

# COM-QM77

Rev. B

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 12.781135 ppm MTBF: 78,240 Hours
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Issue date

2012/08/23

Approval

Tom Lin

Test Engineer

Jessica Chou

# Reliability Prediction (MTBF)

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**I . Model Name:** COM-QM77 Rev.B (9697QM7734-D)

**II . Prediction Date:** Aug. 23, 2012

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

**IV . Predicted by:** Jessica Chou

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

## VI. Simulation Environment:

- Temperature: 25 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-QM77 Rev.B (9697QM7734-D):

- Failure Rate: 12.781135ppm
- MTBF: 78,240 Hours

### AAEON Reliability Prediction Report

**Part Number** 9697QM7734-D  
**Reference Des**  
**Date** 08. 23, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00

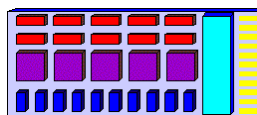


**Description** Top-level assembly  
**File Name** COM-QM77B.RPJ  
**Time** 17:40  
**Failure Rate** 12.781135  
**MTBF** 78,240

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-QM77 Rev.B	9697QM7734-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	12.78	78240.31

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**Description** Top-level assembly  
**File Name** COM-QM77B.RPJ  
**Time** 17:40  
**Failure Rate** 12.781135  
**MTBF** 78,240

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S4250010	Integrated Circuit	U1	Telcordia Issue 1	Level I	20.10	1.00	0.079204	.6197	12625625.92
1050502224	Resistor	R154,R155,R157, R158,R162,R163, R164,R165,R166, R167,R168,R170, R244,R261,R262, R263,R264,R265, R266,R267,R268, R271,R272,R346, R470,R471,R485, R507,R594,R650, R669	Telcordia Issue 1	Level I		31.00	0.002268	.5500	440974090.03
1050502234	Resistor	R104,R112,R425, R676	Telcordia Issue 1	Level I		4.00	0.002268	.0710	440974090.03
1050504724	Resistor	R108,R241,R252, R253,R385,R386, R402,R429,R431, R435,R437,R438, R441,R442,R443, R491,R494,R497, R558,R559	Telcordia Issue 1	Level I		20.00	0.002268	.3549	440974090.03
1050504734	Resistor	R217,R319,R320, R444,R452,R457	Telcordia Issue 1	Level I		6.00	0.002268	.1065	440974090.03
1050505134	Resistor	R685	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
1050505604	Resistor	R5,R713	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
1050507530	Resistor	R579,R617	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
1050510034	Resistor	R246,R247,R249, R250,R276,R277, R296,R352,R355, R548,R575,R587, R598,R599,R600, R601,R606,R608, R625,R630,R646, R647,R662,R691, R694,R695,R779, R780,R782,R786, R806,R810,R811	Telcordia Issue 1	Level I		33.00	0.002268	.5855	440974090.03
1050519114	Resistor	R711,R727	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
1050520004	Resistor	R136,R20,R7,R792, R794,R813	Telcordia Issue 1	Level I		6.00	0.002268	.1065	440974090.03
1050520034	Resistor	R327	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
1050524004	Resistor	R686	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
1050524904	Resistor	R1,R18	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
1050533034	Resistor	R114,R222	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
1050536514	Resistor	R748,R749,R759, R766	Telcordia Issue 1	Level I		4.00	0.002268	.0710	440974090.03



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105A503309	Resistor	R115,R125,R127, R128,R130,R134, R141,R142,R306, R307,R309,R310, R537,R539,R542	Telcordia Issue 1	Level I		15.00	0.002268	.2661	440974090.03
105A505109	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A505629	Resistor	R735	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A507509	Resistor	R22,R36	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
105A507533	Resistor	R593	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A510009	Resistor	R40,R43,R486,R521, R522,R556,R654	Telcordia Issue 1	Level I		7.00	0.002268	.1242	440974090.03
105A513009	Resistor	R21,R35,R714	Telcordia Issue 1	Level I		3.00	0.002268	.0532	440974090.03
105A513323	Resistor	R624	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A514009	Resistor	R4	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A514733	Resistor	R777	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A515009	Resistor	R273,R274,R275	Telcordia Issue 1	Level I		3.00	0.002268	.0532	440974090.03
105A515034	Resistor	R684	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A519133	Resistor	R589	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A520033	Resistor	R689	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A522663	Resistor	R298	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A523713	Resistor	R260	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A525563	Resistor	R6	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A526114	Resistor	R712,R728	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
105A526123	Resistor	R592	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A527423	Resistor	R719,R724	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
105A530113	Resistor	R401	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A535713	Resistor	R733	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A537463	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A538313	Resistor	R718,R723	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
105A539003	Resistor	R335	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A547033	Resistor	R590	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A549903	Resistor	R708	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A549919	Resistor	R28	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A549969	Resistor	R138,R220	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03
105A553629	Resistor	R683	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A557603	Resistor	R736	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
105A575009	Resistor	R140,R221	Telcordia Issue 1	Level I		2.00	0.002268	.0355	440974090.03





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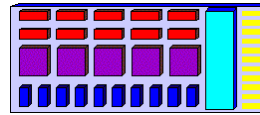


**Description** Top-level assembly  
**File Name** COM-QM77B.RPJ  
**Time** 17:40  
**Failure Rate** 12.781135  
**MTBF** 78,240

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105B700009	Resistor	R12,R120,R123,R132, R133,R139,R143, R144,R147,R15,R153, R156,R169,R171, R173,R175,R177, R180,R181,R225, R226,R228,R230, R231,R232,R234, R235,R237,R294, R295,R299,R300, R301,R302,R303, R322,R323,R349,R38, R380,R381,R384,	Telcordia Issue 1	Level I		88.00	0.002268	1.5613	440974090.03
106B501032	Resistor	RT1,RT2,RT4,RT6	Telcordia Issue 1	Level I		4.00	0.011379	.3561	87878027.07
106B747030	Resistor	RT5,RT7	Telcordia Issue 1	Level I		2.00	0.011379	.1781	87878027.07
1121501690	Capacitor	C373,C383,C385, C408,C417,C418, C426,C430,C437, C461,C465,C481	Telcordia Issue 1	Level I		12.00	0.004535	.4258	220487045.01
1121647480	Capacitor	C476	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
1124418090	Capacitor	C136,C138,C176, C177	Telcordia Issue 1	Level I		4.00	0.004535	.1419	220487045.01
1124433090	Capacitor	C300,C303	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1124515180	Capacitor	C458,C478	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1124522680	Capacitor	C400,C427,C462, C488,C489,C495, C535	Telcordia Issue 1	Level I		7.00	0.004535	.2484	220487045.01
1124522880	Capacitor	C244,C477	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1124533190	Capacitor	C454	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
1124547190	Capacitor	C455,C474	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1124547290	Capacitor	C387,C434	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1124582880	Capacitor	C463	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01

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**Time** 17:40  
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**MTBF** 78,240

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129522790	Capacitor	C308,C309,C310, C311,C312,C313, C314,C315,C316, C317,C318,C319, C320,C321,C322, C323,C324,C325, C326,C327,C328, C329,C330,C331, C332,C333,C334, C335,C336,C337, C338,C339,C464, C470,C471,C472	Telcordia Issue 1	Level I		36.00	0.004535	1.2775	220487045.01
1129610080	Capacitor	C108,C109,C118, C119,C120,C121, C122,C123,C132, C133,C20,C21,C22, C23,C240,C250,C264, C290,C301,C306,C33, C34,C35,C355,C36, C37,C380,C407,C412, C413,C431,C443, C444,C449,C451, C452,C522,C523, C524,C525,C526, C527,C528,C529,	Telcordia Issue 1	Level I		77.00	0.004535	2.7324	220487045.01
1129701790	Capacitor	C141,C142,C143, C144,C145,C146, C147,C148,C149, C150,C151,C152, C153,C154,C155, C156,C247,C249, C258,C349,C379, C381,C382,C389, C392,C428,C429, C432,C442,C482, C552,C555	Telcordia Issue 1	Level I		32.00	0.004535	1.1355	220487045.01
1129710090	Capacitor	C352,C357,C358	Telcordia Issue 1	Level I		3.00	0.004535	.1065	220487045.01
1129710390	Capacitor	C360,C401,C402, C421,C447,C490, C491,C496,C544	Telcordia Issue 1	Level I		9.00	0.004535	.3194	220487045.01
1129747090	Capacitor	C456,C475	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1189615151	Capacitor	TC11,TC13,TC14, TC16,TC21,TC9	Telcordia Issue 1	Level I		6.00	0.004535	.2129	220487045.01

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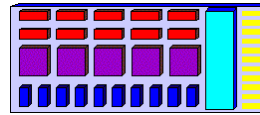


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**File Name** COM-QM77B.RPJ  
**Time** 17:40  
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**MTBF** 78,240

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1189622150	Capacitor	C279,C284	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1189622153	Capacitor	TC18,TC20	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
1189633163	Capacitor	TC1,TC19,TC24,TC3, TC31,TC8	Telcordia Issue 1	Level I		6.00	0.004535	.2129	220487045.01
1189656180	Capacitor	TC25,TC26,TC27, TC28,TC29,TC30, TC32,TC33,TC34,TC5, TC6,TC7	Telcordia Issue 1	Level I		12.00	0.004535	.4258	220487045.01
1189922181	Capacitor	TC10	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
11A4439080	Capacitor	C469	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
11C1547890	Capacitor	C3	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
11C2501050	Capacitor	C399,C422	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
11C2510190	Capacitor	C375,C377,C484, C485,C486,C487, C493,C494,C530, C531	Telcordia Issue 1	Level I		10.00	0.004535	.3549	220487045.01
11C2510480	Capacitor	C374,C376,C406, C565	Telcordia Issue 1	Level I		4.00	0.004535	.1419	220487045.01
11C4547690	Capacitor	C372	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
11C4568190	Capacitor	C479	Telcordia Issue 1	Level I		1.00	0.004535	.0355	220487045.01
11E2522090	Capacitor	C397,C602	Telcordia Issue 1	Level I		2.00	0.004535	.0710	220487045.01
11E9501091	Capacitor	C10,C104,C105,C106, C107,C11,C12,C128, C129,C13,C130,C131, C137,C139,C14,C140, C15,C16,C17,C18, C181,C19,C241,C248, C25,C252,C26,C263, C265,C266,C267, C268,C27,C270,C271, C272,C273,C274,C28, C280,C281,C282, C283,C285,C286, C287,C29,C293,C	Telcordia Issue 1	Level I		113.00	0.004535	4.0098	220487045.01

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11E9510490	Capacitor	C1,C100,C101,C102, C103,C110,C111, C112,C114,C116, C124,C125,C126, C127,C134,C135, C157,C158,C159, C160,C161,C162, C163,C164,C165, C166,C167,C168, C169,C170,C171, C172,C173,C175, C182,C183,C186, C187,C188,C189,	Telcordia Issue 1	Level I		131.00	0.004535	4.6486	220487045.01
11E9522680	Capacitor	C113,C433,C438, C560,C89	Telcordia Issue 1	Level I		5.00	0.004535	.1774	220487045.01
11E9622050	Capacitor	C243,C259,C262, C269,C394,C395, C414,C419,C420, C423,C436,C497, C498,C499,C500, C501,C503,C504, C505,C506,C507, C508,C509,C510, C512,C513,C514, C576,C577,C579, C580,C581,C582, C583,C585,C586, C587,C588,C589,	Telcordia Issue 1	Level I		43.00	0.004535	1.5259	220487045.01
1211100113	Inductor	L2,L5,L6	Telcordia Issue 1	Level I		3.00	0.002268	.0532	440974090.03
1211100160	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
1211101064	Inductor	L16	Telcordia Issue 1	Level I		1.00	0.086173	.6742	11604581.32
121110106S	Inductor	L14	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
121110226V	Inductor	L22	Telcordia Issue 1	Level I		1.00	0.086173	.6742	11604581.32
1211103671	Inductor	L17,L18,L19,L20	Telcordia Issue 1	Level I		4.00	0.086173	2.6969	11604581.32
121110476M	Inductor	L11,L15	Telcordia Issue 1	Level I		2.00	0.086173	1.3484	11604581.32
121110476V	Inductor	L9	Telcordia Issue 1	Level I		1.00	0.086173	.6742	11604581.32
1211105675	Inductor	L13	Telcordia Issue 1	Level I		1.00	0.086173	.6742	11604581.32
12123C0007	Inductor	L1	Telcordia Issue 1	Level I		1.00	0.002268	.0177	440974090.03
123132505D	Miscellaneous	Y2,Y3	Telcordia Issue 1	Level I		2.00	0.150000	2.3472	6666666.67
1231332722	Miscellaneous	Y1,Y4	Telcordia Issue 1	Level I		2.00	0.150000	2.3472	6666666.67

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1301005444	Semiconductor	D1,D17,D2,D29,D3, D30,D5,D6,D7,D8	Telcordia Issue 1	Level I		10.00	0.023881	1.8685	41874327.58
1301005447	Semiconductor	D11,D24	Telcordia Issue 1	Level I		2.00	0.023881	.3737	41874327.58
1301005450	Semiconductor	D10,D12,D13,D14, D15,D16,D18,D19, D20,D21,D22,D23, D25,D26,D27,D4,D9	Telcordia Issue 1	Level I		17.00	0.023881	3.1764	41874327.58
1301053040	Semiconductor	D28	Telcordia Issue 1	Level I		1.00	0.023881	.1868	41874327.58
1304001340	Semiconductor	LED1,LED2	Telcordia Issue 1	Level I		2.00	0.004877	.0763	205063180.81
1304300140	Semiconductor	LED3	Telcordia Issue 1	Level I		1.00	0.004877	.0382	205063180.81
1309009940	Semiconductor	Q10,Q9	Telcordia Issue 1	Level I		2.00	0.079603	1.2456	12562298.27
1310390413	Semiconductor	Q14,Q15,Q51,Q55, Q75,Q76	Telcordia Issue 1	Level I		6.00	0.023881	1.1211	41874327.58
1311390612	Semiconductor	Q8	Telcordia Issue 1	Level I		1.00	0.023881	.1868	41874327.58
1315013810	Semiconductor	Q7	Telcordia Issue 1	Level I		1.00	0.079603	.6228	12562298.27
1315033510	Semiconductor	Q2,Q3,Q4	Telcordia Issue 1	Level I		3.00	0.000000	.0000	.00
1315035110	Semiconductor	Q45	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315482110	Semiconductor	Q30,Q39,Q41,Q70	Telcordia Issue 1	Level I		4.00	0.079603	2.4913	12562298.27
1315482410	Semiconductor	Q31,U44,U59	Telcordia Issue 1	Level I		3.00	0.079603	1.8685	12562298.27
1315493511	Semiconductor	Q42	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315493910	Semiconductor	Q40	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315495710	Integrated Circuit	Q32	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
1315667910	Semiconductor	Q37	Telcordia Issue 1	Level I		1.00	0.159207	1.2456	6281149.14
1315700216	Semiconductor	Q1,Q12,Q13,Q16,Q17, Q18,Q19,Q20,Q21, Q22,Q23,Q24,Q25, Q26,Q27,Q29,Q34, Q35,Q36,Q38,Q44, Q50,Q56,Q57,Q68, Q69,Q71,Q72,Q73, Q74,Q77,Q78,Q79, Q81,Q82	Telcordia Issue 1	Level I		35.00	0.079603	21.7986	12562298.27
1315805710	Semiconductor	Q60,Q61,Q63,Q65	Telcordia Issue 1	Level I		4.00	0.000000	.0000	.00
1315806210	Semiconductor	Q53	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315806510	Semiconductor	Q52	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315806511	Semiconductor	Q33,Q58,Q59,Q62, Q64	Telcordia Issue 1	Level I		5.00	0.000000	.0000	.00
14S2083600	Integrated Circuit	U46	Telcordia Issue 1	Level I		1.00	0.026183	.2049	38193355.79
14S2321900	Semiconductor	U37	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
14S2951600	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
14S3121600	Integrated Circuit	U43	Telcordia Issue 1	Level I		1.00	0.032000	.2504	31250122.20

### AAEON Reliability Prediction Report

**Part Number** 9697QM7734-D  
**Reference Des**  
**Date** 08. 23, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 25.00



**Description** Top-level assembly  
**File Name** COM-QM77B.RPJ  
**Time** 17:40  
**Failure Rate** 12.781135  
**MTBF** 78,240

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S3121700	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
14S3146100	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
14S3621601	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
14S4081102	Integrated Circuit	U56	Telcordia Issue 1	Level I		1.00	0.026183	.2049	38193355.79
14S4257900	Integrated Circuit	U23	Telcordia Issue 1	Level I	11.40	1.00	0.049927	.3906	20029281.03
14S4851800	Integrated Circuit	U32	Telcordia Issue 1	Level I	18.10	1.00	0.071392	.5586	14007100.01
14S4963501	Integrated Circuit	U31	Telcordia Issue 1	Level I	15.40	1.00	0.173289	1.3558	5770707.32
14S4QM7700	Integrated Circuit	U10	Telcordia Issue 1	Level I	19.40	1.00	0.076389	.5977	13090962.03
14S5A00702	Integrated Circuit	U13,U27	Telcordia Issue 1	Level I		2.00	0.059366	.9290	16844654.92
14S5A00704	Integrated Circuit	U11,U12	Telcordia Issue 1	Level I		2.00	0.026183	.4097	38193355.79
14S5A00821	Integrated Circuit	U22,U49,U50,U51, U52,U53,U54,U55, U57,U58	Telcordia Issue 1	Level I		10.00	0.026183	2.0485	38193355.79
14S5A01402	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.026183	.2049	38193355.79
14S5A12506	Integrated Circuit	U25,U28,U29	Telcordia Issue 1	Level I		3.00	0.026183	.6146	38193355.79
14S6201602	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.4645	16844654.92
14S6212844	Integrated Circuit	U26	Telcordia Issue 1	Level I	12.40	1.00	0.052716	.4125	18969592.18
14S9230500	Integrated Circuit	U38,U42	Telcordia Issue 1	Level I		2.00	0.059366	.9290	16844654.92
14S9330600	Integrated Circuit	U17,U18,U20,U21	Telcordia Issue 1	Level I		4.00	0.059366	1.8579	16844654.92
14S9620810	Semiconductor	U47	Telcordia Issue 1	Level I		1.00	0.676628	5.2940	1477917.44
1540782282	Resistor	RP1,RP2	Telcordia Issue 1	Level I		2.00	0.012492	.1955	80051386.00
16515A2994	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.001138	.0089	878780270.71
16515A2992	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001138	.0089	878780270.71
1653212100	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.006828	.0534	146463378.45
16540M0001	Connection	CN4,CN5	Telcordia Issue 1	Level I		2.00	0.125173	1.9587	7988911.55
1655902130	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.001138	.0089	878780270.71
1655907130	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001138	.0089	878780270.71
1600000403	Connection	SW1	Telcordia Issue 1	Level I		1.00	0.001138	.0089	878780270.71