

EMB-9658T Reliability Prediction Report (MTBF)

Report NO : 09E070032

07-17-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: TF-EMB-9658T-A10

II . Prediction Date: Jul. 17, 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: 24.9 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-9658T-A10 :
Failure Rate: 18.564318 ppm
MTBF: 53,867 Hours

AAEON Reliability Prediction Report

Part Number 9697965806-D
Reference Des
Date 07. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description Top-level assembly
File Name EMB-9658T.RPJ
Time 1:41 下午
Failure Rate 18.564318
MTBF 53,867

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-EMB-9658T-A10	9697965806-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.56	53866.78

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File Name EMB-9658T.RPJ
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Failure Rate 18.564318
MTBF 53,867

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501091	Capacitor	C101,C134,C14,C155, C17,C223,C238,C248, C291,C292,C294, C307,C314,C318, C320,C328,C353, C360,C382,C435,C44, C442,C445,C469, C470,C491,C494, C496,C498,C5,C503, C504,C527,C537, C594,C60,C62,C632, C644,C647,C65,C671, C676,C68,C689,C	Telcordia Issue 1	Level I		59.00	0.004527	1.4386	220919666.10
1124405080	Capacitor	C13,C18,C19,C20, C255,C256	Telcordia Issue 1	Level I		6.00	0.005462	.1765	183081288.02
1129701790	Capacitor	C176,C221,C224, C275,C28,C29,C323, C330,C333,C335, C337,C362,C458, C482,C49,C51,C53, C55,C572,C597,C755, C770,C81,C87,C91	Telcordia Issue 1	Level I		25.00	0.004527	.6096	220919666.10
1129610051	Capacitor	C105,C110,C122, C153,C179,C182, C186,C191,C203, C244,C249,C260, C282,C283,C288, C312,C319,C32,C34, C343,C350,C351, C369,C37,C38,C39, C40,C418,C423,C431, C434,C562,C568, C570,C586,C59,C629, C732,C77,C78,C788	Telcordia Issue 1	Level I		41.00	0.004527	.9997	220919666.10
1129710390	Capacitor	C1,C10,C118,C228, C229,C234,C242, C279,C306,C309, C310,C331,C332, C334,C336,C348, C385,C425,C429, C441,C443,C45,C50, C52,C54,C56,C759, C99	Telcordia Issue 1	Level I		28.00	0.004527	.6827	220919666.10
1121610060	Capacitor	C211,C324,C383, C398,C419,C427,C58, C64,C71	Telcordia Issue 1	Level I		9.00	0.004527	.2194	220919666.10

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1122701680	Capacitor	C390,C61,C768	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1129722091	Capacitor	C70	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1129722680	Capacitor	C581,C584,C587, C590,C593,C642, C645,C652,C656, C665	Telcordia Issue 1	Level I		10.00	0.004527	.2438	220919666.10
1124427080	Capacitor	C100,C79	Telcordia Issue 1	Level I		2.00	0.004527	.0488	220919666.10
1129610080	Capacitor	C117,C121,C149, C180,C345,C354, C364,C370,C379, C392,C486,C500, C501,C509,C522, C532,C535,C540, C598,C631,C639, C641,C643,C649, C650,C653,C654, C655,C659,C660, C661,C663,C666, C668,C672,C674, C675,C678,C679,	Telcordia Issue 1	Level I		57.00	0.004527	1.3898	220919666.10
1129622050	Capacitor	C184,C446,C452, C453,C457,C466, C497,C513,C519, C531,C542,C547, C554,C557,C576, C626,C636,C93	Telcordia Issue 1	Level I		18.00	0.004527	.4389	220919666.10
1124547280	Capacitor	C95	Telcordia Issue 1	Level I		1.00	0.005462	.0294	183081288.02
1124547190	Capacitor	C106,C347,C372, C380	Telcordia Issue 1	Level I		4.00	0.004527	.0975	220919666.10
11E9647680	Capacitor	C147,C358,C359, C371,C416,C417, C502,C518,C530, C543,C566,C627, C635	Telcordia Issue 1	Level I		13.00	0.004527	.3170	220919666.10
11E1647650	Capacitor	C120,C188,C189, C195,C200,C280, C281,C749	Telcordia Issue 1	Level I		8.00	0.042450	1.8293	23556955.78
1124533190	Capacitor	C202,C250,C254, C785	Telcordia Issue 1	Level I		4.00	0.005462	.1177	183081288.02
1121701080	Capacitor	C207,C316,C648	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1124522680	Capacitor	C213,C227	Telcordia Issue 1	Level I		2.00	0.004527	.0488	220919666.10
1124515880	Capacitor	C215	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1122747080	Capacitor	C216	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1121733380	Capacitor	C219,C758	Telcordia Issue 1	Level I		2.00	0.004527	.0488	220919666.10
1124447180	Capacitor	C220	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1129722060	Capacitor	C308,C338,C701, C731	Telcordia Issue 1	Level I		4.00	0.004527	.0975	220919666.10

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124533280	Capacitor	C357	Telcordia Issue 1	Level I		1.00	0.005462	.0294	183081288.02
11B9747490	Capacitor	C447,C544,C548, C555,C565,C571	Telcordia Issue 1	Level I		6.00	0.004527	.1463	220919666.10
1129522790	Capacitor	C218,C225,C226, C448,C461,C477, C492,C516,C559	Telcordia Issue 1	Level I		9.00	0.004527	.2194	220919666.10
1122522890	Capacitor	C459,C467,C472, C476,C485,C488, C505	Telcordia Issue 1	Level I		7.00	0.004527	.1707	220919666.10
1124433080	Capacitor	C495,C510	Telcordia Issue 1	Level I		2.00	0.004527	.0488	220919666.10
11C2539290	Capacitor	C601,C602,C606, C607,C617,C618, C621,C622	Telcordia Issue 1	Level I		8.00	0.004527	.1951	220919666.10
1121533480	Capacitor	C704,C720,C762	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1124539180	Capacitor	C763	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1124518180	Capacitor	C772	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1301005440	Semiconductor	D11,D16,D28,D40, D41,D42,D7	Telcordia Issue 1	Level I		7.00	0.023812	.8979	41994887.40
1301005442	Semiconductor	D10,D14,D27,D47	Telcordia Issue 1	Level I		4.00	0.023812	.5131	41994887.40
1301053040	Semiconductor	D12,D38	Telcordia Issue 1	Level I		2.00	0.023812	.2565	41994887.40
1305099140	Semiconductor	D17,D20	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1301581943	Semiconductor	D18	Telcordia Issue 1	Level I		1.00	0.023812	.1283	41994887.40
1300001440	Semiconductor	D19,D39,D43	Telcordia Issue 1	Level I		3.00	0.023812	.3848	41994887.40
1305100541	Semiconductor	D1,D2,D21,D22,D23, D24,D25,D26,D29,D3, D30,D31,D32,D33, D34,D35,D36,D4,D45, D46,D5,D6	Telcordia Issue 1	Level I		22.00	0.023812	2.8219	41994887.40
1301002240	Semiconductor	D44	Telcordia Issue 1	Level I		1.00	0.023812	.1283	41994887.40
1189615187	Capacitor	EC1,EC14,EC9	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1059700001	Resistor	FB1,FB3,FB4,FB5, L11,L13,L22,L54, L55,L56,L66,L68, L69,L70,R300,R356, R357,R446,R447, R453,R833,R834	Telcordia Issue 1	Level I		22.00	0.002263	.2682	441839332.19
121230603S	Inductor	FB2	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
121230603G	Inductor	FB6	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
121230603Z	Inductor	FB7,FB8,FB9	Telcordia Issue 1	Level I		3.00	0.002263	.0366	441839332.19
1752001601	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0323	333333333.33
165322020L	Connection	IDE1	Telcordia Issue 1	Level I		1.00	0.022640	.1220	44169292.08
1304001340	Semiconductor	LED1,LED5	Telcordia Issue 1	Level I		2.00	0.004832	.0521	206947616.14
1304101340	Semiconductor	LED2,LED4	Telcordia Issue 1	Level I		2.00	0.004832	.0521	206947616.14

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1212306033	Inductor	FB10,FB11,L1,L12, L2,L3,L30,L32,L33, L34,L35,L36,L37, L38,L39,L4,L40,L41, L42,L43,L44,L46, L47,L6,L9	Telcordia Issue 1	Level I		25.00	0.002263	.3048	441839332.19
121230805X	Inductor	L48,L5,L58,L61,L67	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
121230603H	Inductor	L10,L18,L53,L7,L8	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
1211101064	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.086004	.4633	11627350.85
121110336B	Inductor	L15,L57	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
1211000180	Inductor	L16	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
121110010F	Inductor	L19,L20,L63,L65	Telcordia Issue 1	Level I		4.00	0.086004	1.8531	11627350.85
121110100P	Inductor	L21,L59,L62	Telcordia Issue 1	Level I		3.00	0.086004	1.3898	11627350.85
1214309000	Inductor	L23,L24,L25,L26	Telcordia Issue 1	Level I		4.00	0.002263	.0488	441839332.19
1211105673	Inductor	L28	Telcordia Issue 1	Level I		1.00	0.086004	.4633	11627350.85
1211105673	Inductor	L29	Telcordia Issue 1	Level I	16.10	1.00	0.116036	.6251	8617984.64
1211100164	Inductor	L60	Telcordia Issue 1	Level I		1.00	0.086004	.4633	11627350.85
1654262300	Connection	MPCI1	Telcordia Issue 1	Level I		1.00	0.070185	.3781	14248158.74
14S3524700	Integrated Circuit	Q3	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
1315700211	Semiconductor	Q32,Q33,Q34,Q35, Q37,Q4,Q49,Q50,Q61, Q62,Q67,Q68	Telcordia Issue 1	Level I		12.00	0.079375	5.1308	12598466.22
1310390410	Semiconductor	Q1,Q2,Q38,Q39,Q40, Q42,Q44,Q5,Q52,Q59	Telcordia Issue 1	Level I		10.00	0.023812	1.2827	41994887.40
1315230111	Semiconductor	Q12,Q16,Q31,Q6	Telcordia Issue 1	Level I		4.00	0.000000	.0000	.00
1315662810	Semiconductor	Q13,Q7	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1315662210	Semiconductor	Q47,Q8	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1315998410	Semiconductor	Q54,Q9	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1315731310	Semiconductor	Q10,Q45	Telcordia Issue 1	Level I		2.00	0.158749	1.7103	6299233.11
1311138610	Semiconductor	Q15	Telcordia Issue 1	Level I		1.00	0.023812	.1283	41994887.40
1315270210	Semiconductor	Q17,Q24	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1314570810	Semiconductor	Q20	Telcordia Issue 1	Level I		1.00	0.047625	.2565	20997443.70
1315700214	Semiconductor	Q21,Q48,Q55,Q57	Telcordia Issue 1	Level I		4.00	0.079375	1.7103	12598466.22
1315441014	Semiconductor	Q27,Q36	Telcordia Issue 1	Level I		2.00	0.079375	.8551	12598466.22
1311390610	Semiconductor	Q28,Q41,Q53	Telcordia Issue 1	Level I		3.00	0.023812	.3848	41994887.40
1311006910	Semiconductor	Q43,Q46	Telcordia Issue 1	Level I		2.00	0.023812	.2565	41994887.40
1315013810	Semiconductor	Q51	Telcordia Issue 1	Level I		1.00	0.079375	.4276	12598466.22
1315667910	Semiconductor	Q58	Telcordia Issue 1	Level I		1.00	0.158749	.8551	6299233.11
1315889612	Semiconductor	Q63,Q64,Q65,Q66	Telcordia Issue 1	Level I		4.00	0.079375	1.7103	12598466.22

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MTBF 53,867

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A710039	Resistor	R133,R27,R384,R388, R467,R601,R633,R67, R699,R750,R760, R789,R805,R811	Telcordia Issue 1	Level I		14.00	0.002263	.1707	441839332.19
105A702239	Resistor	R242,R427,R434, R454,R548,R832, R863	Telcordia Issue 1	Level I		7.00	0.002263	.0853	441839332.19
105A702229	Resistor	R122,R138,R188, R240,R246,R276,R29, R410,R423,R492, R496,R726,R896	Telcordia Issue 1	Level I		13.00	0.002263	.1585	441839332.19
105A707509	Resistor	R333,R334,R335	Telcordia Issue 1	Level I		3.00	0.002263	.0366	441839332.19
105A704729	Resistor	R33,R399,R409,R441, R532,R533,R534, R535,R536,R537, R538,R539,R568, R570,R587,R60,R61, R618,R62,R621,R63, R64,R66,R69,R70, R80,R810,R813,R827, R842,R849,R850, R872,R874,R875, R876,R91	Telcordia Issue 1	Level I		37.00	0.002263	.4511	441839332.19
105A549969	Resistor	R37,R38,R39,R40, R41,R42,R43,R44, R72,R73,R74,R75, R76,R77,R78,R79	Telcordia Issue 1	Level I		16.00	0.002263	.1951	441839332.19
105A733009	Resistor	R160,R229,R247, R307,R45,R463,R65, R885,R889,R892	Telcordia Issue 1	Level I		10.00	0.002263	.1219	441839332.19
105A705609	Resistor	R101,R185,R190, R194,R197,R200, R206,R211,R212, R215,R216,R224, R225,R226,R227, R228,R230,R231, R232,R233,R234, R237,R239,R244, R245,R249,R250, R251,R253,R46,R47, R48,R49,R592,R598, R604,R607,R613, R626,R634,R638,	Telcordia Issue 1	Level I		62.00	0.002263	.7559	441839332.19
105A702209	Resistor	R83,R84	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19

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105A539223	Resistor	R85	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A510009	Resistor	R265,R510,R529, R553,R608,R647, R700,R725,R746, R749,R754,R761, R766,R771,R782,R86	Telcordia Issue 1	Level I		16.00	0.002263	.1951	441839332.19
105A501413	Resistor	R308,R824,R89	Telcordia Issue 1	Level I		3.00	0.002263	.0366	441839332.19
105A701009	Resistor	R100,R141,R209, R210,R426,R429, R648,R659,R90,R92	Telcordia Issue 1	Level I		10.00	0.002263	.1219	441839332.19
105A501039	Resistor	R199,R202,R203, R204,R205,R306, R312,R397,R407, R412,R609,R612, R630,R667,R94	Telcordia Issue 1	Level I		15.00	0.002263	.1829	441839332.19
105A501123	Resistor	R104,R857,R95	Telcordia Issue 1	Level I		3.00	0.002263	.0366	441839332.19
105A516513	Resistor	R96	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A700003	Resistor	R106,R107,R119, R137,R279,R302, R304,R358,R378, R383,R403,R414, R444,R528,R59,R71, R743,R777,R837, R839,R860,R868, R883,R97	Telcordia Issue 1	Level I		24.00	0.002263	.2926	441839332.19
105A703329	Resistor	R394,R415,R435, R450,R478,R99	Telcordia Issue 1	Level I		6.00	0.002263	.0731	441839332.19
105A586603	Resistor	R102	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A575033	Resistor	R117	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A547003	Resistor	R120,R421,R567, R589	Telcordia Issue 1	Level I		4.00	0.002263	.0488	441839332.19
105A535713	Resistor	R123	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A700109	Resistor	R124,R437,R519, R520,R540,R546	Telcordia Issue 1	Level I		6.00	0.002263	.0731	441839332.19
105A703309	Resistor	R125,R142,R151, R152,R153,R154, R155,R156,R157, R158,R169,R170, R171,R172,R173, R174,R175,R176, R177,R178,R179, R180,R181,R186, R187,R255,R451, R455,R456,R457, R458,R479,R481, R622	Telcordia Issue 1	Level I		34.00	0.002263	.4145	441839332.19

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105A500239	Resistor	R129,R136,R223, R297,R588	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
105A547503	Resistor	R164,R286,R499, R503,R600	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
1050524904	Resistor	R198,R248,R462, R645,R709	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
105A708229	Resistor	R238,R241,R273, R369,R371,R448, R541,R564,R602, R605,R616,R632, R639,R641,R642, R643,R644,R650, R651,R655,R656, R657,R658,R664, R665,R668,R673, R677,R678,R685, R686,R687,R716, R723,R729	Telcordia Issue 1	Level I		35.00	0.002263	.4267	441839332.19
105A510053	Resistor	R282	Telcordia Issue 1	Level I		1.00	0.013580	.0731	73639888.70
105A501003	Resistor	R284,R285,R315, R797,R798,R800, R801,R812,R814, R815,R816,R817, R818,R819,R820, R821,R822,R823, R830,R877	Telcordia Issue 1	Level I		20.00	0.002263	.2438	441839332.19
105A514733	Resistor	R301	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A501633	Resistor	R303,R400	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A544213	Resistor	R305	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A556213	Resistor	R314	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A536513	Resistor	R316,R881	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A540213	Resistor	R318,R387	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A505123	Resistor	R344,R368	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A502033	Resistor	R346	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A501223	Resistor	R349	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A705139	Resistor	R372,R390,R521, R795,R796,R886, R887	Telcordia Issue 1	Level I		7.00	0.002263	.0853	441839332.19
105A710009	Resistor	R382,R416,R418, R825,R829,R888	Telcordia Issue 1	Level I		6.00	0.002263	.0731	441839332.19
105A507523	Resistor	R386	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A520003	Resistor	R391,R392,R417, R419,R443	Telcordia Issue 1	Level I		5.00	0.002263	.0610	441839332.19
105A549913	Resistor	R406	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A549933	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A503633	Resistor	R436,R835	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19

AAEON Reliability Prediction Report

Part Number 9697965806-D
Reference Des
Date 07. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description Top-level assembly
File Name EMB-9658T.RPJ
Time 1:41 下午
Failure Rate 18.564318
MTBF 53,867

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1189633160	Capacitor	TC13,TC14,TC15,TC16,TC17,TC18,TC19,TC20,TC23,TC24,TC25,TC3,TC30,TC4,TC5,TC6	Telcordia Issue 1	Level I		16.00	0.004527	.3901	220919666.10
1142522080	Capacitor	TC26,TC27,TC8	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1189610151	Capacitor	TC12	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4021301	Integrated Circuit	U2,U24,U47,U50,U52	Telcordia Issue 1	Level I		5.00	0.058933	1.5873	16968377.18
14S3170800	Integrated Circuit	U3	Telcordia Issue 1	Level I	14.80	1.00	0.165431	.8911	6044799.63
14S5A00821	Integrated Circuit	U32,U33,U34,U5	Telcordia Issue 1	Level I		4.00	0.026029	.5608	38418616.55
14S6341602	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.041829	.2253	23906950.55
14S4825730	Integrated Circuit	U7	Telcordia Issue 1	Level I	11.00	1.00	0.048582	.2617	20583838.28
14S4256610	Inductor	U8	Telcordia Issue 1	Level I	8.20	1.00	0.158798	.8554	6297293.31
14S1035801	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S2048600	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4296501	Integrated Circuit	U12	Telcordia Issue 1	Level I	12.30	1.00	0.052147	.2809	19176410.10
14S3950500	Integrated Circuit	U13	Telcordia Issue 1	Level I	18.60	1.00	0.212299	1.1436	4710340.99
14S4871204	Integrated Circuit	U14	Telcordia Issue 1	Level I	10.10	1.00	0.046241	.2491	21625852.87
14S2951600	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4280121	Integrated Circuit	U17	Telcordia Issue 1	Level I	19.50	1.00	0.076389	.4115	13090962.03
1651611993	Connection	U18	Telcordia Issue 1	Level I	13.70	1.00	0.536637	2.8907	1863456.31
14S3128421	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S3626200	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026029	.1402	38418616.55
14S2200900	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4650601	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4730701	Integrated Circuit	U23	Telcordia Issue 1	Level I	38.00	1.00	0.694705	3.7422	1439459.68
14S2041500	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S9080901	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S2262100	Integrated Circuit	U29	Telcordia Issue 1	Level I	37.10	1.00	0.659530	3.5527	1516231.26
14S6308001	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.035621	.1919	28073518.38
14S5A00700	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.025097	.1352	39845032.76
14S5A12506	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.026029	.1402	38418616.55
14S5A00401	Integrated Circuit	U37,U39,U54	Telcordia Issue 1	Level I		3.00	0.026029	.4206	38418616.55
14S5812502	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.026029	.1402	38418616.55
14S4048502	Integrated Circuit	U40,U41	Telcordia Issue 1	Level I		2.00	0.058933	.6349	16968377.18
14S4195710	Integrated Circuit	U48	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18

AAEON Reliability Prediction Report

Part Number 9697965806-D
Reference Des
Date 07. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90

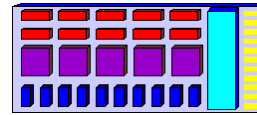


Description Top-level assembly
File Name EMB-9658T.RPJ
Time 1:41 下午
Failure Rate 18.564318
MTBF 53,867

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4081110	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.058933	.3175	16968377.18
14S4121601	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.026029	.1402	38418616.55
1231325058	Miscellaneous	Y1,Y2	Telcordia Issue 1	Level I		2.00	0.150000	1.6160	6666666.67
123131435B	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	.8080	6666666.67
1231332721	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.8080	6666666.67
1122710091	Capacitor	C796	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
1189615152	Capacitor	C285,C287,TC28	Telcordia Issue 1	Level I		3.00	0.004527	.0731	220919666.10
1214309006	Inductor	L49,L50,L51,L52	Telcordia Issue 1	Level I		4.00	0.002263	.0488	441839332.19
105A551119	Resistor	R893	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A702223	Resistor	R331	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
105A500139	Resistor	R113,R143,R150, R189,R401,R402, R445,R484,R501, R505,R511,R561, R590,R661,R680, R692,R696,R712, R826	Telcordia Issue 1	Level I		19.00	0.002263	.2316	441839332.19
1315525011	Semiconductor	U25,U4,U45,U46	Telcordia Issue 1	Level I		4.00	0.079375	1.7103	12598466.22
1124468090	Capacitor	R476	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
105A705629	Resistor	R469,R485	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A710033	Resistor	R914,R915	Telcordia Issue 1	Level I		2.00	0.002263	.0244	441839332.19
105A501523	Resistor	R405	Telcordia Issue 1	Level I		1.00	0.002263	.0122	441839332.19
165392521H	Connection	CN31	Telcordia Issue 1	Level I		1.00	0.028300	.1524	35335433.67
1189647182	Capacitor	TC31	Telcordia Issue 1	Level I		1.00	0.004527	.0244	220919666.10
16515A099E	Connection	DIMMA,DIMMB	Telcordia Issue 1	Level I		2.00	0.013584	.1463	73615486.80
1315700217	Semiconductor	Q11,Q18,Q19,Q22, Q23	Telcordia Issue 1	Level I		5.00	0.079375	2.1378	12598466.22
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
175011901H	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	4.8480	1111111.11
175910000B	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8080	6666666.67
1654445300	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.025470	.1372	39261592.96
1655004020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.002264	.0122	441692920.82
1654418100	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.005094	.0274	196307964.81
1653207204	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.007924	.0427	126197977.38
1652522202	Connection	CN5,CN6	Telcordia Issue 1	Level I		2.00	0.012452	.1342	80307803.79
1653204205	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.004528	.0244	220846460.41
1655305020	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.002830	.0152	353354336.66
1655004022	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.002264	.0122	441692920.82
1655005021	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.002830	.0152	353354336.66

AAEON Reliability Prediction Report

Part Number 9697965806-D
Reference Des
Date 07. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.90



Description Top-level assembly
File Name EMB-9658T.RPJ
Time 1:41 下午
Failure Rate 18.564318
MTBF 53,867

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655304020	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.002264	.0122	441692920.82
1655004014	Connection	CN14,CN29	Telcordia Issue 1	Level I		2.00	0.001132	.0122	883385841.65
1655902030	Connection	CN16	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
1655420027	Connection	CN18	Telcordia Issue 1	Level I		1.00	0.011320	.0610	88338584.16
1654232200	Connection	CN21	Telcordia Issue 1	Level I		1.00	0.036224	.1951	27605807.55
1653006101	Connection	CN28	Telcordia Issue 1	Level I		1.00	0.003396	.0183	294461947.22
1653005200	Connection	CN30	Telcordia Issue 1	Level I		1.00	0.022640	.1220	44169292.08
1119622196	Capacitor	EC2,EC3,EC4,EC6	Telcordia Issue 1	Level I		4.00	0.070751	1.5244	14134173.47
1119633191	Capacitor	EC5,EC8	Telcordia Issue 1	Level I		2.00	0.042450	.4573	23556955.78
1112647110	Capacitor	EC10	Telcordia Issue 1	Level I		1.00	0.070751	.3811	14134173.47
1653003100	Connection	JP1,JP3,JP5	Telcordia Issue 1	Level I		3.00	0.001698	.0274	588923894.43
1653003201	Connection	JP2	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
1653002101	Connection	JP6	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
1654612307	Connection	KBMS1	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
1654260206	Connection	PCI1	Telcordia Issue 1	Level I		1.00	0.067920	.3659	14723097.36
1654907002	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.003962	.0427	252395954.76
14S6201601	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.165614	.8921	6038150.33
1655004011	Connection	CN33	Telcordia Issue 1	Level I		1.00	0.022640	.1220	44169292.08
1653900038	Connection	CN31	Telcordia Issue 1	Level I		1.00	0.001132	.0061	883385841.65
1652517201	Connection	AUDIO1	Telcordia Issue 1	Level I		1.00	0.009622	.0518	103927746.08