	Level I		56.00	0.004438	1.6501	225309185.12

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1124410190	Capacitor	C121,C122,C123, C124,C125,C126, C127,C128,C129, C130,C131,C132, C133,C134,C135, C136,C137,C338, C349,C36	Telcordia Issue 1	Level I		20.00	0.004438	.5893	225309185.12
11E9622050	Capacitor	C113,C114,C303, C304,C307,C308, C310,C45,C46,C51, C54	Telcordia Issue 1	Level I		11.00	0.004438	.3241	225309185.12
11E9647680	Capacitor	C220,C235,C249, C272,C48,C582,C583, C77,C78,C80,C83, C85,C96	Telcordia Issue 1	Level I		13.00	0.004438	.3831	225309185.12
11E1647650	Capacitor	C186,C187,C281, C284	Telcordia Issue 1	Level I		4.00	0.040281	1.0697	24825874.17
1124582880	Capacitor	C313	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
1121701080	Capacitor	C166,C611,C612, C622,C623,C629	Telcordia Issue 1	Level I		6.00	0.004438	.1768	225309185.12
11C1501080	Capacitor	C73,C74,C87,C88, C92,C94,C98	Telcordia Issue 1	Level I		7.00	0.004438	.2063	225309185.12
1122522890	Capacitor	C242,C244,C255,C82, C84,C86,C89	Telcordia Issue 1	Level I		7.00	0.004438	.2063	225309185.12
1121647480	Capacitor	C110,C112,C243, C251,C647,C648,C91	Telcordia Issue 1	Level I		7.00	0.004438	.2063	225309185.12
11C2539290	Capacitor	C100,C138,C139, C141,C143,C93,C95, C99	Telcordia Issue 1	Level I		8.00	0.004438	.2357	225309185.12
1129522790	Capacitor	C104,C105,C106, C107,C108,C160,C97	Telcordia Issue 1	Level I		7.00	0.004438	.2063	225309185.12
1124433080	Capacitor	C101,C117	Telcordia Issue 1	Level I		2.00	0.004438	.0589	225309185.12
1124412090	Capacitor	C102,C116	Telcordia Issue 1	Level I		2.00	0.004438	.0589	225309185.12
1129610051	Capacitor	C145,C146,C152, C153,C154,C155, C156,C279,C295, C296,C297,C298, C299,C302,C309, C311,C587,C599, C600,C606,TC1,TC10, TC11,TC12,TC13, TC14,TC15,TC16, TC17,TC2,TC20,TC21, TC22,TC23,TC24, TC25,TC28,TC29, TC30,TC31,TC32,	Telcordia Issue 1	Level I		69.00	0.004438	2.0332	225309185.12
1124515880	Capacitor	C161	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
1124556180	Capacitor	C171	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12

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1124418190	Capacitor	C170	Telcordia Issue 1	Level I		1.00	0.005426	.0360	184285910.22
11C9512780	Capacitor	C312	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
1129710390	Capacitor	C162,C168,C172, C190,C305,C592	Telcordia Issue 1	Level I		6.00	0.004438	.1768	225309185.12
105A540213	Resistor	R846	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A514733	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A522113	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A535713	Resistor	R842	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A545313	Resistor	R833	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
106B701032	Resistor	RT5	Telcordia Issue 1	Level I		1.00	0.010741	.0713	93097028.14
106B747030	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.010741	.0713	93097028.14
1124405080	Capacitor	C177,C178,C179, C180,C182,C183	Telcordia Issue 1	Level I		6.00	0.005426	.2162	184285910.22
123131435B	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	.9959	6666666.67
1301005440	Semiconductor	D10,D21,D25,D28, D40,D42	Telcordia Issue 1	Level I		6.00	0.023135	.9216	43224341.11
1301005442	Semiconductor	D11,D12,D13,D38, D39,D43,D44	Telcordia Issue 1	Level I		7.00	0.023135	1.0752	43224341.11
1300581940	Semiconductor	D14,D23	Telcordia Issue 1	Level I		2.00	0.077117	1.0240	12967302.33
1300001440	Semiconductor	D24,D26,D27	Telcordia Issue 1	Level I		3.00	0.023135	.4608	43224341.11
1189615187	Capacitor	EC17,EC18	Telcordia Issue 1	Level I		2.00	0.004438	.0589	225309185.12
1059700001	Resistor	FB1,FB2,FB3,FB4, L12,L40,L44,L45, L49,L55,L61,L62, L63,R155,R156,R253, R43,R461,R519,R76, R787	Telcordia Issue 1	Level I		21.00	0.002219	.3094	450618370.24
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0398	33333333.33
1653222209	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.023631	.1569	42316830.97
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004408	.0293	226847944.64
1304101340	Semiconductor	LED2,LED3	Telcordia Issue 1	Level I		2.00	0.004408	.0585	226847944.64
1212306033	Inductor	L1,L10,L11,L18,L2, L20,L21,L22,L23, L24,L27,L28,L3,L34, L35,L36,L37,L38, L39,L4,L5,L54,L56, L6,L7,L8,L9	Telcordia Issue 1	Level I		27.00	0.002219	.3978	450618370.24
121230603H	Inductor	L17,L41,L43,L46, L64	Telcordia Issue 1	Level I		5.00	0.002219	.0737	450618370.24
121230805Z	Inductor	L19	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1211100102	Inductor	L25,L53	Telcordia Issue 1	Level I		2.00	0.084329	1.1197	11858378.16
121230805X	Inductor	L29,L30,L33,L42, L50	Telcordia Issue 1	Level I		5.00	0.002219	.0737	450618370.24
1211104760	Inductor	L47,L48	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24

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1211101002	Inductor	L51,L52	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
1231325058	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	1.9917	6666666.67
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.066597	.4421	15015649.70
1311390610	Semiconductor	Q1,Q52	Telcordia Issue 1	Level I		2.00	0.023135	.3072	43224341.11
1310390410	Semiconductor	Q2,Q33,Q45,Q46,Q48, Q7	Telcordia Issue 1	Level I		6.00	0.023135	.9216	43224341.11
1315700211	Semiconductor	Q11,Q12,Q13,Q14, Q15,Q17,Q18,Q3,Q4, Q42,Q43,Q44,Q5,Q60, Q69,Q72,Q73,Q8,Q9	Telcordia Issue 1	Level I		19.00	0.077117	9.7277	12967302.33
14S3524700	Integrated Circuit	Q6	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
1315230111	Semiconductor	Q47,Q59	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
1305099140	Semiconductor	Q51,Q53	Telcordia Issue 1	Level I		2.00	0.077117	1.0240	12967302.33
1540710080	Resistor	RN1,RN10,RN11,RN12, RN2,RN3,RN4,RN5, RN6,RN7,RN8,RN9	Telcordia Issue 1	Level I		12.00	0.005939	.4731	168392378.33
106B501031	Resistor	RT1,RT2,RT3	Telcordia Issue 1	Level I		3.00	0.010741	.2139	93097028.14
105A701039	Resistor	2,R1,R120,R157, R158,R159,R162, R165,R180,R182, R183,R184,R185, R186,R248,R249, R369,R39,R445,R454, R51,R514,R52,R584, R593,R613,R647, R648,R649,R657, R658,R670,R676, R677,R679,R680, R681,R686,R692, R710,R712,R760,	Telcordia Issue 1	Level I		45.00	0.002219	.6630	450618370.24
105A700139	Resistor	R10,R11,R111,R112, R119,R133,R134, R135,R147,R153,R2, R258,R26,R28,R387, R456,R476,R484, R497,R567,R582, R590,R605,R626, R661,R713,R719,R88	Telcordia Issue 1	Level I		28.00	0.002219	.4125	450618370.24
1050502204	Resistor	R3,R320,R321,R438, R5,R6,R604,R79,R8, R80	Telcordia Issue 1	Level I		10.00	0.002219	.1473	450618370.24
105A506823	Resistor	R4,R441,R7,R797	Telcordia Issue 1	Level I		4.00	0.002219	.0589	450618370.24

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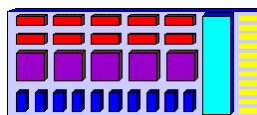


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1050556269	Resistor	R252,R254,R255, R257,R259,R265, R279,R282,R283, R286,R287,R288, R290,R291,R297,R32, R327,R328,R33,R334, R34,R342,R343,R344, R345,R346,R347,R35, R365,R366,R390, R411,R414,R416, R419,R421,R426, R440,R673,R700	Telcordia Issue 1	Level I		40.00	0.002219	.5893	450618370.24
105A702239	Resistor	R293,R302,R324,R50, R535,R761	Telcordia Issue 1	Level I		6.00	0.002219	.0884	450618370.24
105A501223	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A708229	Resistor	R168,R169,R170, R171,R172,R173, R174,R175,R177, R179,R269,R270, R272,R316,R385, R386,R388,R389,R57, R58,R583,R585,R586, R587,R606,R607, R608,R609,R614, R615,R622,R623, R629,R633,R634, R635,R636,R638, R639,R656,R685,	Telcordia Issue 1	Level I		48.00	0.002219	.7072	450618370.24
14S5A01400	Integrated Circuit	U45,U46	Telcordia Issue 1	Level I		2.00	0.054760	.7271	18261642.88
105A733009	Resistor	R196,R404,R477, R480,R482,R509, R641,R67	Telcordia Issue 1	Level I		8.00	0.002219	.1179	450618370.24
1050502224	Resistor	R299,R313,R383, R460,R531,R533, R534,R550,R691, R704,R705,R706, R707,R90	Telcordia Issue 1	Level I		14.00	0.002219	.2063	450618370.24
105A524913	Resistor	R91,R92	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A700003	Resistor	R820,R860,R888,R97, R98	Telcordia Issue 1	Level I		5.00	0.002219	.0737	450618370.24
105A501039	Resistor	R413,R418,R425, R437,R473,R474, R795,R798,R799, R800,R801	Telcordia Issue 1	Level I		11.00	0.002219	.1621	450618370.24
105A514014	Resistor	R132	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A547033	Resistor	R136	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24

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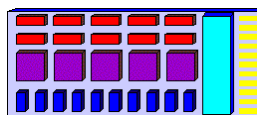


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105A501533	Resistor	R138,R142	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
1059703623	Resistor	R140,R143	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A503309	Resistor	R146,R148,R149, R303,R304,R305, R306,R307,R308, R309,R310,R311, R312,R314,R315, R318,R319,R325, R326,R371,R372, R373,R374,R375, R376,R377,R378, R379,R380,R381, R382,R384,R399, R678,R854,R855, R857	Telcordia Issue 1	Level I		37.00	0.002219	.5451	450618370.24
105A500139	Resistor	R407,R415,R427, R439,R447,R448, R449,R451,R455, R459,R504	Telcordia Issue 1	Level I		11.00	0.002219	.1621	450618370.24
105A510009	Resistor	R181,R232,R245, R330,R331,R475, R481,R625,R631, R660,R663,R671, R720,R802,R803	Telcordia Issue 1	Level I		15.00	0.002219	.2210	450618370.24
105A522663	Resistor	R188	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A701033	Resistor	R498,R890	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A576813	Resistor	R844	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A501003	Resistor	R256,R348,R349, R350,R351,R352, R353,R354,R355, R356,R357,R358, R359,R360,R361, R362,R363,R364, R506,R617,R852	Telcordia Issue 1	Level I		21.00	0.002219	.3094	450618370.24
105A701009	Resistor	R640,R840,R841	Telcordia Issue 1	Level I		3.00	0.002219	.0442	450618370.24
105A702263	Resistor	R821,R830,R866, R872,R874	Telcordia Issue 1	Level I		5.00	0.002219	.0737	450618370.24
105A702269	Resistor	R490	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A703909	Resistor	R213,R215,R216, R219,R229,R230, R236,R237,R650, R651,R672	Telcordia Issue 1	Level I		11.00	0.002219	.1621	450618370.24
1050510034	Resistor	R231,R564,R574, R578	Telcordia Issue 1	Level I		4.00	0.002219	.0589	450618370.24
105A533233	Resistor	R243	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A701053	Resistor	R244,R397	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24

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105A510053	Resistor	R246,R341	Telcordia Issue 1	Level I		2.00	0.013315	.1768	75103061.71
105A580663	Resistor	R266,R285	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A524963	Resistor	R280,R301,R339, R624,R642,R698	Telcordia Issue 1	Level I		6.00	0.002219	.0884	450618370.24
105A700103	Resistor	R284,R845	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A701203	Resistor	R294,R295,R296	Telcordia Issue 1	Level I		3.00	0.002219	.0442	450618370.24
105A554963	Resistor	R323,R340,R408, R446	Telcordia Issue 1	Level I		4.00	0.002219	.0589	450618370.24
105A520003	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A522103	Resistor	R338,R721	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A527463	Resistor	R410,R443	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A500239	Resistor	R420,R442,R444, R856,R858	Telcordia Issue 1	Level I		5.00	0.002219	.0737	450618370.24
105A706809	Resistor	R428	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A705139	Resistor	R483,R556,R559, R560,R561,R568, R570	Telcordia Issue 1	Level I		7.00	0.002219	.1031	450618370.24
105A752323	Resistor	R500	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A549913	Resistor	R690	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A549919	Resistor	R834	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1050537434	Resistor	R835	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A502039	Resistor	R36,R527,R652	Telcordia Issue 1	Level I		3.00	0.002219	.0442	450618370.24
105A525503	Resistor	R655	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A501523	Resistor	R659	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A549969	Resistor	R737,R738,R740, R741,R742,R743, R744,R745,R746, R747,R748,R749, R769,R770,R771, R772,R773,R774, R775,R776,R777, R778	Telcordia Issue 1	Level I		22.00	0.002219	.3241	450618370.24
105A547503	Resistor	R766	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A503033	Resistor	R796	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1121610060	Capacitor	TC18	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
14S4021301	Integrated Circuit	U3,U36,U37,U39,U4, U40	Telcordia Issue 1	Level I		6.00	0.054760	2.1813	18261642.88
14S2200900	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
1315970211	Semiconductor	U47,U48,U7,U8	Telcordia Issue 1	Level I		4.00	0.154234	4.0959	6483651.17
14S5A12506	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.024537	.1629	40754472.66
14S4730701	Integrated Circuit	U10	Telcordia Issue 1	Level I	15.70	1.00	0.164336	1.0910	6085108.42
14S4048502	Integrated Circuit	U11,U12	Telcordia Issue 1	Level I		2.00	0.054760	.7271	18261642.88

AAEON Reliability Prediction Report

Part Number 9697945902-D
Reference Des
Date 05. 5, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.90



Description Top-level assembly
File Name EMB-9459T.RPJ
Time 1:40 下午
Failure Rate 15.062397
MTBF 66,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5A00401	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.024537	.1629	40754472.66
14S5812502	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.024537	.1629	40754472.66
14S4811100	Integrated Circuit	U18	Telcordia Issue 1	Level I	15.30	1.00	0.058084	.3856	17216539.32
14S4811100	Integrated Circuit	U17	Telcordia Issue 1	Level I	14.40	1.00	0.055343	.3674	18069290.32
14S5A00700	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.023659	.1571	42267615.14
14S5812300	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.024537	.1629	40754472.66
14S428010D	Integrated Circuit	U28	Telcordia Issue 1	Level I	27.40	1.00	0.108395	.7196	9225548.48
14S4294503	Integrated Circuit	U30	Telcordia Issue 1	Level I	19.10	1.00	0.071020	.4715	14080495.71
14S3422600	Integrated Circuit	U33	Telcordia Issue 1	Level I	38.30	1.00	0.667205	4.4296	1498788.69
14S4121601	Integrated Circuit	U34	Telcordia Issue 1	Level I	20.20	1.00	0.075209	.4993	13296259.05
14S4871204	Integrated Circuit	U35	Telcordia Issue 1	Level I	19.70	1.00	0.073279	.4865	13646490.84
14S4160020	Integrated Circuit	U38	Telcordia Issue 1	Level I	19.50	1.00	0.072519	.4815	13789468.26
14S3626100	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
165300420L	Connection	CN22	Telcordia Issue 1	Level I		1.00	0.004297	.0285	232742570.36
1315030110	Semiconductor	1,Q49,Q50	Telcordia Issue 1	Level I		3.00	0.000000	.0000	.00
1211101005	Inductor	L67	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A704723	Resistor	R861,R864	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
1059710003	Resistor	R863	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A703303	Resistor	R865	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A522003	Resistor	R485	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1129701790	Capacitor	C350	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
1315313800	Semiconductor	Q66	Telcordia Issue 1	Level I	20.40	1.00	0.134021	.8898	7461539.26
1315170310	Semiconductor	Q61,Q62,Q64,Q65, Q68,Q70,Q74	Telcordia Issue 1	Level I		7.00	0.077117	3.5839	12967302.33
105A520033	Resistor	R871	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A511313	Resistor	R876	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A500233	Resistor	R878,R887	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
105A510213	Resistor	R879	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A501623	Resistor	R880	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A532413	Resistor	R881	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
14S4653700	Integrated Circuit	U49	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
1121701050	Capacitor	C158,C632	Telcordia Issue 1	Level I		2.00	0.004438	.0589	225309185.12
105A510523	Resistor	R886	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1129610080	Capacitor	C626,C627,C628	Telcordia Issue 1	Level I		3.00	0.004438	.0884	225309185.12
11B2710060	Capacitor	C617	Telcordia Issue 1	Level I		1.00	0.004438	.0295	225309185.12
105A510033	Resistor	R895	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A511503	Resistor	R883	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24

AAEON Reliability Prediction Report

Part Number 9697945902-D
Reference Des
Date 05. 5, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 23.90



Description Top-level assembly
File Name EMB-9459T.RPJ
Time 1:40 下午
Failure Rate 15.062397
MTBF 66,390

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A512103	Resistor	R891	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A518703	Resistor	R884	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1050520004	Resistor	R893	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
131411171C	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
1314108412	Integrated Circuit	U53	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
1301053040	Semiconductor	D41	Telcordia Issue 1	Level I		1.00	0.023135	.1536	43224341.11
1122710080	Capacitor	C580	Telcordia Issue 1	Level I		1.00	0.005426	.0360	184285910.22
1122501780	Capacitor	C610,C630	Telcordia Issue 1	Level I		2.00	0.004438	.0589	225309185.12
105A584513	Resistor	R501	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
165392521H	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.026854	.1783	37238811.26
14S3170800	Integrated Circuit	U2	Telcordia Issue 1	Level I	22.80	1.00	0.260720	1.7309	3835526.05
105A705129	Resistor	R41	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
105A501413	Resistor	R910	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1189633162	Capacitor	C223,C588,C591,C62	Telcordia Issue 1	Level I		4.00	0.004438	.1179	225309185.12
1059702261	Resistor	R882,R896	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
14S4195710	Integrated Circuit	U16,U29	Telcordia Issue 1	Level I		2.00	0.054760	.7271	18261642.88
14S6334610	Integrated Circuit	U20,U21	Telcordia Issue 1	Level I		2.00	0.021163	.2810	47252881.19
1315700310	Semiconductor	Q67	Telcordia Issue 1	Level I		1.00	0.077117	.5120	12967302.33
105A500133	Resistor	R875,R912	Telcordia Issue 1	Level I		2.00	0.002219	.0295	450618370.24
14S2632100	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.054760	.3636	18261642.88
105A703033	Resistor	R885	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1315668510	Semiconductor	Q71	Telcordia Issue 1	Level I		1.00	0.077117	.5120	12967302.33
12123D1210	Inductor	L69,L70,L71,L72	Telcordia Issue 1	Level I		4.00	0.084329	2.2394	11858378.16
105A539223	Resistor	R42	Telcordia Issue 1	Level I		1.00	0.002219	.0147	450618370.24
1315700217	Semiconductor	Q54,Q55,Q56,Q57, Q58	Telcordia Issue 1	Level I		5.00	0.077117	2.5599	12967302.33
1314570810	Semiconductor	U50	Telcordia Issue 1	Level I		1.00	0.046270	.3072	21612170.56
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001074	.0071	930970281.43
175011901H	Miscellaneous	BAT1_1	Telcordia Issue 1	Level I		1.00	0.900000	5.9751	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.9959	6666666.67
1655004020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002148	.0143	465485140.72
1654418100	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.004834	.0321	206882284.76
1653004201	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.004297	.0285	232742570.36
1655305020	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.002685	.0178	372388112.57
1654232200	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.034373	.2282	29092821.29
1653006101	Connection	CN18	Telcordia Issue 1	Level I		1.00	0.003222	.0214	310323427.14
1655003010	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001611	.0107	620646854.29

