

Report NO. : 10E070024

EMB-9459T

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 17.562624 ppm MTBF: 56,939 Hours
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Issue date	Approval	Test Engineer
2010/10/01	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: EMB-9459T-A20

II . Prediction Date: Oct. 1st, 2010

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: 25.9 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:

EMB-9459T-A20:

- Failure Rate: 17.562624 ppm
- MTBF: 56,939 Hours

AAEON Reliability Prediction Report

Part Number 969794590A-D
Reference Des
Date 10. 1, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.90



Description Top-level assembly
File Name TF-EMB-9459T-A20.RPJ
Time 11:31
Failure Rate 17.562624
MTBF 56,939

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-EMB-9459T-A20	969794590A-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.56	56939.10

AAEON Reliability Prediction Report

Part Number 969794590A-D
Reference Des
Date 10. 1, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.90



Description Top-level assembly
File Name TF-EMB-9459T-A20.RPJ
Time 11:31
Failure Rate 17.562624
MTBF 56,939

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501091	Capacitor	BC106,BC158,BC160, BC165,BC166,BC293, BC82,C109,C148,C15, C150,C16,C17,C181, C191,C192,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,	Telcordia Issue 1	Level I		67.00	0.004616	1.7609	216644183.01
1124410190	Capacitor	C121,C122,C123, C124,C125,C126, C127,C128,C129, C130,C131,C132, C133,C134,C135, C136,C137,C338, C349,C36,C749	Telcordia Issue 1	Level I		21.00	0.004616	.5519	216644183.01
11E1522680	Capacitor	C115,C167,C228, C232,C237,C240, C247,C248,C306, C314,C37,C47	Telcordia Issue 1	Level I		12.00	0.004616	.3154	216644183.01
11E9622050	Capacitor	C113,C114,C303, C304,C307,C308, C310,C45,C46,C51, C54	Telcordia Issue 1	Level I		11.00	0.004616	.2891	216644183.01
11E9647680	Capacitor	C220,C235,C249, C272,C48,C709,C77, C78,C80,C83,C85, C96	Telcordia Issue 1	Level I		12.00	0.004616	.3154	216644183.01
11E1647650	Capacitor	C186,C187,C218, C222,C225,C226, C281,C284,C56,C57	Telcordia Issue 1	Level I		10.00	0.004616	.2628	216644183.01
1124582880	Capacitor	C313	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
11C1501080	Capacitor	C166,C211,C319, C320,C668,C73,C74, C752,C87,C88,C92, C94,C98	Telcordia Issue 1	Level I		13.00	0.004616	.3417	216644183.01
1122522890	Capacitor	C242,C244,C255,C82, C84,C86,C89	Telcordia Issue 1	Level I		7.00	0.004616	.1840	216644183.01
1121647480	Capacitor	C110,C112,C243, C251,C647,C648,C91	Telcordia Issue 1	Level I		7.00	0.004616	.1840	216644183.01
11C2539290	Capacitor	C100,C138,C139, C141,C143,C93,C95, C99	Telcordia Issue 1	Level I		8.00	0.004616	.2103	216644183.01
1129522790	Capacitor	BC131,BC132,C104, C105,C106,C107, C108,C160,C97	Telcordia Issue 1	Level I		9.00	0.004616	.2365	216644183.01

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File Name TF-EMB-9459T-A20.RPJ
Time 11:31
Failure Rate 17.562624
MTBF 56,939

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124433080	Capacitor	C101,C117	Telcordia Issue 1	Level I		2.00	0.004616	.0526	216644183.01
1124412090	Capacitor	C102,C116	Telcordia Issue 1	Level I		2.00	0.004616	.0526	216644183.01
1129610051	Capacitor	C145,C146,C152, C153,C154,C155, C156,C212,C215, C216,C217,C279, C295,C296,C297, C298,C299,C302, C311,C599,C759, C764,C765,TC1,TC10, TC11,TC12,TC13, TC14,TC15,TC16, TC17,TC2,TC20,TC21, TC22,TC23,TC24, TC25,TC28,TC29,	Telcordia Issue 1	Level I		72.00	0.004616	1.8923	216644183.01
1124515880	Capacitor	C161	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
1124556180	Capacitor	C171	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
1124418190	Capacitor	C170	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
11C9512780	Capacitor	C312	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
1129710390	Capacitor	BC107,C162,C168, C172,C189,C190, C305,C746	Telcordia Issue 1	Level I		8.00	0.004616	.2103	216644183.01
105A540213	Resistor	R528,R846	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A514733	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A522113	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A535713	Resistor	R842	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A545313	Resistor	R833	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
106B701032	Resistor	RT5	Telcordia Issue 1	Level I		1.00	0.011926	.0679	83852789.12
106B747030	Resistor	RT4	Telcordia Issue 1	Level I		1.00	0.011926	.0679	83852789.12
1124405080	Capacitor	C177,C178,C179, C180,C182,C183	Telcordia Issue 1	Level I		6.00	0.004616	.1577	216644183.01
123131435F	Miscellaneous	Y5,Y6	Telcordia Issue 1	Level I		2.00	0.150000	1.7082	6666666.67
1301005440	Semiconductor	D10,D21,D25,D28, D41,D45,D51, D55,D59	Telcordia Issue 1	Level I		9.00	0.024505	1.2558	40808282.24
1301005440	Semiconductor	D46	Telcordia Issue 1	Level I	15.60	1.00	0.037428	.2131	26718227.36
1301005442	Semiconductor	D11,D12,D13,D38, D39,D40,D44	Telcordia Issue 1	Level I		7.00	0.024505	.9767	40808282.24
1300581940	Semiconductor	D14,D23	Telcordia Issue 1	Level I		2.00	0.081683	.9302	12242484.67
1300001440	Semiconductor	D24,D26,D27,D58	Telcordia Issue 1	Level I		4.00	0.024505	.5581	40808282.24
1189615187	Capacitor	EC17,EC18	Telcordia Issue 1	Level I		2.00	0.004616	.0526	216644183.01
1189615187	Capacitor	EC19	Telcordia Issue 1	Level I	17.90	1.00	0.006414	.0365	155914736.85

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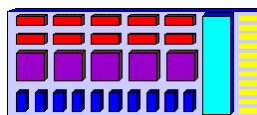


Description Top-level assembly
File Name TF-EMB-9459T-A20.RPJ
Time 11:31
Failure Rate 17.562624
MTBF 56,939

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A701039	Resistor	R157,R162,R165, R180,R182,R183, R184,R185,R186, R248,R249,R26,R369, R39,R445,R454,R514, R55,R584,R593,R613, R647,R648,R649, R657,R658,R666, R681,R686,R692, R710,R712,R714, R715,R727,R760, R829,R831,R939	Telcordia Issue 1	Level I		39.00	0.002308	.5125	433288366.03
105A700139	Resistor	R11,R111,R112,R119, R124,R133,R134, R135,R147,R153,R2, R214,R217,R220, R258,R28,R387,R456, R476,R484,R497, R567,R582,R590, R605,R626,R661, R713,R719,R88	Telcordia Issue 1	Level I		30.00	0.002308	.3942	433288366.03
1050502204	Resistor	R3,R320,R321,R438, R5,R6,R604,R79,R8, R80	Telcordia Issue 1	Level I		10.00	0.002308	.1314	433288366.03
105A506823	Resistor	R4,R441,R7,R797	Telcordia Issue 1	Level I		4.00	0.002308	.0526	433288366.03
105A700009	Resistor	L69,L70,L71,L72, R106,R107,R108, R109,R110,R113, R114,R115,R116, R117,R118,R12,R131, R137,R141,R145, R151,R152,R154, R163,R164,R166, R167,R187,R21,R212, R22,R242,R247,R250, R261,R263,R273, R274,R275,R276, R329,R336,R367,	Telcordia Issue 1	Level I		151.00	0.002308	1.9843	433288366.03
105A515009	Resistor	R13,R16,R17,R512, R513,R516,R60,R61, R62,R64,R65,R66, R682,R688,R689, R697,R701,R702	Telcordia Issue 1	Level I		18.00	0.002308	.2365	433288366.03
105A507509	Resistor	R14,R15,R18	Telcordia Issue 1	Level I		3.00	0.002308	.0394	433288366.03

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Time 11:31
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A747003	Resistor	R23,R24	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A704729	Resistor	R192,R193,R194, R199,R27,R29,R370, R396,R402,R403, R406,R412,R422, R429,R430,R431, R432,R433,R434, R435,R436,R44,R45, R46,R47,R495,R562, R565,R575,R580, R588,R589,R687, R693,R709,R755, R762,R763,R792, R824,R836,R874,	Telcordia Issue 1	Level I		48.00	0.002308	.6308	433288366.03
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	0.002308	.5256	433288366.03
105A702239	Resistor	R293,R302,R324,R50, R535,R761	Telcordia Issue 1	Level I		6.00	0.002308	.0788	433288366.03
105A708229	Resistor	R120,R168,R169, R170,R171,R172, R173,R174,R175, R177,R179,R269, R270,R272,R316, R385,R386,R388, R389,R606,R607, R608,R609,R614, R615,R622,R623, R629,R633,R634, R635,R636,R638, R639,R656,R685, R694,R695,R716,	Telcordia Issue 1	Level I		43.00	0.002308	.5651	433288366.03
14S5A01400	Integrated Circuit	U45,U46	Telcordia Issue 1	Level I		2.00	0.063394	.7219	15774449.75

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MTBF 56,939

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105A510009	Resistor	R181,R232,R245, R330,R331,R475, R481,R625,R631, R671,R720,R802, R803	Telcordia Issue 1	Level I		13.00	0.002308	.1708	433288366.03
105A522663	Resistor	R188	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A701033	Resistor	R498,R946	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A576813	Resistor	R844	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A501003	Resistor	R256,R348,R349, R350,R351,R352, R353,R354,R355, R356,R357,R358, R359,R360,R361, R362,R363,R364, R506,R617,R852, R866	Telcordia Issue 1	Level I		22.00	0.002308	.2891	433288366.03
105A701009	Resistor	R640,R867,R869	Telcordia Issue 1	Level I		3.00	0.002308	.0394	433288366.03
105A702263	Resistor	R105,R158,R821, R830	Telcordia Issue 1	Level I		4.00	0.002308	.0526	433288366.03
105A702269	Resistor	R490	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A703909	Resistor	R213,R215,R216, R219,R229,R230, R236,R237,R650, R651,R672	Telcordia Issue 1	Level I		11.00	0.002308	.1446	433288366.03
1050510034	Resistor	R231,R564,R574, R578,R725,R870	Telcordia Issue 1	Level I		6.00	0.002308	.0788	433288366.03
105A533233	Resistor	R243	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A701053	Resistor	R244,R397,R733,R99	Telcordia Issue 1	Level I		4.00	0.002308	.0526	433288366.03
105A510053	Resistor	R246,R341	Telcordia Issue 1	Level I		2.00	0.013848	.1577	72214727.67
105A580663	Resistor	R266,R285	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A524963	Resistor	R280,R301,R339, R624,R642,R698	Telcordia Issue 1	Level I		6.00	0.002308	.0788	433288366.03
105A700103	Resistor	R284,R845	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A701203	Resistor	R294,R295,R296	Telcordia Issue 1	Level I		3.00	0.002308	.0394	433288366.03
105A554963	Resistor	R323,R340,R408, R446	Telcordia Issue 1	Level I		4.00	0.002308	.0526	433288366.03
105A520003	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A522103	Resistor	R338,R721	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A527463	Resistor	R410,R443	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A500239	Resistor	R420,R442,R444, R858,R890	Telcordia Issue 1	Level I		5.00	0.002308	.0657	433288366.03
105A706809	Resistor	R428	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A705139	Resistor	R483,R556,R559, R560,R561,R568, R570	Telcordia Issue 1	Level I		7.00	0.002308	.0920	433288366.03
105A752323	Resistor	R500	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03

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Failure Rate 17.562624
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A549913	Resistor	R690	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A549919	Resistor	R834	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1050537434	Resistor	R835	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A502039	Resistor	R36,R652,R886	Telcordia Issue 1	Level I		3.00	0.002308	.0394	433288366.03
105A525503	Resistor	R655	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A501523	Resistor	R659	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
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	0.002308	.2891	433288366.03
105A547503	Resistor	R766	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A503033	Resistor	R796	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.063394	.3610	15774449.75
14S4021301	Integrated Circuit	U3,U36,U37,U39,U4, U40	Telcordia Issue 1	Level I		6.00	0.063394	2.1657	15774449.75
1315970211	Semiconductor	U47,U48,U7,U8	Telcordia Issue 1	Level I		4.00	0.163366	3.7208	6121242.34
14S5A12506	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S4048503	Integrated Circuit	U11,U12	Telcordia Issue 1	Level I		2.00	0.063394	.7219	15774449.75
14S5A00401	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S5812502	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S4811100	Integrated Circuit	U17	Telcordia Issue 1	Level I	13.90	1.00	0.059977	.3415	16673094.56
14S4811100	Integrated Circuit	U18	Telcordia Issue 1	Level I	12.40	1.00	0.055343	.3151	18069290.32
14S5A00700	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.026613	.1515	37576138.80
14S5812300	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S428010D	Integrated Circuit	U28	Telcordia Issue 1	Level I	24.80	1.00	0.105208	.5990	9504967.54
14S4294503	Integrated Circuit	U30	Telcordia Issue 1	Level I	18.50	1.00	0.076389	.4349	13090962.03
14S3422600	Integrated Circuit	U33	Telcordia Issue 1	Level I	32.10	1.00	0.521743	2.9708	1916651.09
14S4121601	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S4871204	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
14S4160020	Integrated Circuit	U38	Telcordia Issue 1	Level I	16.90	1.00	0.070281	.4002	14228587.01
14S3626100	Integrated Circuit	U42	Telcordia Issue 1	Level I		1.00	0.063394	.3610	15774449.75
1315030110	Semiconductor	Q70	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1301400642	Semiconductor	D56	Telcordia Issue 1	Level I		1.00	0.024505	.1395	40808282.24
105A704723	Resistor	R861,R864	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
1059710003	Resistor	R863	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03

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Time 11:31
Failure Rate 17.562624
MTBF 56,939

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105A703303	Resistor	R865	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A522003	Resistor	R485	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1122710080	Capacitor	C580	Telcordia Issue 1	Level I		1.00	0.005498	.0313	181892521.70
105A584513	Resistor	R501	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
14S3170800	Integrated Circuit	U2	Telcordia Issue 1	Level I	16.60	1.00	0.198927	1.1327	5026979.71
105A705129	Resistor	R41,R527	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
105A501413	Resistor	R910	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1189633162	Capacitor	C223,C591,C62	Telcordia Issue 1	Level I		3.00	0.004616	.0788	216644183.01
14S4195710	Integrated Circuit	U16,U29	Telcordia Issue 1	Level I		2.00	0.063394	.7219	15774449.75
14S6334610	Integrated Circuit	U20,U21	Telcordia Issue 1	Level I		2.00	0.024500	.2790	40817149.07
1315700217	Semiconductor	Q20,Q54,Q55,Q56, Q57,Q58	Telcordia Issue 1	Level I		6.00	0.081683	2.7906	12242484.67
1122722080	Capacitor	C103,C151	Telcordia Issue 1	Level I		2.00	0.004616	.0526	216644183.01
14S2048800	Integrated Circuit	U53	Telcordia Issue 1	Level I	14.10	1.00	0.090965	.5179	10993185.70
105A523713	Resistor	R728	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1050501234	Resistor	R729	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A501633	Resistor	R599	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A507523	Resistor	R577	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1124533280	Capacitor	C357	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
121110336L	Inductor	L57	Telcordia Issue 1	Level I		1.00	0.087701	.4994	11402325.42
121110336L	Inductor	L66	Telcordia Issue 1	Level I	13.40	1.00	0.112588	.6411	8881924.10
121110336L	Inductor	L80	Telcordia Issue 1	Level I	13.90	1.00	0.113595	.6468	8803167.01
1211000180	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
121110156A	Inductor	L58	Telcordia Issue 1	Level I		1.00	0.087701	.4994	11402325.42
1142522080	Capacitor	TC8	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
1189622151	Capacitor	EC23	Telcordia Issue 1	Level I		1.00	0.044721	.2546	22360743.77
1301053040	Semiconductor	D43,D50	Telcordia Issue 1	Level I		2.00	0.024505	.2791	40808282.24
14S2921400	Integrated Circuit	U52	Telcordia Issue 1	Level I	30.90	1.00	0.485783	2.7660	2058532.78
14S2921400	Integrated Circuit	U55	Telcordia Issue 1	Level I	29.60	1.00	0.449353	2.5586	2225423.83
105A563419	Resistor	R887	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1122510450	Capacitor	C610	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
14S2041500	Integrated Circuit	U27	Telcordia Issue 1	Level I	15.40	1.00	0.183886	1.0470	5438138.00
1189622183	Capacitor	EC14,EC4,EC6, EC7,EC8	Telcordia Issue 1	Level I		5.00	0.004616	.1314	216644183.01
1189622183	Capacitor	EC5	Telcordia Issue 1	Level I	16.00	1.00	0.006205	.0353	161168651.11
105A539223	Resistor	R42	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
14S4730802	Integrated Circuit	U49	Telcordia Issue 1	Level I	12.50	1.00	0.151688	.8637	6592482.19
105A502423	Resistor	R53	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03

AAEON Reliability Prediction Report

Part Number 969794590A-D
Reference Des
Date 10. 1, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.90



Description Top-level assembly
File Name TF-EMB-9459T-A20.RPJ
Time 11:31
Failure Rate 17.562624
MTBF 56,939

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3524701	Integrated Circuit	Q31	Telcordia Issue 1	Level I		1.00	0.063394	.3610	15774449.75
165392521H	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.029814	.1698	33541115.65
1314570810	Semiconductor	U50	Telcordia Issue 1	Level I		1.00	0.049010	.2791	20404141.12
1129722091	Capacitor	C625,C627	Telcordia Issue 1	Level I		2.00	0.004616	.0526	216644183.01
14S2200900	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.063394	.3610	15774449.75
105A518223	Resistor	R885,R892	Telcordia Issue 1	Level I		2.00	0.002308	.0263	433288366.03
1121501050	Capacitor	C158	Telcordia Issue 1	Level I		1.00	0.004616	.0263	216644183.01
1315667910	Semiconductor	Q74,Q82,Q84	Telcordia Issue 1	Level I		3.00	0.163366	2.7906	6121242.34
1214309006	Inductor	L46,L73,L74,L75, L76,L77,L78,L79	Telcordia Issue 1	Level I		8.00	0.002308	.1051	433288366.03
1121610060	Capacitor	C324,C383,C398,C59, TC18	Telcordia Issue 1	Level I		5.00	0.004616	.1314	216644183.01
14S9070800	Integrated Circuit	U51,U54,U56,U57	Telcordia Issue 1	Level I		4.00	0.027601	.6286	36230946.94
1305001540	Semiconductor	D53	Telcordia Issue 1	Level I		1.00	0.046159	.2628	21664418.30
1315422410	Semiconductor	Q61	Telcordia Issue 1	Level I		1.00	0.081683	.4651	12242484.67
105A539003	Resistor	R218	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1050502734	Resistor	R68	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
105A510523	Resistor	R889	Telcordia Issue 1	Level I		1.00	0.002308	.0131	433288366.03
1654903900	Connection	CN27	Telcordia Issue 1	Level I		1.00	0.023851	.1358	41926394.56
1654926900	Connection	CN31B	Telcordia Issue 1	Level I		1.00	0.031007	.1765	32251072.74
1315889612	Semiconductor	Q10,Q19,Q62,Q64, Q68,Q69,Q71	Telcordia Issue 1	Level I		7.00	0.081683	3.2557	12242484.67
1315889612	Semiconductor	Q72	Telcordia Issue 1	Level I	17.50	1.00	0.130989	.7458	7634224.98
1315997510	Semiconductor	Q66	Telcordia Issue 1	Level I	19.10	1.00	0.136415	.7767	7330589.09
14S629459E	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.027601	.1572	36230946.94
1655303020	Connection	CN23	Telcordia Issue 1	Level I		1.00	0.001789	.0102	559018594.16
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8541	6666666.67
1655004020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002385	.0136	419263945.62
1653004201	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.004770	.0272	209631972.81
1655305020	Connection	CN26,CN5	Telcordia Issue 1	Level I		2.00	0.002981	.0340	335411156.49
1654232200	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.038162	.2173	26203996.60
1655003010	Connection	CN19	Telcordia Issue 1	Level I		1.00	0.001789	.0102	559018594.16
1653005200	Connection	CN20	Telcordia Issue 1	Level I		1.00	0.023851	.1358	41926394.56
16515C0492	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001193	.0068	838527891.23
1119622196	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.074535	.8488	13416446.26
1119633191	Capacitor	EC22	Telcordia Issue 1	Level I		1.00	0.044721	.2546	22360743.77
1653003101	Connection	JP1,JP3,JP4,JP5, JP6,JP7	Telcordia Issue 1	Level I		6.00	0.001789	.0611	559018594.16
1653003201	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.001193	.0068	838527891.23
1654612307	Connection	KBMS1	Telcordia Issue 1	Level I		1.00	0.001193	.0068	838527891.23

