

COM-45SP Reliability Prediction Report (MTBF)

Report NO : 09E070004

03-12-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** COM-45SP

II . **Prediction Date:** Mar. 12, 2009

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

IV . **Predicted by:** Jessica Chou

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

VI. Simulation Environment:

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

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

- COM-45SP:
Failure Rate: 11.753070 ppm
MTBF: 85,084 Hours

AAEON Reliability Prediction Report

Part Number 969745SP01-DIP
Reference Des
Date 03. 12, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name COM-45SP.RPJ
Time 4:27 下午
Failure Rate 11.753070
MTBF 85,084

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-45SP	969745SP01-DIP	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	11.753070	85,084

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Time 4:27 下午
Failure Rate 11.753070
MTBF 85,084

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701790	Capacitor	C132,C138,C139, C143,C150,C159,C18, C181,C212,C341,C39, C40,C457,C484,C485, C486,C487,C488, C489,C490,C491, C492,C493,C494, C495,C496,C497, C498,C499,C56,C90, C91	Telcordia Issue 1	Level I		0.004589	32.00	1.2494	0.146846	217915067.83
1129610080	Capacitor	C111,C112,C152, C153,C154,C177, C179,C222,C223, C224,C225,C226, C227,C238,C239, C240,C241,C242, C243,C261,C262, C267,C272,C281, C290,C296,C303, C306,C307,C314, C323,C324,C325, C326,C327,C328, C329,C34,C349,C	Telcordia Issue 1	Level I		0.004589	62.00	2.4208	0.284515	217915067.83
1129622050	Capacitor	C131,C194,C220, C221,C230,C245, C246,C254,C255, C271,C282,C297,C38, C42,C60	Telcordia Issue 1	Level I		0.004589	15.00	.5857	0.068834	217915067.83
11B9747490	Capacitor	C229,C291,C62,C67, C70,C72	Telcordia Issue 1	Level I		0.004589	6.00	.2343	0.027534	217915067.83
11E9647680	Capacitor	C101,C157,C228, C233,C265,C340, C363,C385,C390, C402,C68,C69,C75	Telcordia Issue 1	Level I		0.004589	13.00	.5076	0.059656	217915067.83
1124522280	Capacitor	C73	Telcordia Issue 1	Level I		0.004589	1.00	.0390	0.004589	217915067.83
1124427080	Capacitor	C108,C74	Telcordia Issue 1	Level I		0.004589	2.00	.0781	0.009178	217915067.83
1122522890	Capacitor	C310,C321,C79,C93, C95	Telcordia Issue 1	Level I		0.004589	5.00	.1952	0.022945	217915067.83
11B2722650	Capacitor	C338,C339,C391, C392,C99	Telcordia Issue 1	Level I		0.004589	5.00	.1952	0.022945	217915067.83
11B2710060	Capacitor	C107,C199,C200, C208,C219,C336	Telcordia Issue 1	Level I		0.004589	6.00	.2343	0.027534	217915067.83
1121610060	Capacitor	C130,C215,C360	Telcordia Issue 1	Level I		0.004589	3.00	.1171	0.013767	217915067.83
1124515880	Capacitor	C133	Telcordia Issue 1	Level I		0.004589	1.00	.0390	0.004589	217915067.83

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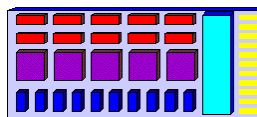


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1121733380	Capacitor	C166	Telcordia Issue 1	Level I		0.004589	1.00	.0390	0.004589	217915067.83
1121533480	Capacitor	C135,C136,C165	Telcordia Issue 1	Level I		0.004589	3.00	.1171	0.013767	217915067.83
1124547280	Capacitor	C142	Telcordia Issue 1	Level I		0.005487	1.00	.0467	0.005487	182247502.99
1124518180	Capacitor	C156	Telcordia Issue 1	Level I		0.004589	1.00	.0390	0.004589	217915067.83
1129522790	Capacitor	C163,C164,C211, C213,C214,C231, C234,C275,C288	Telcordia Issue 1	Level I		0.004589	9.00	.3514	0.041300	217915067.83
1124533280	Capacitor	C183	Telcordia Issue 1	Level I		0.005487	1.00	.0467	0.005487	182247502.99
1124533080	Capacitor	C369,C370,C483	Telcordia Issue 1	Level I		0.004589	3.00	.1171	0.013767	217915067.83
1301005442	Semiconductor	D1,D14,D5,D6	Telcordia Issue 1	Level I		0.024296	4.00	.8269	0.097182	41159868.85
1301053040	Semiconductor	D17,D19,D2,D4	Telcordia Issue 1	Level I		0.024296	4.00	.8269	0.097182	41159868.85
1300001440	Semiconductor	D12,D18,D22	Telcordia Issue 1	Level I		0.024296	3.00	.6201	0.072887	41159868.85
1301005440	Semiconductor	D13,D15,D16	Telcordia Issue 1	Level I		0.024296	3.00	.6201	0.072887	41159868.85
1305099140	Semiconductor	D20,D21	Telcordia Issue 1	Level I		0.080985	2.00	1.3781	0.161970	12347960.65
1212306033	Inductor	FB1,FB7	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
121230603G	Inductor	FB2	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
121230603Z	Inductor	FB3,FB4,FB5	Telcordia Issue 1	Level I		0.002294	3.00	.0586	0.006883	435830135.66
121230603S	Inductor	FB6	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
121230805X	Inductor	FB8	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1304001340	Semiconductor	LED2	Telcordia Issue 1	Level I		0.005151	1.00	.0438	0.005151	194136508.00
105A505603	Resistor	R585	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1211000180	Inductor	L3	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1211105673	Inductor	L4	Telcordia Issue 1	Level I	17.30	0.119969	1.00	1.0207	0.119969	8335466.34
1211105673	Inductor	L5	Telcordia Issue 1	Level I		0.087190	1.00	.7418	0.087190	11469214.10
1211101064	Inductor	L6	Telcordia Issue 1	Level I		0.087190	1.00	.7418	0.087190	11469214.10
121110010F	Inductor	L11,L13,L7,L8	Telcordia Issue 1	Level I		0.087190	4.00	2.9674	0.348760	11469214.10
121110100P	Inductor	L10,L15,L9	Telcordia Issue 1	Level I		0.087190	3.00	2.2255	0.261570	11469214.10
121110336L	Inductor	L1,L2	Telcordia Issue 1	Level I		0.087190	2.00	1.4837	0.174380	11469214.10
121110336L	Inductor	L12	Telcordia Issue 1	Level I	26.70	0.140669	1.00	1.1969	0.140669	7108869.51
1211100164	Inductor	L14	Telcordia Issue 1	Level I		0.087190	1.00	.7418	0.087190	11469214.10
1315731310	Semiconductor	Q1,Q6	Telcordia Issue 1	Level I		0.161970	2.00	2.7562	0.323940	6173980.33

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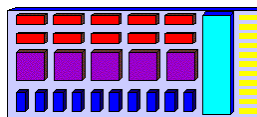


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1315662210	Semiconductor	Q2,Q23,Q3,Q8	Telcordia Issue 1	Level I		0.080985	4.00	2.7562	0.323940	12347960.65
1315662810	Semiconductor	Q20,Q4,Q5,Q7	Telcordia Issue 1	Level I		0.080985	4.00	2.7562	0.323940	12347960.65
1311006910	Semiconductor	Q10,Q9	Telcordia Issue 1	Level I		0.024296	2.00	.4134	0.048591	41159868.85
1315446310	Semiconductor	Q11	Telcordia Issue 1	Level I	24.00	0.152954	1.00	1.3014	0.152954	6537892.63
1315446310	Semiconductor	Q15	Telcordia Issue 1	Level I		0.080985	1.00	.6891	0.080985	12347960.65
1315441012	Semiconductor	Q12	Telcordia Issue 1	Level I	25.70	0.159431	1.00	1.3565	0.159431	6272299.04
1315441012	Semiconductor	Q27	Telcordia Issue 1	Level I		0.080985	1.00	.6891	0.080985	12347960.65
1311390610	Semiconductor	Q16,Q41	Telcordia Issue 1	Level I		0.024296	2.00	.4134	0.048591	41159868.85
1310390410	Semiconductor	Q17,Q26,Q35,Q36, Q37,Q39,Q40,Q47, Q54	Telcordia Issue 1	Level I		0.024296	9.00	1.8604	0.218660	41159868.85
1315998410	Semiconductor	Q18	Telcordia Issue 1	Level I		0.080985	1.00	.6891	0.080985	12347960.65
1315700217	Semiconductor	Q25,Q29,Q31,Q38, Q42,Q43,Q44,Q45, Q46,Q55,Q56	Telcordia Issue 1	Level I		0.161970	11.00	15.1592	1.781671	6173980.33
131411171C	Integrated Circuit	Q28	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
1314108412	Integrated Circuit	Q30	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
1315270210	Semiconductor	Q32,Q33	Telcordia Issue 1	Level I		0.080985	2.00	1.3781	0.161970	12347960.65
1540782282	Resistor	RP1,RP2,RP3,RP4, RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		0.012839	8.00	.8739	0.102710	77889446.49
106B747030	Resistor	RT1	Telcordia Issue 1	Level I		0.011741	1.00	.0999	0.011741	85170942.79
106B501032	Resistor	RT2	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A700009	Resistor	R1,R10,R101,R12, R13,R132,R133,R147, R16,R165,R166,R17, R18,R182,R183,R184, R19,R20,R200,R201, R21,R229,R233,R271, R272,R276,R277, R301,R331,R342, R343,R346,R35,R365, R427,R428,R455, R480,R481,R482, R520,R521,R522, R537,R538,R541,	Telcordia Issue 1	Level I		0.002294	68.00	1.3275	0.156024	435830135.66
105A501413	Resistor	R22	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A511523	Resistor	R3	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66

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MTBF 85,084

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105A554969	Resistor	R309,R320,R321, R328,R329,R542,R56	Telcordia Issue 1	Level I		0.002294	7.00	.1367	0.016061	435830135.66
105A551103	Resistor	R57	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A527463	Resistor	R316,R60	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A751003	Resistor	R64	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A510009	Resistor	R285,R292,R293, R295,R314,R322, R327,R347,R375, R376,R392,R409, R410,R473,R67,R68	Telcordia Issue 1	Level I		0.002294	16.00	.3124	0.036712	435830135.66
1050524904	Resistor	R325,R536,R567,R75	Telcordia Issue 1	Level I		0.002294	4.00	.0781	0.009178	435830135.66
105A703309	Resistor	R117,R118,R119, R120,R121,R122, R123,R124,R125, R126,R127,R416, R420,R425,R431, R452,R575,R80,R82, R83,R84,R85,R86, R87,R97,R98	Telcordia Issue 1	Level I		0.002294	26.00	.5076	0.059656	435830135.66
105A522669	Resistor	R112,R114,R115, R116,R569	Telcordia Issue 1	Level I		0.002294	5.00	.0976	0.011472	435830135.66
105A525503	Resistor	R2	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1124522180	Capacitor	C2	Telcordia Issue 1	Level I		0.004589	1.00	.0390	0.004589	217915067.83
105A506823	Resistor	R138	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A500133	Resistor	R140,R148	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A586603	Resistor	R149	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A705609	Resistor	R163,R401,R528, R543	Telcordia Issue 1	Level I		0.002294	4.00	.0781	0.009178	435830135.66
105A702229	Resistor	R167,R308,R344, R457,R495,R508, R509	Telcordia Issue 1	Level I		0.002294	7.00	.1367	0.016061	435830135.66
1050520004	Resistor	R168,R453,R474, R476,R477,R478, R492,R493	Telcordia Issue 1	Level I		0.002294	8.00	.1562	0.018356	435830135.66
105A547503	Resistor	R169,R439,R451, R461	Telcordia Issue 1	Level I		0.002294	4.00	.0781	0.009178	435830135.66
105A549933	Resistor	R171	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A501123	Resistor	R176,R180	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A556213	Resistor	R179	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A575033	Resistor	R202	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1059700001	Resistor	R203	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66

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105A514733	Resistor	R204	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A501133	Resistor	R208	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A701053	Resistor	R231,R523	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A700003	Resistor	R232,R237,R259, R260,R261,R264, R279,R280,R283, R636	Telcordia Issue 1	Level I		0.002294	10.00	.1952	0.022945	435830135.66
1050510034	Resistor	R236	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A501539	Resistor	R255	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A503933	Resistor	R238	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A536513	Resistor	R262,R265	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A700103	Resistor	R286,R288	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A526113	Resistor	R287	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A564903	Resistor	R307	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A708223	Resistor	R335,R351	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A549969	Resistor	R380	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A515009	Resistor	R399,R400,R405, R406,R412,R413	Telcordia Issue 1	Level I		0.002294	6.00	.1171	0.013767	435830135.66
1050502424	Resistor	R403	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A522103	Resistor	R415	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A518703	Resistor	R441	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A511503	Resistor	R443	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A512103	Resistor	R454	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A517423	Resistor	R503	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A507533	Resistor	R505	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A747033	Resistor	R510	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A733033	Resistor	R524,R529	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A710053	Resistor	R530	Telcordia Issue 1	Level I		0.013767	1.00	.1171	0.013767	72638355.94
105A702033	Resistor	R532	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1050701504	Resistor	R574	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A549919	Resistor	R576	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
105A704729	Resistor	R578,R614	Telcordia Issue 1	Level I		0.002294	2.00	.0390	0.004589	435830135.66
105A549903	Resistor	R584	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66

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1050502224	Resistor	R624	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1050700002	Resistor	R601	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1600000203	Connection	S1	Telcordia Issue 1	Level I		0.001174	1.00	.0100	0.001174	851709427.94
1189622150	Capacitor	TC1,TC15,TC20,TC22, TC25,TC26,TC3,TC30	Telcordia Issue 1	Level I		0.004589	8.00	.3124	0.036712	217915067.83
1189633160	Capacitor	TC12,TC13,TC14, TC16,TC17,TC18, TC19,TC21,TC23, TC24,TC4,TC7,TC8, TC9	Telcordia Issue 1	Level I		0.004589	14.00	.5466	0.064245	217915067.83
1142522080	Capacitor	TC11,TC29,TC5,TC6	Telcordia Issue 1	Level I		0.004589	4.00	.1562	0.018356	217915067.83
1189610151	Capacitor	TC10,TC28	Telcordia Issue 1	Level I		0.004589	2.00	.0781	0.009178	217915067.83
1189615161	Capacitor	TC27	Telcordia Issue 1	Level I		0.044029	1.00	.3746	0.044029	22712251.41
14S2262100	Integrated Circuit	U2	Telcordia Issue 1	Level I	10.20	0.127252	1.00	1.0827	0.127252	7858408.92
14S4195710	Integrated Circuit	U3	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S2048600	Integrated Circuit	U4	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S2041500	Integrated Circuit	U5	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S4081110	Integrated Circuit	U6	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S4751100	Integrated Circuit	U16	Telcordia Issue 1	Level I	9.10	0.045483	1.00	.3870	0.045483	21986193.95
14S5A00821	Integrated Circuit	U18,U19,U20,U23, U25,U26	Telcordia Issue 1	Level I		0.027121	6.00	1.3845	0.162724	36872311.98
14S2951600	Integrated Circuit	U21	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S5A00700	Integrated Circuit	U22	Telcordia Issue 1	Level I		0.026150	1.00	.2225	0.026150	38241316.60
14S9811500	Integrated Circuit	U27	Telcordia Issue 1	Level I		0.062024	1.00	.5277	0.062024	16122698.68
14S5812300	Integrated Circuit	U28	Telcordia Issue 1	Level I		0.027121	1.00	.2308	0.027121	36872311.98
123131435B	Miscellaneous	Y3	Telcordia Issue 1	Level I		0.150000	1.00	1.2763	0.150000	6666666.67
1231332721	Miscellaneous	Y5	Telcordia Issue 1	Level I		0.150000	1.00	1.2763	0.150000	6666666.67
1231325058	Miscellaneous	Y6	Telcordia Issue 1	Level I		0.150000	1.00	1.2763	0.150000	6666666.67
1651611993	Connection	U9	Telcordia Issue 1	Level I	22.40	0.829991	1.00	7.0619	0.829991	1204832.97
16515A099G	Connection	DIMM2	Telcordia Issue 1	Level I		0.001174	1.00	.0100	0.001174	851709427.94
105A708229	Resistor	R609	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
1315002010	Semiconductor	Q57	Telcordia Issue 1	Level I		0.080985	1.00	.6891	0.080985	12347960.65
105A701033	Resistor	R615	Telcordia Issue 1	Level I		0.002294	1.00	.0195	0.002294	435830135.66
14S4245000	Integrated Circuit	U29	Telcordia Issue 1	Level I	12.90	0.055942	1.00	.4760	0.055942	17875779.67

