

# COM-690T Reliability Prediction Report (MTBF)

Report NO : 08E070037

**12-10-2008**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** COM-690T

II . **Prediction Date:** Dec. 10, 2008

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: 24.9 degree C
- Standard: Telcordia (Bellcore) Standard
- Component Quality Level: Level I
- Duty Cycle: 100%
- Mode: GF, GU - Ground Fixed, Uncontrolled

### 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-690T
  - Failure Rate: 11.332549 ppm
  - MTBF: 88,241 Hours

### AAEON Reliability Prediction Report

**Part Number** 9697690T02-SMT  
**Reference Des**  
**Date** 12. 10, 2008  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 24.90



**Description** Top-level assembly  
**File Name** COM-690T.RPJ  
**Time** 3:52 下午  
**Failure Rate** 11.332549  
**MTBF** 88,241

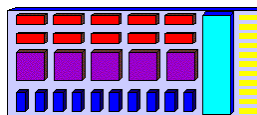
Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-690T	9697690T02-SMT	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	11.332549	88,241





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**Description** Top-level assembly  
**File Name** COM-690T.RPJ  
**Time** 3:52 下午  
**Failure Rate** 11.332549  
**MTBF** 88,241

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129722680	Capacitor	C134,C137,C138, C139,C141,C144, C171,C196,C198, C207,C222,C224, C248,C249,C258, C297,C325,C326	Telcordia Issue 1	Level I		0.004527	18.00	.7190	0.081478	220919666.10
1129710050	Capacitor	C148,C149,C155, C156,C166,C167, C172,C173,C178, C179,C200,C204, C237,C363,C364, C410,C411,C423, C425,C427,C429, C437,C442,C446, C459,C464,C470, C474,C475	Telcordia Issue 1	Level I		0.005462	29.00	1.3977	0.158400	183081288.02
1189633160	Capacitor	C199,C203,C420, C421,C522,C523, C534,C535,C536, C537	Telcordia Issue 1	Level I		0.004527	10.00	.3994	0.045265	220919666.10
1129722091	Capacitor	C223,C225	Telcordia Issue 1	Level I		0.004527	2.00	.0799	0.009053	220919666.10
1124418090	Capacitor	C242,C243	Telcordia Issue 1	Level I		0.004527	2.00	.0799	0.009053	220919666.10
1129710090	Capacitor	C295,C298	Telcordia Issue 1	Level I		0.004527	2.00	.0799	0.009053	220919666.10
1189633181	Capacitor	C310	Telcordia Issue 1	Level I		0.004527	1.00	.0399	0.004527	220919666.10
1124410190	Capacitor	C328,C334,C336, C407,C440,C462	Telcordia Issue 1	Level I		0.004527	6.00	.2397	0.027159	220919666.10
11E9647680	Capacitor	C332	Telcordia Issue 1	Level I		0.004527	1.00	.0399	0.004527	220919666.10
1129610050	Capacitor	C338,C339,C347, C361,C367,C369	Telcordia Issue 1	Level I		0.004527	6.00	.2397	0.027159	220919666.10
1124427090	Capacitor	C349,C350	Telcordia Issue 1	Level I		0.004527	2.00	.0799	0.009053	220919666.10
11C2510190	Capacitor	C401,C503,C521	Telcordia Issue 1	Level I		0.004527	3.00	.1198	0.013580	220919666.10
1142547080	Capacitor	C402,C403,C404, C435,C457	Telcordia Issue 1	Level I		0.004527	5.00	.1997	0.022633	220919666.10
1121501680	Capacitor	C406,C74,C76,C78, C94	Telcordia Issue 1	Level I		0.005462	5.00	.2410	0.027310	183081288.02
1122539980	Capacitor	C14,C17,C18,C443, C465	Telcordia Issue 1	Level I		0.004527	5.00	.1997	0.022633	220919666.10
1189615161	Capacitor	C447,C448,C469, C471	Telcordia Issue 1	Level I		0.042450	4.00	1.4983	0.169801	23556955.78
1124522190	Capacitor	C449,C468,C495	Telcordia Issue 1	Level I		0.004527	3.00	.1198	0.013580	220919666.10
1189622850	Capacitor	C453	Telcordia Issue 1	Level I		0.004527	1.00	.0399	0.004527	220919666.10
1129610080	Capacitor	C454,C455	Telcordia Issue 1	Level I		0.004527	2.00	.0799	0.009053	220919666.10

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**Description** Top-level assembly  
**File Name** COM-690T.RPJ  
**Time** 3:52 下午  
**Failure Rate** 11.332549  
**MTBF** 88,241

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1121747890	Capacitor	C487	Telcordia Issue 1	Level I		0.004527	1.00	.0399	0.004527	220919666.10
1121622780	Capacitor	C488,C490,C524, C525	Telcordia Issue 1	Level I		0.004527	4.00	.1598	0.018106	220919666.10
1124510280	Capacitor	C493,C496	Telcordia Issue 1	Level I		0.005462	2.00	.0964	0.010924	183081288.02
1124547190	Capacitor	C494	Telcordia Issue 1	Level I		0.005462	1.00	.0482	0.005462	183081288.02
1122522890	Capacitor	C500	Telcordia Issue 1	Level I		0.004527	1.00	.0399	0.004527	220919666.10
1301005440	Semiconductor	D5,D7,D9	Telcordia Issue 1	Level I		0.023812	3.00	.6304	0.071437	41994887.40
1304101340	Semiconductor	D3	Telcordia Issue 1	Level I		0.004832	1.00	.0426	0.004832	206947616.14
1301005442	Semiconductor	D10,D11,D12,D8	Telcordia Issue 1	Level I		0.023812	4.00	.8405	0.095250	41994887.40
1301053040	Semiconductor	D16,D19,D21	Telcordia Issue 1	Level I		0.023812	3.00	.6304	0.071437	41994887.40
1301005441	Semiconductor	D17,D18	Telcordia Issue 1	Level I		0.027159	2.00	.4793	0.054318	36819944.35
16515A099B	Connection	J1	Telcordia Issue 1	Level I		0.113201	1.00	.9989	0.113201	8833858.42
16515A099C	Connection	J2	Telcordia Issue 1	Level I		0.113201	1.00	.9989	0.113201	8833858.42
1212308054	Inductor	L1,L2	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
1211103370	Inductor	L4	Telcordia Issue 1	Level I	20.50	0.003297	1.00	.0291	0.003297	303339945.91
1211103370	Inductor	L5	Telcordia Issue 1	Level I	10.00	0.002736	1.00	.0241	0.002736	365486867.32
1211000180	Inductor	L10	Telcordia Issue 1	Level I	25.70	0.003599	1.00	.0318	0.003599	277836182.41
1211000180	Inductor	L8	Telcordia Issue 1	Level I	14.20	0.002952	1.00	.0261	0.002952	338720418.57
1211000180	Inductor	L9	Telcordia Issue 1	Level I	25.10	0.003563	1.00	.0314	0.003563	280625402.63
1310390412	Semiconductor	Q1,Q13,Q14,Q15,Q3, Q5	Telcordia Issue 1	Level I		0.023812	6.00	1.2607	0.142875	41994887.40
1315700214	Semiconductor	Q10,Q11,Q12,Q32, Q34,Q39,Q40,Q42, Q43,Q44	Telcordia Issue 1	Level I		0.079375	10.00	7.0041	0.793747	12598466.22
1315493611	Semiconductor	Q7	Telcordia Issue 1	Level I		0.079375	1.00	.7004	0.079375	12598466.22
1311006910	Semiconductor	Q16	Telcordia Issue 1	Level I	20.50	0.041339	1.00	.3648	0.041339	24190161.07
1311006910	Semiconductor	Q8	Telcordia Issue 1	Level I		0.023812	1.00	.2101	0.023812	41994887.40
1315662210	Semiconductor	Q22,Q31,Q46	Telcordia Issue 1	Level I		0.079375	3.00	2.1012	0.238124	12598466.22
1315662810	Semiconductor	Q23,Q45,Q47	Telcordia Issue 1	Level I		0.079375	3.00	2.1012	0.238124	12598466.22
1315441014	Semiconductor	Q29,Q35,Q37	Telcordia Issue 1	Level I		0.079375	3.00	2.1012	0.238124	12598466.22
1315441014	Semiconductor	Q30	Telcordia Issue 1	Level I	16.60	0.124759	1.00	1.1009	0.124759	8015468.21
1315446310	Semiconductor	Q33	Telcordia Issue 1	Level I	13.60	0.115380	1.00	1.0181	0.115380	8667049.46
1315446310	Semiconductor	Q48	Telcordia Issue 1	Level I		0.079375	1.00	.7004	0.079375	12598466.22
1315013810	Semiconductor	Q41	Telcordia Issue 1	Level I		0.079375	1.00	.7004	0.079375	12598466.22

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**Failure Rate** 11.332549  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540747083	Resistor	RN1,RN10,RN11,RN12, RN13,RN14,RN15, RN16,RN17,RN18, RN19,RN2,RN20,RN21, RN22,RN3,RN4,RN5, RN6,RN7,RN8,RN9	Telcordia Issue 1	Level I		0.006217	22.00	1.2070	0.136785	160836724.71
1540747285	Resistor	RN27,RN28	Telcordia Issue 1	Level I		0.006217	2.00	.1097	0.012435	160836724.71
106B501031	Resistor	RT1	Telcordia Issue 1	Level I		0.011320	1.00	.0999	0.011320	88338584.16
105A505109	Resistor	R1,R2	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A539263	Resistor	R4,R5	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A701039	Resistor	R108,R11,R183,R188, R217,R218,R22,R221, R222,R223,R227, R228,R229,R230, R231,R232,R233, R243,R295,R297, R298,R299,R301, R303,R312,R33,R400, R401,R402,R403, R404,R405,R446, R447,R457,R56,R59, R74,R80	Telcordia Issue 1	Level I		0.002263	39.00	.7789	0.088267	441839332.19
105A730009	Resistor	R12,R13,R15,R17, R18,R34,R39,R41, R42	Telcordia Issue 1	Level I		0.002263	9.00	.1797	0.020369	441839332.19
105A704729	Resistor	R14,R272,R273,R275, R283,R286,R290, R291,R292,R293, R294,R341,R35,R363, R43,R55,R57,R58, R61,R67,R70,R71, R73	Telcordia Issue 1	Level I		0.002263	23.00	.4593	0.052055	441839332.19
105A704739	Resistor	R20	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A516903	Resistor	R21	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A501039	Resistor	R10,R189,R190,R191, R195,R200,R201, R204,R205,R206, R207,R210,R23,R356, R365,R371,R372, R383,R411,R437,R8, R9	Telcordia Issue 1	Level I		0.002263	22.00	.4394	0.049792	441839332.19
105A544263	Resistor	R25,R26	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
1050580664	Resistor	R28	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19



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1050551004	Resistor	R36,R38	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A700139	Resistor	R100,R161,R162, R234,R306,R314, R318,R322,R323, R340,R37,R499,R96, R97,R99	Telcordia Issue 1	Level I		0.002263	15.00	.2996	0.033949	441839332.19
105A549969	Resistor	R122,R123,R124, R125,R126,R127, R128,R129,R130, R131,R146,R46,R47	Telcordia Issue 1	Level I		0.002263	13.00	.2596	0.029422	441839332.19
105A510009	Resistor	R48	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A556203	Resistor	R158,R49	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A700239	Resistor	R50	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A515009	Resistor	R51,R52,R53	Telcordia Issue 1	Level I		0.002263	3.00	.0599	0.006790	441839332.19
105A571503	Resistor	R54	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A503309	Resistor	R62,R63	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A700333	Resistor	R64,R72	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A540269	Resistor	R77,R78	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A706809	Resistor	R79	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A701009	Resistor	R350,R354,R355, R359,R428,R429, R430,R440,R442, R443,R456,R81	Telcordia Issue 1	Level I		0.002263	12.00	.2397	0.027159	441839332.19
105A536529	Resistor	R82	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A515034	Resistor	R91	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A500139	Resistor	R196,R416,R92	Telcordia Issue 1	Level I		0.002263	3.00	.0599	0.006790	441839332.19
1050525504	Resistor	R93	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A510033	Resistor	R380,R94	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A506829	Resistor	R95	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A703309	Resistor	R101,R105,R106, R110,R111,R113, R114,R115,R116, R117,R133,R143, R144,R145,R148, R153,R179,R181, R452,R455	Telcordia Issue 1	Level I		0.002263	20.00	.3994	0.045265	441839332.19
105A526100	Resistor	R102	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A547563	Resistor	R103,R104	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19

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105A547509	Resistor	R132	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
1050502224	Resistor	R134,R135,R136, R374,R391	Telcordia Issue 1	Level I		0.002263	5.00	.0999	0.011316	441839332.19
105A708229	Resistor	R137,R138,R140, R147,R157,R263, R399	Telcordia Issue 1	Level I		0.002263	7.00	.1398	0.015843	441839332.19
105A702209	Resistor	R149,R150,R151, R152,R156,R300, R331,R332	Telcordia Issue 1	Level I		0.002263	8.00	.1598	0.018106	441839332.19
1050520510	Resistor	R154	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A720053	Resistor	R159,R160	Telcordia Issue 1	Level I		0.013580	2.00	.2397	0.027159	73639888.70
105A733009	Resistor	R166,R288	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A702239	Resistor	R168,R279	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A511823	Resistor	R169	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A710039	Resistor	R174,R449,R454, R509	Telcordia Issue 1	Level I		0.002263	4.00	.0799	0.009053	441839332.19
105A702229	Resistor	R184,R185,R186, R187	Telcordia Issue 1	Level I		0.002263	4.00	.0799	0.009053	441839332.19
105A561913	Resistor	R192	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A501539	Resistor	R194,R389,R413	Telcordia Issue 1	Level I		0.002263	3.00	.0599	0.006790	441839332.19
105A549923	Resistor	R203,R379	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A701069	Resistor	R215	Telcordia Issue 1	Level I		0.013580	1.00	.1198	0.013580	73639888.70
1059700001	Resistor	R246	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A703329	Resistor	R249,R255,R258, R261,R266,R269, R328	Telcordia Issue 1	Level I		0.002263	7.00	.1398	0.015843	441839332.19
105A704709	Resistor	R264,R267,R270	Telcordia Issue 1	Level I		0.002263	3.00	.0599	0.006790	441839332.19
105A702039	Resistor	R281	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A561933	Resistor	R348	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A747039	Resistor	R349	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A500239	Resistor	R351,R390	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
1059700101	Resistor	R357,R360,R366, R367,R384,R385, R453	Telcordia Issue 1	Level I		0.002263	7.00	.1398	0.015843	441839332.19
105A501139	Resistor	R16,R358,R417	Telcordia Issue 1	Level I		0.002263	3.00	.0599	0.006790	441839332.19
105A551119	Resistor	R369,R387	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A522623	Resistor	R398	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A700103	Resistor	R410,R435	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
1050536514	Resistor	R412,R436	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
105A526114	Resistor	R418	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19

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**MTBF** 88,241

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701033	Resistor	R419	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19
105A702263	Resistor	R421,R434	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
1651613920	Connection	U1	Telcordia Issue 1	Level I	24.50	0.003698	1.00	.0326	0.003698	270434600.44
14S3917900	Integrated Circuit	U2	Telcordia Issue 1	Level I		0.058933	1.00	.5200	0.058933	16968377.18
14S4690T00	Integrated Circuit	U4	Telcordia Issue 1	Level I	15.60	0.062254	1.00	.5493	0.062254	16063208.29
14S3146200	Integrated Circuit	U6	Telcordia Issue 1	Level I	38.70	0.723216	1.00	6.3818	0.723216	1382712.05
14S4SB6000	Integrated Circuit	U7	Telcordia Issue 1	Level I	20.80	0.081689	1.00	.7208	0.081689	12241502.52
14S4825730	Integrated Circuit	U11	Telcordia Issue 1	Level I	17.20	0.067747	1.00	.5978	0.067747	14760822.47
14S6308000	Integrated Circuit	U12	Telcordia Issue 1	Level I	17.10	0.617201	1.00	5.4463	0.617201	1620217.51
14S4751100	Integrated Circuit	U13	Telcordia Issue 1	Level I	15.10	0.060620	1.00	.5349	0.060620	16496235.06
14S4963500	Integrated Circuit	U14	Telcordia Issue 1	Level I	12.80	0.144723	1.00	1.2771	0.144723	6909741.80
14S6200801	Connection		Telcordia Issue 1	Level I		0.018112	1.00	.1598	0.018112	55211615.10
1651203291	Connection	U15	Telcordia Issue 1	Level I		0.018112	1.00	.1598	0.018112	55211615.10
14S3156500	Semiconductor	U23	Telcordia Issue 1	Level I	49.90	0.162802	1.00	1.4366	0.162802	6142424.35
14S3156500	Semiconductor	U21	Telcordia Issue 1	Level I		0.047625	1.00	.4202	0.047625	20997443.70
14S2048600	Integrated Circuit	U18	Telcordia Issue 1	Level I	26.10	0.341428	1.00	3.0128	0.341428	2928875.13
14S2362400	Integrated Circuit	U19,U22	Telcordia Issue 1	Level I		0.058933	2.00	1.0401	0.117866	16968377.18
1314512510	Integrated Circuit	U20,U29	Telcordia Issue 1	Level I		0.058933	2.00	1.0401	0.117866	16968377.18
14S3626400	Integrated Circuit	U24	Telcordia Issue 1	Level I	24.90	0.316904	1.00	2.7964	0.316904	3155533.15
14S5A00704	Integrated Circuit	U26	Telcordia Issue 1	Level I		0.026029	1.00	.2297	0.026029	38418616.55
123131435B	Miscellaneous	Y1	Telcordia Issue 1	Level I		0.150000	1.00	1.3236	0.150000	6666666.67
1231332721	Miscellaneous	Y2	Telcordia Issue 1	Level I		0.150000	1.00	1.3236	0.150000	6666666.67
1231325058	Miscellaneous	Y3,Y4	Telcordia Issue 1	Level I		0.150000	2.00	2.6472	0.300000	6666666.67
1121733780	Capacitor	C502,C508	Telcordia Issue 1	Level I		0.005462	2.00	.0964	0.010924	183081288.02
105A501413	Resistor	R302,R315	Telcordia Issue 1	Level I		0.002263	2.00	.0399	0.004527	441839332.19
14S4195710	Integrated Circuit	U30	Telcordia Issue 1	Level I	15.60	0.174439	1.00	1.5393	0.174439	5732676.86
14S4195710	Integrated Circuit	U28	Telcordia Issue 1	Level I	11.80	0.135275	1.00	1.1937	0.135275	7392359.48
14S9103200	Integrated Circuit	U9	Telcordia Issue 1	Level I		0.058933	1.00	.5200	0.058933	16968377.18
14S6821610	Integrated Circuit	U5	Telcordia Issue 1	Level I	21.10	0.712671	1.00	6.2887	0.712671	1403171.11
14S5A00702	Integrated Circuit	U27	Telcordia Issue 1	Level I		0.058933	1.00	.5200	0.058933	16968377.18
105A501529	Resistor	R415	Telcordia Issue 1	Level I		0.002263	1.00	.0200	0.002263	441839332.19

