

# EMB-LN9T

## Reliability Prediction Report

### (MTBF)

Summary	Failure Rate: 15.700890 ppm MTBF: 63,691 Hours
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Issue date	Approval	Test Engineer
2010/10/07	Jansin Lee	Jessica Chou

## Reliability Prediction (MTBF)

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**I . Model Name:** EMB-LN9T

**II . Prediction Date:** Oct. 7<sup>th</sup>, 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: 25.6 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:

EMB-LN9T:

- Failure Rate: 15.700890 ppm
- MTBF: 63,691 Hours

### AAEON Reliability Prediction Report

**Part Number** 9697LN9T03-D  
**Reference Des**  
**Date** 10. 7, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.60



**Description** Top-level assembly  
**File Name** EMB-LN9T.RPJ  
**Time** 15:13  
**Failure Rate** 15.700890  
**MTBF** 63,691

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
EMB-LN9T	9697LN9T03-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	15.70	63690.66

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1050502204	Resistor	R106,R107,R108, R109,R217,R351, R354,R361,R364, R373	Telcordia Issue 1	Level I		10.00	0.002294	.1461	435830135.66
105A501223	Resistor	R706	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
165392521H	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.029353	.1869	34068377.12
1214309008	Inductor	CH1,CH2,CH3,CH4, CH5,CH6,CH7,CH8	Telcordia Issue 1	Level I		8.00	0.002294	.1169	435830135.66
1654030003	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.017612	.1122	56780628.53
1653222208	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.025830	.1645	38714064.91
1654226300	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.030527	.1944	32758054.92
1654926900	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.030527	.1944	32758054.92
1654903900	Connection	CN13	Telcordia Issue 1	Level I		1.00	0.023482	.1496	42585471.40
1653205201	Connection	COM3,COM4,COM5, COM6	Telcordia Issue 1	Level I		4.00	0.005871	.1496	170341885.59
1121610180	Capacitor	C1,C4	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1121501690	Capacitor	C100,C105,C113, C119,C122,C123, C124,C127,C130, C131,C137,C140, C141,C142,C143, C144,C145,C146, C147,C150,C151, C152,C153,C154, C156,C158,C159, C164,C165,C167, C168,C169,C17,C170, C171,C172,C173, C174,C175,C176,	Telcordia Issue 1	Level I		286.00	0.004589	8.3590	217915067.83
1124433090	Capacitor	C353,C379,C380, C543,C544,C545, C546,C547,C548, C549,C550,C551, C554,C555,C556, C557,C558,C559, C560,C561,C6,C644, C645,C7	Telcordia Issue 1	Level I		24.00	0.004589	.7015	217915067.83
1124533190	Capacitor	C10,C11,C23,C24, C25,C26,C46,C600, C72,C8,C9	Telcordia Issue 1	Level I		11.00	0.004589	.3215	217915067.83
1129710090	Capacitor	C12,C13,C14,C19, C20,C21,C415,C420, C638,C639,C640, C641,C642,C643	Telcordia Issue 1	Level I		14.00	0.004589	.4092	217915067.83

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129701790	Capacitor	C101,C107,C111, C149,C15,C16,C219, C223,C269,C27,C270, C271,C272,C273, C274,C275,C276,C28, C349,C370,C41,C433,C94	Telcordia Issue 1	Level I		23.00	0.004589	.6722	217915067.83
1129610051	Capacitor	C104,C201,C206, C207,C208,C209, C210,C211,C212, C231,C238,C239, C243,C254,C295,C30, C31,C324,C325,C326, C36,C37,C386,C395, C405,C417,C423, C426,C427,C432, C462,C466,C495,C50, C507,C511,C520, C521,C538,C588, C590,C610,C611,	Telcordia Issue 1	Level I		44.00	0.004589	1.2860	217915067.83
11E9501090	Capacitor	C112,C148,C182, C183,C205,C217, C245,C248,C249, C252,C256,C280, C282,C32,C323,C332, C340,C347,C351, C356,C359,C428, C429,C44,C449,C457, C458,C459,C463, C465,C47,C470,C471, C472,C475,C476, C478,C48,C480,C484, C485,C487,C499,	Telcordia Issue 1	Level I		60.00	0.004589	1.7536	217915067.83
1129710390	Capacitor	C103,C329,C33,C34, C345,C346,C35,C366, C40,C49,C593,C596,C605,C67	Telcordia Issue 1	Level I		14.00	0.004589	.4092	217915067.83
1121610060	Capacitor	C510,C57	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1129622050	Capacitor	C115,C116,C117, C118,C121,C193, C233,C416,C441,C493,C84	Telcordia Issue 1	Level I		11.00	0.004589	.3215	217915067.83
1124427080	Capacitor	C106,C134,C135, C155,C157,C194,C199,C599	Telcordia Issue 1	Level I		8.00	0.004589	.2338	217915067.83
1124533280	Capacitor	C129,C328	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83

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**MTBF** 63,691

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11C1647780	Capacitor	C214	Telcordia Issue 1	Level I		1.00	0.004589	.0292	217915067.83
1129622690	Capacitor	C266,C310,C311, C331,C338,C341, C344,C360,C362, C422,C445,C460, C477,C535,C536, C565,C570,C574	Telcordia Issue 1	Level I		18.00	0.004589	.5261	217915067.83
1189633160	Capacitor	C284,C339,C438, C488,C572	Telcordia Issue 1	Level I		5.00	0.004589	.1461	217915067.83
1189633160	Capacitor	C452	Telcordia Issue 1	Level I	16.90	1.00	0.006270	.0399	159483795.54
11C1522650	Capacitor	C286,C300,C327	Telcordia Issue 1	Level I		3.00	0.004589	.0877	217915067.83
1189610151	Capacitor	C287,C439,C517	Telcordia Issue 1	Level I		3.00	0.004589	.0877	217915067.83
11C2510480	Capacitor	C343,C350,C357, C385,C388,C389, C396,C509,C553, C564,C579,C582, C602,C607	Telcordia Issue 1	Level I		14.00	0.004589	.4092	217915067.83
11E9647680	Capacitor	C421,C442	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1124522881	Capacitor	C454,C503	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1121647780	Capacitor	C479,C506	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1124522280	Capacitor	C527	Telcordia Issue 1	Level I		1.00	0.004589	.0292	217915067.83
1124522680	Capacitor	C528	Telcordia Issue 1	Level I		1.00	0.004589	.0292	217915067.83
1124582180	Capacitor	C573	Telcordia Issue 1	Level I		1.00	0.004589	.0292	217915067.83
11E2501080	Capacitor	C584,C615	Telcordia Issue 1	Level I		2.00	0.004589	.0585	217915067.83
1124447180	Capacitor	C598	Telcordia Issue 1	Level I		1.00	0.004589	.0292	217915067.83
1301400642	Semiconductor	D1,D14,D15,D16,D19, D22,D25,D29,D4	Telcordia Issue 1	Level I		9.00	0.024296	1.3927	41159868.85
1301400541	Semiconductor	D2,D20,D21,D23,D24, D27,D28,D30	Telcordia Issue 1	Level I		8.00	0.024296	1.2379	41159868.85
1305100541	Semiconductor	D10,D11,D12,D26, D31,D32,D33,D34, D35,D36,D37,D38,D5, D6,D7,D8,D9	Telcordia Issue 1	Level I		17.00	0.024296	2.6306	41159868.85
1305099140	Semiconductor	D17,D18	Telcordia Issue 1	Level I		2.00	0.080985	1.0316	12347960.65
1300001440	Semiconductor	D39,D40,D41	Telcordia Issue 1	Level I		3.00	0.024296	.4642	41159868.85
1301400440	Semiconductor	D42,D43,D44,D45, D46	Telcordia Issue 1	Level I		5.00	0.024296	.7737	41159868.85
1752001601	Miscellaneous	FS1,FS3,FS4	Telcordia Issue 1	Level I		3.00	0.003000	.0573	33333333.33
1752000501	Miscellaneous	FS2	Telcordia Issue 1	Level I		1.00	0.003000	.0191	33333333.33
1304101340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.005151	.0328	194136508.00
1304001340	Semiconductor	LED2	Telcordia Issue 1	Level I		1.00	0.005151	.0328	194136508.00
165321320E	Connection	LPT1	Telcordia Issue 1	Level I		1.00	0.015263	.0972	65516109.84
12123C0006	Inductor	L1,L10,L11,L12,L13, L15,L2,L20,L3,L4, L5,L6	Telcordia Issue 1	Level I		12.00	0.002294	.1754	435830135.66

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**Temp. (°C)** 25.60



**Description** Top-level assembly  
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**Time** 15:13  
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12123D0001	Inductor	L57,L58,L59,L7,L8, L9	Telcordia Issue 1	Level I		6.00	0.002294	.0877	435830135.66
12123C0010	Inductor	L14,L16,L17,L19, L22,L27,L31,L32, L33,L34,L37,L41, L43,L45,L48,L50, L52,L55,L56	Telcordia Issue 1	Level I		19.00	0.002294	.2777	435830135.66
12123D0000	Inductor	L24,L38,L40	Telcordia Issue 1	Level I		3.00	0.002294	.0438	435830135.66
121110106D	Inductor	L28,L29,L46,L51, L53,L54	Telcordia Issue 1	Level I		6.00	0.087190	3.3319	11469214.10
121110106F	Inductor	L35	Telcordia Issue 1	Level I		1.00	0.087190	.5553	11469214.10
12123C0003	Inductor	L47,L49	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
1654262300	Connection	MPCI1	Telcordia Issue 1	Level I		1.00	0.072795	.4636	13737248.84
1315700216	Semiconductor	Q1,Q17,Q2,Q21,Q22, Q23,Q24,Q26,Q27, Q28,Q3,Q33,Q42,Q43, Q46,Q47,Q48,Q5,Q8	Telcordia Issue 1	Level I		19.00	0.080985	9.8002	12347960.65
1315230511	Semiconductor	Q18,Q4,Q7	Telcordia Issue 1	Level I		3.00	0.080985	1.5474	12347960.65
1310390413	Semiconductor	Q10,Q16,Q25,Q38, Q44,Q6,Q9	Telcordia Issue 1	Level I		7.00	0.024296	1.0832	41159868.85
1315441012	Semiconductor	Q11,Q12,Q13,Q14, Q19,Q20,Q30,Q32, Q35,Q36,Q37,Q39, Q40,Q41	Telcordia Issue 1	Level I		14.00	0.080985	7.2212	12347960.65
1311390612	Semiconductor	Q15,Q45	Telcordia Issue 1	Level I		2.00	0.024296	.3095	41159868.85
1315R30310	Integrated Circuit	Q29	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
1315050311	Integrated Circuit	Q31	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
1315443510	Semiconductor	Q34	Telcordia Issue 1	Level I		1.00	0.080985	.5158	12347960.65
1540782282	Resistor	RN1,RN23,RN24,RN25, RN26,RN27	Telcordia Issue 1	Level I		6.00	0.012839	.4906	77889446.49
1540710382	Resistor	RN16,RN17,RN20	Telcordia Issue 1	Level I		3.00	0.006419	.1227	155778892.99
1540756081	Resistor	RN18,RN19,RN28, RN29,RN30,RN31, RN32,RN41,RN42, RN43,RN44,RN49, RN50,RN51,RN52, RN53,RN54,RN55, RN56	Telcordia Issue 1	Level I		19.00	0.006419	.7768	155778892.99
1540733085	Resistor	RN21,RN22,RN45, RN46,RN47,RN48	Telcordia Issue 1	Level I		6.00	0.006419	.2453	155778892.99
106B501032	Resistor	RT1,RT2	Telcordia Issue 1	Level I		2.00	0.011741	.1496	85170942.79
106B510030	Resistor	RT3	Telcordia Issue 1	Level I		1.00	0.011741	.0748	85170942.79







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**Time** 15:13  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A505123	Resistor	R518,R65	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A502033	Resistor	R472,R678,R74	Telcordia Issue 1	Level I		3.00	0.002294	.0438	435830135.66
105A700003	Resistor	R111,R118,R119, R122,R308,R428, R537,R540,R541, R542,R544,R588, R639,R686,R694	Telcordia Issue 1	Level I		15.00	0.002294	.2192	435830135.66
105A524913	Resistor	R117,R120	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A501053	Resistor	R125,R199,R201	Telcordia Issue 1	Level I		3.00	0.002294	.0438	435830135.66
105A540213	Resistor	R149	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A501533	Resistor	R174,R177,R429	Telcordia Issue 1	Level I		3.00	0.002294	.0438	435830135.66
1059703623	Resistor	R183,R184	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
1059710001	Resistor	R185,R556	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A502133	Resistor	R187	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A524963	Resistor	R200,R570,R576, R620	Telcordia Issue 1	Level I		4.00	0.002294	.0585	435830135.66
105A533033	Resistor	R215,R226	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A506803	Resistor	R216,R221	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A505109	Resistor	R232,R244,R250, R565,R566	Telcordia Issue 1	Level I		5.00	0.002294	.0731	435830135.66
105A500233	Resistor	R238,R271,R280, R396,R574	Telcordia Issue 1	Level I		5.00	0.002294	.0731	435830135.66
105A545303	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A501133	Resistor	R249	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A532413	Resistor	R256	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A549963	Resistor	R284,R579,R590	Telcordia Issue 1	Level I		3.00	0.002294	.0438	435830135.66
105A514023	Resistor	R289	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A515033	Resistor	R362,R474	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A580663	Resistor	R371,R372	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A501413	Resistor	R393	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A505133	Resistor	R427	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A702263	Resistor	R431,R433,R437, R476,R630,R635	Telcordia Issue 1	Level I		6.00	0.002294	.0877	435830135.66
105A507533	Resistor	R439,R478	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A501553	Resistor	R440	Telcordia Issue 1	Level I		1.00	0.013767	.0877	72638355.94
105A590923	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A523713	Resistor	R456,R599	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A501233	Resistor	R457	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A711033	Resistor	R459,R491	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A549913	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66

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**Time** 15:13  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1059702033	Resistor	R471	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A575033	Resistor	R475	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
1059705633	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A502039	Resistor	R506	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A539223	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A507523	Resistor	R539,R543	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
1059722001	Resistor	R545	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A700103	Resistor	R561,R573,R619, R623	Telcordia Issue 1	Level I		4.00	0.002294	.0585	435830135.66
105A510053	Resistor	R562	Telcordia Issue 1	Level I		1.00	0.013767	.0877	72638355.94
105A556263	Resistor	R564	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
1059775003	Resistor	R580	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A566503	Resistor	R597	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A522663	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A554923	Resistor	R626	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
1059501001	Resistor	R627	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A584523	Resistor	R628	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A513033	Resistor	R631	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A504763	Resistor	R677,R692	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A517423	Resistor	R683,R693	Telcordia Issue 1	Level I		2.00	0.002294	.0292	435830135.66
105A586603	Resistor	R685	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A580623	Resistor	R687	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
105A536533	Resistor	R688	Telcordia Issue 1	Level I		1.00	0.002294	.0146	435830135.66
1654907009	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.001174	.0150	851709427.94
16515A0996	Connection	SODIMM1	Telcordia Issue 1	Level I		1.00	0.117411	.7478	8517094.28
16515A099B	Connection	SODIMM2	Telcordia Issue 1	Level I		1.00	0.117411	.7478	8517094.28
165320520C	Connection	USB1,USB2	Telcordia Issue 1	Level I		2.00	0.005871	.0748	170341885.59
14S1230400	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S5A00401	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S5812502	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S4048503	Integrated Circuit	U10,U4	Telcordia Issue 1	Level I		2.00	0.062024	.7901	16122698.68
14S2200900	Integrated Circuit	U5	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S4021301	Integrated Circuit	U36,U37,U40,U41, U47,U49,U51,U53, U54,U6	Telcordia Issue 1	Level I		10.00	0.062024	3.9504	16122698.68
14S5A12506	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S3524700	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S3170800	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68

### AAEON Reliability Prediction Report

**Part Number** 9697LN9T03-D  
**Reference Des**  
**Date** 10. 7, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.60



**Description** Top-level assembly  
**File Name** EMB-LN9T.RPJ  
**Time** 15:13  
**Failure Rate** 15.700890  
**MTBF** 63,691

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315686110	Semiconductor	U11,U12,U35,U52	Telcordia Issue 1	Level I		4.00	0.080985	2.0632	12347960.65
14S2041500	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S4811100	Integrated Circuit	U16,U17	Telcordia Issue 1	Level I		2.00	0.027121	.3455	36872311.98
14S5A00821	Integrated Circuit	U18,U19,U20	Telcordia Issue 1	Level I		3.00	0.027121	.5182	36872311.98
14S6334610	Integrated Circuit	U21,U22	Telcordia Issue 1	Level I		2.00	0.023970	.3053	41718259.98
14S5A00704	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S3033800	Integrated Circuit	U25	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S3050100	Integrated Circuit	U26	Telcordia Issue 1	Level I	12.80	1.00	0.151688	.9661	6592482.19
14S4362706	Integrated Circuit	U27	Telcordia Issue 1	Level I	13.60	1.00	0.058084	.3699	17216539.32
14S4166012	Integrated Circuit	U28	Telcordia Issue 1	Level I	30.20	1.00	0.135110	.8605	7401361.92
14S4280121	Integrated Circuit	U29	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S5A00703	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S4195710	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S4121602	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S3128421	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.062024	.3950	16122698.68
14S4081102	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S2048800	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.033433	.2129	29910752.49
14S2538000	Integrated Circuit	U45	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
14S5912300	Integrated Circuit	U48	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
123132505D	Miscellaneous	Y2,Y3	Telcordia Issue 1	Level I		2.00	0.150000	1.9107	6666666.67
123131435J	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	.9554	6666666.67
1231332721	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	.9554	6666666.67
121110336X	Inductor	L18,L25	Telcordia Issue 1	Level I		2.00	0.087190	1.1106	11469214.10
121110336Y	Inductor	L36,L39,L42	Telcordia Issue 1	Level I		3.00	0.087190	1.6660	11469214.10
121110476V	Inductor	L23,L44	Telcordia Issue 1	Level I		2.00	0.087190	1.1106	11469214.10
1652514210	Connection	AUDIO1	Telcordia Issue 1	Level I		1.00	0.023482	.1496	42585471.40
175011901H	Miscellaneous	BATTERY1	Telcordia Issue 1	Level I		1.00	0.900000	5.7322	1111111.11
14S6203201	Integrated Circuit	BIOS1	Telcordia Issue 1	Level I		1.00	0.027121	.1727	36872311.98
1750220323	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1759100007	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.9554	6666666.67
1653900038	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1655303020	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001761	.0112	567806285.29
1655004020	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.002348	.0150	425854713.97
1655906032	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.003522	.0224	283903142.65
1655003010	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.001761	.0112	567806285.29
1655305020	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.002935	.0187	340683771.18

### AAEON Reliability Prediction Report

**Part Number** 9697LN9T03-D  
**Reference Des**  
**Date** 10. 7, 2010  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.60



**Description** Top-level assembly  
**File Name** EMB-LN9T.RPJ  
**Time** 15:13  
**Failure Rate** 15.700890  
**MTBF** 63,691

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1655004017	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1655404020	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.002348	.0150	425854713.97
1653005200	Connection	CN11	Telcordia Issue 1	Level I		1.00	0.023482	.1496	42585471.40
1654418103	Connection	COM1	Telcordia Issue 1	Level I		1.00	0.010567	.0673	94634380.88
1119622196	Capacitor	C58,C59	Telcordia Issue 1	Level I		2.00	0.073382	.9347	13627350.85
1112610102	Capacitor	C110,C139,C322	Telcordia Issue 1	Level I		3.00	0.044029	.8413	22712251.41
1112647110	Capacitor	C348,C367	Telcordia Issue 1	Level I		2.00	0.073382	.9347	13627350.85
1653003101	Connection	JP1,JP4,JP5	Telcordia Issue 1	Level I		3.00	0.001761	.0337	567806285.29
1653003201	Connection	JP2,JP3	Telcordia Issue 1	Level I		2.00	0.001174	.0150	851709427.94
1653300108	Connection	JP5(1-2)	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1653300107	Connection	JP1(2-3),JP2(3-5), JP2(4-6),JP3(3-4)	Telcordia Issue 1	Level I		4.00	0.001174	.0299	851709427.94
1653300102	Connection	JP4(1-2)	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1654612307	Connection	KBMS1	Telcordia Issue 1	Level I		1.00	0.001174	.0075	851709427.94
1654260207	Connection	PC1	Telcordia Issue 1	Level I		1.00	0.070447	.4487	14195157.13
1652522202	Connection	USB RJ1, USB RJ2	Telcordia Issue 1	Level I		2.00	0.012915	.1645	77428129.81
111961029D	Capacitor	C136,C285,C368, C369,C88	Telcordia Issue 1	Level I		5.00	0.073382	2.3369	13627350.85
111961029H	Capacitor	C354,C355	Telcordia Issue 1	Level I		2.00	0.073382	.9347	13627350.85
1654415308	Connection	DVI+VGA1	Telcordia Issue 1	Level I		1.00	0.008806	.0561	113561257.06