

# COM-45GS Reliability Prediction Report (MTBF)

Report NO : 09E070041

**10-23-2009**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** COM-45GS (969745GS01-D)

II . **Prediction Date:** Oct. 23, 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: 25.7 degrees C
- Standard: Telcordia (Bellcore) Standard

### VII. Term and Definition:

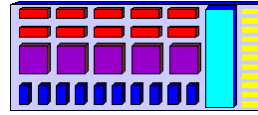
- Unit : An assembly of device.
- Duty Cycle : 100%
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

### VIII. Prediction Result:

- COM-45GS (969745GS01-D) :  
Failure Rate: 11.244915 ppm  
MTBF: 88,929 Hours

### AAEON Reliability Prediction Report

**Part Number** 969745GS01-D  
**Reference Des**  
**Date** 10. 23, 2009  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.70



**Description** Top-level assembly  
**File Name** COM-45GS.RPJ  
**Time** 4:34 下午  
**Failure Rate** 11.244915  
**MTBF** 88,929

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-45GS	969745GS01-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	11.24	88929.08

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**Failure Rate** 11.244915  
**MTBF** 88,929

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
16540M0001	Connection	CN1,CN2	Telcordia Issue 1	Level I		2.00	0.129826	2.3091	7702634.01
165300420L	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.004721	.0420	211822435.15
1121501690	Capacitor	BC1,BC2,BC3,BC4,BC5,BC6,BC7,C1,C103,C106,C113,C114,C116,C118,C122,C123,C124,C125,C13,C141,C158,C167,C186,C196,C198,C20,C209,C210,C217,C22,C23,C232,C237,C24,C25,C250,C251,C252,C253,C26,C263,C264,C268,C269,C27,C273,C	Telcordia Issue 1	Level I		165.00	0.004598	6.7466	217490326.72
1050597623	Resistor	R139	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1124447180	Capacitor	C134,C464	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72
1124547190	Capacitor	C162,C21,C375,C376, C393	Telcordia Issue 1	Level I		5.00	0.004598	.2044	217490326.72
11E9501091	Capacitor	C10,C12,C120,C121,C137,C14,C15,C178,C182,C19,C216,C235,C236,C247,C248,C256,C259,C286,C305,C311,C315,C322,C333,C344,C461,C462,C463,C472,C473,C474,C475,C476,C477,C478,C479,C482,C520,C59,C7,C80	Telcordia Issue 1	Level I		40.00	0.004598	1.6356	217490326.72
11C2510480	Capacitor	C100,C195,C218,C386,C387,C414,C8, C81,C82	Telcordia Issue 1	Level I		9.00	0.004598	.3680	217490326.72
1129710390	Capacitor	C11,C119,C460,C5, C87,C88	Telcordia Issue 1	Level I		6.00	0.004598	.2453	217490326.72
1129710090	Capacitor	C480,C481	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72

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1129701790	Capacitor	C132,C138,C139, C143,C150,C159,C18, C181,C212,C341,C39, C40,C416,C457,C484, C485,C486,C487, C490,C491,C494, C495,C496,C497, C498,C499,C512, C513,C514,C515,C56, C90,C91	Telcordia Issue 1	Level I		33.00	0.004598	1.3493	217490326.72
11E1522680	Capacitor	C126,C127,C128, C129,C140,C155, C180,C185,C244, C249,C28,C29,C30, C31,C32,C33,C36, C37,C458,C501,C66	Telcordia Issue 1	Level I		21.00	0.004598	.8587	217490326.72
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		62.00	0.004598	2.5351	217490326.72
1129622050	Capacitor	C131,C194,C220, C221,C230,C245, C246,C254,C255, C271,C282,C297,C38, C42,C60	Telcordia Issue 1	Level I		15.00	0.004598	.6133	217490326.72
11E9547490	Capacitor	C229,C291,C62,C67, C70,C72	Telcordia Issue 1	Level I		6.00	0.004598	.2453	217490326.72
11E9647680	Capacitor	C101,C157,C228, C233,C265,C340, C363,C385,C390, C402,C68,C69,C75	Telcordia Issue 1	Level I		13.00	0.004598	.5316	217490326.72
1124522280	Capacitor	C73	Telcordia Issue 1	Level I		1.00	0.004598	.0409	217490326.72
1124427080	Capacitor	C108,C74	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72
1122522890	Capacitor	C310,C321,C79	Telcordia Issue 1	Level I		3.00	0.004598	.1227	217490326.72
11C2522650	Capacitor	C338,C339,C391, C392,C99	Telcordia Issue 1	Level I		5.00	0.004598	.2044	217490326.72

**AAEON Reliability Prediction Report**

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**Description** Top-level assembly  
**File Name** COM-45GS.RPJ  
**Time** 4:34 下午  
**Failure Rate** 11.244915  
**MTBF** 88,929

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
11E2510060	Capacitor	C107,C199,C200,C208,C219,C336	Telcordia Issue 1	Level I		6.00	0.004598	.2453	217490326.72
11C1510060	Capacitor	C130,C215,C360	Telcordia Issue 1	Level I		3.00	0.004598	.1227	217490326.72
1124515880	Capacitor	C133	Telcordia Issue 1	Level I		1.00	0.004598	.0409	217490326.72
1121533480	Capacitor	C135,C136,C165	Telcordia Issue 1	Level I		3.00	0.004598	.1227	217490326.72
1124547280	Capacitor	C142	Telcordia Issue 1	Level I		1.00	0.005491	.0488	182129018.98
1124518180	Capacitor	C156	Telcordia Issue 1	Level I		1.00	0.004598	.0409	217490326.72
1129522790	Capacitor	C163,C164,C211,C213,C214,C231,C234,C275,C288	Telcordia Issue 1	Level I		9.00	0.004598	.3680	217490326.72
1124533280	Capacitor	C183	Telcordia Issue 1	Level I		1.00	0.005491	.0488	182129018.98
1124533080	Capacitor	C369,C370,C483	Telcordia Issue 1	Level I		3.00	0.004598	.1227	217490326.72
1301005442	Semiconductor	D1,D14,D5,D6	Telcordia Issue 1	Level I		4.00	0.024365	.8667	41042258.69
1301053040	Semiconductor	D17,D19,D2,D4	Telcordia Issue 1	Level I		4.00	0.024365	.8667	41042258.69
1300001440	Semiconductor	D12,D18,D22,D23	Telcordia Issue 1	Level I		4.00	0.024365	.8667	41042258.69
1301005440	Semiconductor	D13,D15,D16	Telcordia Issue 1	Level I		3.00	0.024365	.6500	41042258.69
1305099140	Semiconductor	D20,D21	Telcordia Issue 1	Level I		2.00	0.081217	1.4445	12312677.61
1212306033	Inductor	FB1,FB7	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
121230603G	Inductor	FB2	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
121230603Z	Inductor	FB3,FB4,FB5	Telcordia Issue 1	Level I		3.00	0.002299	.0613	434980653.44
121230603S	Inductor	FB6	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
121230805X	Inductor	FB8	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1304001340	Semiconductor	LED2	Telcordia Issue 1	Level I		1.00	0.005198	.0462	192376968.39
105A505603	Resistor	R585	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1211000180	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1211105673	Inductor	L4	Telcordia Issue 1	Level I	9.30	1.00	0.104162	.9263	9600443.25
1211105673	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.087360	.7769	11446859.30
1211101064	Inductor	L6	Telcordia Issue 1	Level I		1.00	0.087360	.7769	11446859.30
121110010F	Inductor	L11,L13,L7,L8	Telcordia Issue 1	Level I		4.00	0.087360	3.1075	11446859.30
121110100P	Inductor	L10,L15,L9	Telcordia Issue 1	Level I		3.00	0.087360	2.3307	11446859.30
121110336L	Inductor	L1,L2	Telcordia Issue 1	Level I		2.00	0.087360	1.5538	11446859.30
121110336L	Inductor	L12	Telcordia Issue 1	Level I	28.30	1.00	0.144636	1.2862	6913895.83
1211100164	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.087360	.7769	11446859.30
1315731310	Semiconductor	Q1	Telcordia Issue 1	Level I	10.80	1.00	0.218859	1.9463	4569146.61
1315731310	Semiconductor	Q6	Telcordia Issue 1	Level I	12.40	1.00	0.228341	2.0306	4379418.09
1315662210	Semiconductor	Q2,Q23,Q3,Q8	Telcordia Issue 1	Level I		4.00	0.081217	2.8890	12312677.61
1315662810	Semiconductor	Q20,Q4,Q5,Q7	Telcordia Issue 1	Level I		4.00	0.081217	2.8890	12312677.61

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**Time** 4:34 下午  
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1311006910	Semiconductor	Q10,Q9	Telcordia Issue 1	Level I		2.00	0.024365	.4334	41042258.69
1315446310	Semiconductor	Q11	Telcordia Issue 1	Level I	21.20	1.00	0.143075	1.2724	6989351.40
1315446310	Semiconductor	Q15	Telcordia Issue 1	Level I	20.90	1.00	0.142007	1.2629	7041890.68
1315441012	Semiconductor	Q12	Telcordia Issue 1	Level I	24.70	1.00	0.155977	1.3871	6411186.48
1315441012	Semiconductor	Q27	Telcordia Issue 1	Level I		1.00	0.081217	.7223	12312677.61
1311390610	Semiconductor	Q16,Q41	Telcordia Issue 1	Level I		2.00	0.024365	.4334	41042258.69
1310390410	Semiconductor	Q17,Q26,Q35,Q36, Q37,Q39,Q40,Q47, Q54	Telcordia Issue 1	Level I		9.00	0.024365	1.9501	41042258.69
1315998410	Semiconductor	Q18	Telcordia Issue 1	Level I		1.00	0.081217	.7223	12312677.61
1315700217	Semiconductor	Q25,Q29,Q31,Q38, Q42,Q43,Q44,Q45, Q46,Q55,Q56	Telcordia Issue 1	Level I		11.00	0.081217	7.9448	12312677.61
131411171G	Integrated Circuit	Q28	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
131411171G	Integrated Circuit	Q60	Telcordia Issue 1	Level I	15.40	1.00	0.181482	1.6139	5510184.25
1314108412	Integrated Circuit	Q30	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
1315270210	Semiconductor	Q32,Q33	Telcordia Issue 1	Level I		2.00	0.081217	1.4445	12312677.61
1540782282	Resistor	RP1,RP2,RP3,RP4, RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		8.00	0.012897	.9176	77535670.90
106B747030	Resistor	RT1	Telcordia Issue 1	Level I		1.00	0.011802	.1050	84728974.06
106B501032	Resistor	RT2	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A700009	Resistor	C508,C509,C510, C511,R1,R10,R101, R108,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,R450,R455, R463,R465,R467,	Telcordia Issue 1	Level I		83.00	0.002299	1.6969	434980653.44
105A501413	Resistor	R22	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A511523	Resistor	R3	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A701009	Resistor	R136,R15,R209,R212, R213,R215,R230, R332,R333,R379, R395,R6,R7	Telcordia Issue 1	Level I		13.00	0.002299	.2658	434980653.44
105A535713	Resistor	R8	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A501633	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44





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**Description** Top-level assembly  
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**Time** 4:34 下午  
**Failure Rate** 11.244915  
**MTBF** 88,929

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A510009	Resistor	R285,R292,R293, R295,R314,R322, R327,R347,R375, R376,R392,R409, R410,R473,R67,R68	Telcordia Issue 1	Level I		16.00	0.002299	.3271	434980653.44
1050524904	Resistor	R325,R536,R567,R75	Telcordia Issue 1	Level I		4.00	0.002299	.0818	434980653.44
105A703309	Resistor	R117,R118,R119, R120,R121,R122, R123,R124,R125, R126,R127,R416, R420,R425,R431, R452,R575,R656,R80, R82,R83,R84,R85, R86,R87,R97,R98	Telcordia Issue 1	Level I		27.00	0.002299	.5520	434980653.44
105A522669	Resistor	R112,R114,R115, R116,R569	Telcordia Issue 1	Level I		5.00	0.002299	.1022	434980653.44
105A525503	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1124522180	Capacitor	C2	Telcordia Issue 1	Level I		1.00	0.004598	.0409	217490326.72
105A506823	Resistor	R138	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A500133	Resistor	R140,R148	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A586603	Resistor	R149	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A705609	Resistor	R163,R401,R528, R543	Telcordia Issue 1	Level I		4.00	0.002299	.0818	434980653.44
105A702229	Resistor	R167,R308,R344, R457,R495,R508, R509	Telcordia Issue 1	Level I		7.00	0.002299	.1431	434980653.44
1050520004	Resistor	R168,R453,R474, R476,R477,R478, R492,R493	Telcordia Issue 1	Level I		8.00	0.002299	.1636	434980653.44
105A547503	Resistor	R169,R439,R451, R461	Telcordia Issue 1	Level I		4.00	0.002299	.0818	434980653.44
105A549933	Resistor	R171	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A501123	Resistor	R176,R180	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A556213	Resistor	R179	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A575033	Resistor	R202	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1059700001	Resistor	R203	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A514733	Resistor	R204	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A501133	Resistor	R208	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A701053	Resistor	R231,R523,R654	Telcordia Issue 1	Level I		3.00	0.002299	.0613	434980653.44
105A700003	Resistor	R232,R237,R259, R260,R261,R264, R279,R280,R283, R636	Telcordia Issue 1	Level I		10.00	0.002299	.2044	434980653.44
1050510034	Resistor	R236	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A501539	Resistor	R255	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44

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**MTBF** 88,929

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105A503933	Resistor	R238	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A536513	Resistor	R262,R265	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A700103	Resistor	R286,R288	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A526113	Resistor	R287	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A564903	Resistor	R307	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A708223	Resistor	R335,R351	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A549969	Resistor	R380	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A515009	Resistor	R399,R400,R405, R406,R412,R413	Telcordia Issue 1	Level I		6.00	0.002299	.1227	434980653.44
1050502424	Resistor	R403	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A522103	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A518703	Resistor	R441	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A511503	Resistor	R443	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A512103	Resistor	R454	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A517423	Resistor	R503	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A507533	Resistor	R505	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A747033	Resistor	R510	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A733033	Resistor	R524,R529	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
105A710053	Resistor	R530	Telcordia Issue 1	Level I		1.00	0.013794	.1227	72496775.57
105A702033	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1050701504	Resistor	R574	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A549919	Resistor	R576	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A704729	Resistor	R578,R614,R658, R663	Telcordia Issue 1	Level I		4.00	0.002299	.0818	434980653.44
105A549903	Resistor	R584	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1050502224	Resistor	R624	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1050700002	Resistor	R601	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1600000203	Connection	S1	Telcordia Issue 1	Level I		1.00	0.001180	.0105	847289740.62
1189622150	Capacitor	TC1,TC15,TC20,TC22, TC25,TC26,TC3,TC30	Telcordia Issue 1	Level I		8.00	0.004598	.3271	217490326.72
1189633160	Capacitor	TC12,TC13,TC14, TC16,TC17,TC18, TC19,TC21,TC23, TC24,TC4,TC7,TC8, TC9	Telcordia Issue 1	Level I		14.00	0.004598	.5724	217490326.72
1142522080	Capacitor	TC11,TC29,TC5,TC6	Telcordia Issue 1	Level I		4.00	0.004598	.1636	217490326.72
1189610151	Capacitor	TC10,TC28	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72
1189615161	Capacitor	TC27	Telcordia Issue 1	Level I		1.00	0.044259	.3936	22594393.08
14S2262100	Integrated Circuit	U2	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99

### AAEON Reliability Prediction Report

**Part Number** 969745GS01-D  
**Reference Des**  
**Date** 10. 23, 2009  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.70



**Description** Top-level assembly  
**File Name** COM-45GS.RPJ  
**Time** 4:34 下午  
**Failure Rate** 11.244915  
**MTBF** 88,929

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4195710	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
14S2048600	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
14S2041500	Integrated Circuit	U5	Telcordia Issue 1	Level I	12.70	1.00	0.151688	1.3489	6592482.19
14S4081110	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
14S4751100	Integrated Circuit	U16	Telcordia Issue 1	Level I	10.60	1.00	0.049655	.4416	20138840.23
14S5A00821	Integrated Circuit	U18,U19,U20,U23, U25,U26	Telcordia Issue 1	Level I		6.00	0.027280	1.4556	36657127.03
14S2951600	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
14S5A00700	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.026303	.2339	38018142.21
14S9811500	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.062478	.5556	16005690.99
14S5812300	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.027280	.2426	36657127.03
123131435H	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.3339	6666666.67
1231332721	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	1.3339	6666666.67
1231325054	Miscellaneous	Y6	Telcordia Issue 1	Level I		1.00	0.150000	1.3339	6666666.67
16515A099G	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.001180	.0105	847289740.62
105A708229	Resistor	R609	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
1315002010	Semiconductor	Q57	Telcordia Issue 1	Level I		1.00	0.081217	.7223	12312677.61
105A701033	Resistor	R615,R662	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
14S4256700	Integrated Circuit	U31	Telcordia Issue 1	Level I	12.10	1.00	0.053869	.4791	18563401.07
14S3050500	Integrated Circuit	U12	Telcordia Issue 1	Level I	12.20	1.00	0.146683	1.3044	6817422.03
14S3626201	Integrated Circuit	U1	Telcordia Issue 1	Level I	5.30	1.00	0.091286	.8118	10954631.16
14S5A00401	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.027280	.2426	36657127.03
105A705129	Resistor	C109,C86	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
14S9781800	Integrated Circuit	U11	Telcordia Issue 1	Level I	12.60	1.00	0.150675	1.3399	6636810.52
14S4963500	Integrated Circuit	U17	Telcordia Issue 1	Level I	9.80	1.00	0.124675	1.1087	8020834.01
11C4533880	Capacitor	C166	Telcordia Issue 1	Level I		1.00	0.004598	.0409	217490326.72
1124422080	Capacitor	C516,C517	Telcordia Issue 1	Level I		2.00	0.005491	.0977	182129018.98
11E2647650	Capacitor	C518,C519	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72
121230603I	Inductor	FB10,FB9	Telcordia Issue 1	Level I		2.00	0.002299	.0409	434980653.44
1540722085	Resistor	RN1,RN2,RN3,RN4, RN5	Telcordia Issue 1	Level I		5.00	0.012897	.5735	77535670.90
1050547004	Resistor	R664	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
105A702209	Resistor	R666,R668,R671, R672	Telcordia Issue 1	Level I		4.00	0.002299	.0818	434980653.44
105A708209	Resistor	R667,R669,R670	Telcordia Issue 1	Level I		3.00	0.002299	.0613	434980653.44
105A704739	Resistor	R673	Telcordia Issue 1	Level I		1.00	0.002299	.0204	434980653.44
11E9510050	Capacitor	TC31,TC32	Telcordia Issue 1	Level I		2.00	0.004598	.0818	217490326.72
14S4033001	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.027280	.2426	36657127.03
1231325058	Miscellaneous	Y7	Telcordia Issue 1	Level I		1.00	0.150000	1.3339	6666666.67

