



AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

SBC-658

Reliability Prediction Report

(MTBF)

Release Date: JUL.12, 2000

Issue Stamp

QA Manager

QE Manager

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: SBC-658

II . Description:Half-size CPU Board with LCD, Ethernet , & SSD

III . Prediction Date: JUL. 12, 2000

IV. Prediction Site: AAEON QE Dept.

V . Predicted by : Milo Wang

VI.Equipment: Relex Ver.7.1 Visual Reliability Software

VII. Simulation Environment:

- **Temperature: 25 degrees C**
- **Standard: Telcordia (Bellcore) Standard**

VIII. Prediction Result:

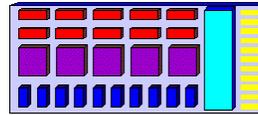
- **Failure Rate: 12.106362 ppm**
- **MTBF: 82,601. Hours**

IX.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.**

AAEON Reliability Prediction Report

Part Number 9697658000
Reference Des
Date 07. 12, 2000
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

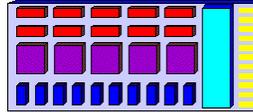


Description Top-level assembly
File Name SBC-658A0.1.RPJ
Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
SBC-658	9697658000	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.106362	82,601

AAEON Reliability Prediction Report

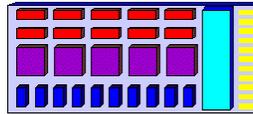
Part Number 9697658000
Reference Des
Date 07. 12, 2000
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name SBC-658A0.1.RPJ
Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124410080	Capacitor	C106,C121,C133,C14-20,C3-6,CC1-8,CC11-21	Bellcore Issue 6	Level I		0.001060	31.00	.2715	0.032867	943198589.05
1124447080	Capacitor	CC10,CC15-16,CC9,M115	Bellcore Issue 6	Level I		0.001060	5.00	.0438	0.005301	943198589.05
1129747650	Capacitor	C100-103,C105,C107,C118-119,C-129,C23-24,C39,C43,C45-47,C50--54,C56,C62,C66,C68-69,C71-75,C-77,C79-81,C83-85,C87-88,C90-93,-C95-97,CC22	Bellcore Issue 6	Level I		0.005466	49.00	2.2122	0.267816	182961702.19
1653025202	Connection	CN2	Bellcore Issue 6	Level I		0.028449	1.00	.2350	0.028449	35151210.83
1653013202	Connection	CN4	Bellcore Issue 6	Level I		0.014793	1.00	.1222	0.014793	67598482.36
1653005202	Connection	CN5	Bellcore Issue 6	Level I		0.005690	1.00	.0470	0.005690	175756054.14
1653007203	Connection	CN6	Bellcore Issue 6	Level I		0.007966	1.00	.0658	0.007966	125540038.67
1653022202	Connection	CN10	Bellcore Issue 6	Level I		0.025035	1.00	.2068	0.025035	39944557.76
1653017201	Connection	CN12	Bellcore Issue 6	Level I		0.019345	1.00	.1598	0.019345	51692957.10
1124510280	Capacitor	C1,C60,C76,C78,C94	Bellcore Issue 6	Level I		0.001060	5.00	.0438	0.005301	943198589.05
1124547180	Capacitor	C2,C64	Bellcore Issue 6	Level I		0.001060	2.00	.0175	0.002120	943198589.05
1124415080	Capacitor	C8-9	Bellcore Issue 6	Level I		0.001060	2.00	.0175	0.002120	943198589.05
1124420050	Capacitor	C22,C26,C61	Bellcore Issue 6	Level I		0.001060	3.00	.0263	0.003181	943198589.05
1129701080	Capacitor	C108,C122-124,C25,C38,M17	Bellcore Issue 6	Level I		0.005466	7.00	.3160	0.038259	182961702.19
1124547280	Capacitor	C28	Bellcore Issue 6	Level I		0.001060	1.00	.0088	0.001060	943198589.05
1124510180	Capacitor	C29	Bellcore Issue 6	Level I		0.001060	1.00	.0088	0.001060	943198589.05
1124522180	Capacitor	C31	Bellcore Issue 6	Level I		0.001060	1.00	.0088	0.001060	943198589.05
1121747660	Capacitor	C104,C109,C112,C120,C125-126,-C130,C32,C44,C55,C59,C63,C65,-C67,C70,C82,C89	Bellcore Issue 6	Level I		0.002539	17.00	.3565	0.043163	393852661.82
1122701680	Capacitor	M1-11,MM13-114,MM116-149	Bellcore Issue 6	Level I		0.001598	146.00	1.9266	0.233244	625953979.55
1149633190	Capacitor	C113,C115-117,C127-128,C134-1-35,C34-37,C99	Bellcore Issue 6	Level I		0.004933	13.00	.5297	0.064127	202722669.92
1141633080	Capacitor	C114	Bellcore Issue 6	Level I		0.002357	1.00	.0195	0.002357	424256814.77
1149610180	Capacitor	C57-58	Bellcore Issue 6	Level I		0.004535	2.00	.0749	0.009071	220487045.01
1142610060	Capacitor	C86,C98	Bellcore Issue 6	Level I		0.001587	2.00	.0262	0.003174	630075050.70
1129610260	Capacitor	C110,C33	Bellcore Issue 6	Level I		0.000712	2.00	.0118	0.001425	1403854412.74
14S3006000	Integrated Circuit	DN1	Bellcore Issue 6	Level I		0.059366	1.00	.4904	0.059366	16844654.92
1300014040	Semiconductor	D1,D6	Bellcore Issue 6	Level I		0.023881	2.00	.3945	0.047762	41874327.58

AAEON Reliability Prediction Report



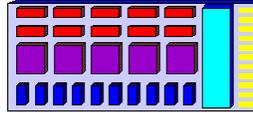
Part Number 9697658000
Reference Des
Date 07. 12, 2000
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

Description Top-level assembly
File Name SBC-658A0.1.RPJ
Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300003240	Semiconductor	D2	Bellcore Issue 6	Level I		0.023881	1.00	.1973	0.023881	41874327.58
1300283540	Semiconductor	D3	Bellcore Issue 6	Level I		0.023881	1.00	.1973	0.023881	41874327.58
1300414840	Semiconductor	D4	Bellcore Issue 6	Level I		0.023881	1.00	.1973	0.023881	41874327.58
1301005440	Semiconductor	D5	Bellcore Issue 6	Level I		0.023881	1.00	.1973	0.023881	41874327.58
1752311000	Miscellaneous	FS1-4	Bellcore Issue 6	Level I		0.030000	4.00	.9912	0.120000	33333333.33
1540700080	Resistor	ITL1	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
1653003202	Connection	J1	Bellcore Issue 6	Level I		0.003414	1.00	.0282	0.003414	292926756.90
105A501033	Resistor	R185-187,R196,R198,R96	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03
1212306031	Inductor	L15-19,L23-26,LLL1-4	Bellcore Issue 6	Level I		0.002268	13.00	.2435	0.029480	440974090.03
1212308050	Inductor	L1-3,L6-14,L20-21,L27-29,L31	Bellcore Issue 6	Level I		0.002268	18.00	.3372	0.040819	440974090.03
1211102200	Inductor	L22	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1174510180	Capacitor	NC1-2,NC4-5	Bellcore Issue 6	Level I		0.001060	1,600.-	14.0121	1.696355	943198589.05
1174547080	Capacitor	NC3,NC6-8	Bellcore Issue 6	Level I		0.001060	16.00	.1401	0.016964	943198589.05
1233325051	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.150000	1.00	1.2390	0.150000	6666666.67
1231314321	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.2390	0.150000	6666666.67
1314108312	Integrated Circuit	Q1,Q2	Bellcore Issue 6	Level I	31.00	0.463063	2.00	7.6499	0.926126	2159533.43
1314108410	Integrated Circuit	Q3	Bellcore Issue 6	Level I	20.00	0.233882	1.00	1.9319	0.233882	4275661.99
1314101010	Integrated Circuit	Q4	Bellcore Issue 6	Level I	19.00	0.219285	1.00	1.8113	0.219285	4560283.10
1315500310	Semiconductor	Q5,Q6	Bellcore Issue 6	Level I	30.00	0.174232	2.00	2.8784	0.348464	5739470.03
1540782280	Resistor	RN1-2,RN16,RN19,RN22,RN24-31- RN33,RN35-36,RN4	Bellcore Issue 6	Level I		0.006246	17.00	.8771	0.106182	160102772.00
1540747282	Resistor	RN18,RN23,RN3	Bellcore Issue 6	Level I		0.006246	3.00	.1548	0.018738	160102772.00
1540722080	Resistor	RN11-12,RN17,RN5-9	Bellcore Issue 6	Level I		0.006246	8.00	.4127	0.049968	160102772.00
1540701380	Resistor	RN10	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
1540715380	Resistor	RN13	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
1540775080	Resistor	RN14-15,RN20,RN32,RN34	Bellcore Issue 6	Level I		0.006246	5.00	.2580	0.031230	160102772.00
1540775080	Resistor	RN21	Bellcore Issue 6	Level I		0.006246	1.00	.0516	0.006246	160102772.00
15407560A0	Resistor	RP1-14	Bellcore Issue 6	Level I		0.007807	14.00	.9029	0.109305	128082217.60
105A700003	Resistor	C131-132,R287,R296,R300,R37,R- 45,R50,RR10,RR12,RR14,RR5	Bellcore Issue 6	Level I		0.002268	12.00	.2248	0.027212	440974090.03
105A511503	Resistor	R143-144,RR2,RR4	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03
105A518703	Resistor	RR1,RR3	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03

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Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

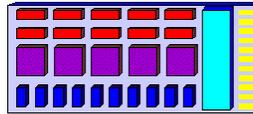


Description Top-level assembly
File Name SBC-658A0.1.RPJ
Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A515003	Resistor	R111,R117,R130,R147,R180,R220-R222,RR8-9	Bellcore Issue 6	Level I		0.002268	9.00	.1686	0.020409	440974090.03
105A756033	Resistor	R1,R94	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A747033	Resistor	R2,R95	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A701003	Resistor	R3-11,R140,R188,R205,R212,R23--25,R241-254,R256-259,R261-262,-R264-280,R28-31,R282,R284-285,-R294-295,R298,R33-34,R52,R61,R70-89,R99	Bellcore Issue 6	Level I		0.002268	89.00	1.6671	0.201826	440974090.03
105A704723	Resistor	R102,R113,R115,R12,R123,R131,-R14,R141,R170-171,R233,R49,R60-R66,R97-98	Bellcore Issue 6	Level I		0.002268	16.00	.2997	0.036283	440974090.03
105A710033	Resistor	R112,R13,R56	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A561903	Resistor	R120,R125,R15	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A554903	Resistor	R17	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A747003	Resistor	R18,R202	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A708223	Resistor	R114,R133,R135,R137,R139,R145-R153,R155,R158-162,R172,R183,-R19,R192,R20-21,R201,R208-209,-R210,R217,R229-232,R235-237,R-283,R39,R43-44,R65	Bellcore Issue 6	Level I		0.002268	36.00	.6743	0.081637	440974090.03
105A510003	Resistor	R118,R200,R22,R35,R62,R91	Bellcore Issue 6	Level I		0.002268	6.00	.1124	0.013606	440974090.03
105A704703	Resistor	R32	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A703303	Resistor	R104,R136,R36,R38,R63	Bellcore Issue 6	Level I		0.002268	5.00	.0937	0.011339	440974090.03
105A700133	Resistor	R122,R149,R163,R167,R177,R213-216,R224-225,R234,R238,R240,R-40	Bellcore Issue 6	Level I		0.002268	15.00	.2810	0.034016	440974090.03
105A702723	Resistor	R103,R106,R119,R124,R126,R134-R138,R168,R184,R194,R203-204,-R207,R211,R41	Bellcore Issue 6	Level I		0.002268	15.00	.2810	0.034016	440974090.03
105A702053	Resistor	R42	Bellcore Issue 6	Level I		0.013606	1.00	.1124	0.013606	73495681.67
105A707503	Resistor	R132,R169,R173,R46	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03
105A733003	Resistor	R148,R152,R157,R174-176,R178--179,R193,R195,R218-219,R221,R-228,R255,R260,R281,R47,R54,R64-R67	Bellcore Issue 6	Level I		0.002268	21.00	.3934	0.047622	440974090.03
105A701033	Resistor	R263,R48,R90,R93	Bellcore Issue 6	Level I		0.002268	4.00	.0749	0.009071	440974090.03

AAEON Reliability Prediction Report

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Reference Des
Date 07. 12, 2000
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

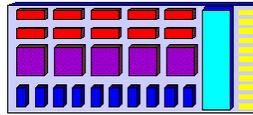


Description Top-level assembly
File Name SBC-658A0.1.RPJ
Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A707523	Resistor	R51	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A705603	Resistor	R53,R69	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A504763	Resistor	R55,R58	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A702203	Resistor	R57,R59,R92	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A702233	Resistor	R68	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A556003	Resistor	R101	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A706233	Resistor	R105	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A507503	Resistor	R116,R129,R181	Bellcore Issue 6	Level I		0.002268	3.00	.0562	0.006803	440974090.03
105A722003	Resistor	R121	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A701533	Resistor	R127-128	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A705623	Resistor	R142,R146,R154,R156,R164,R223-R226-227,R239	Bellcore Issue 6	Level I		0.002268	9.00	.1686	0.020409	440974090.03
105A768003	Resistor	R150	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A720003	Resistor	R151	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A505103	Resistor	R166,R182	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A560423	Resistor	R189-190	Bellcore Issue 6	Level I		0.002268	2.00	.0375	0.004535	440974090.03
105A590923	Resistor	R191	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A502833	Resistor	R197	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
105A521033	Resistor	R199	Bellcore Issue 6	Level I		0.002268	1.00	.0187	0.002268	440974090.03
1600001203	Switching Device	SW1	Bellcore Issue 6	Level I		0.071121	1.00	.5875	0.071121	14060484.33
14S3000300	Integrated Circuit	TF1	Bellcore Issue 6	Level I	12.00	0.138049	1.00	1.1403	0.138049	7243806.82
14S4021300	Integrated Circuit	U1,U12	Bellcore Issue 6	Level I	8.00	0.104969	2.00	1.7341	0.209938	9526603.44
14S3924800	Integrated Circuit	U2	Bellcore Issue 6	Level I	29.00	0.410383	1.00	3.3898	0.410383	2436748.16
14S4244300	Integrated Circuit	U3	Bellcore Issue 6	Level I	10.00	0.069400	1.00	.5733	0.069400	14409189.92
14S4900010	Integrated Circuit	U4	Bellcore Issue 6	Level I	19.00	0.112292	1.00	.9275	0.112292	8905354.44
14S4255901	Integrated Circuit	U5A	Bellcore Issue 6	Level I	17.00	0.101144	1.00	.8355	0.101144	9886920.11
14S6334610	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.030598	1.00	.2527	0.030598	32681842.61
14S4048500	Integrated Circuit	U7-8	Bellcore Issue 6	Level I	12.00	0.138049	2.00	2.2806	0.276098	7243806.82
14S3128420	Integrated Circuit	U9	Bellcore Issue 6	Level I	12.00	0.138049	1.00	1.1403	0.138049	7243806.82
14S4397700	Integrated Circuit	U11	Bellcore Issue 6	Level I	13.00	0.081727	1.00	.6751	0.081727	12235812.22
14S4237120	Integrated Circuit	U13	Bellcore Issue 6	Level I	14.00	0.086245	1.00	.7124	0.086245	11594908.63

AAEON Reliability Prediction Report

Part Number 9697658000
Reference Des
Date 07. 12, 2000
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



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Time 3:02 PM
Failure Rate 12.106362
MTBF 82,601

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S8416815	Integrated Circuit	U14	Bellcore Issue 6	Level I	15.00	0.090981	1.00	.7515	0.090981	10991353.05
14S3175300	Integrated Circuit	U15	Bellcore Issue 6	Level I	19.00	0.219285	1.00	1.8113	0.219285	4560283.10
14S4378100	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.059366	1.00	.4904	0.059366	16844654.92
14S4070610	Integrated Circuit	U17	Bellcore Issue 6	Level I	9.00	0.145685	1.00	1.2034	0.145685	6864117.86
1651203291	Connection	U18	Bellcore Issue 6	Level I	7.00	0.026029	1.00	.2150	0.026029	38419399.70
14S5324500	Integrated Circuit	U19	Bellcore Issue 6	Level I	11.00	0.108459	1.00	.8959	0.108459	9220105.49
14S5A15700	Integrated Circuit	U20	Bellcore Issue 6	Level I	8.00	0.060413	1.00	.4990	0.060413	16552637.72
14S5500700	Integrated Circuit	U21,U27	Bellcore Issue 6	Level I	11.00	0.105918	2.00	1.7498	0.211836	9441243.91
14S5801400	Integrated Circuit	U22	Bellcore Issue 6	Level I	10.00	0.066916	1.00	.5527	0.066916	14944178.00
14S5A01400	Integrated Circuit	U23-24	Bellcore Issue 6	Level I	11.00	0.128997	2.00	2.1311	0.257994	7752127.40
1315344710	Integrated Circuit	U25	Bellcore Issue 6	Level I		0.059366	1.00	.4904	0.059366	16844654.92
1231332721	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.2390	0.150000	6666666.67
1907658000	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	7.4341	0.900000	1111111.11
1759100002	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.2390	0.150000	6666666.67
1653005201	Connection	CN1	Bellcore Issue 6	Level I		0.005690	1.00	.0470	0.005690	175756054.14
1655005021	Connection	CN3	Bellcore Issue 6	Level I		0.002845	1.00	.0235	0.002845	351512108.28
1655003000	Connection	CN7	Bellcore Issue 6	Level I		0.001707	1.00	.0141	0.001707	585853513.81
1654515305	Connection	CN8	Bellcore Issue 6	Level I		0.008535	1.00	.0705	0.008535	117170702.76
1652512200	Connection	CN9	Bellcore Issue 6	Level I		0.006828	1.00	.0564	0.006828	146463378.45
1654409106	Connection	CN11	Bellcore Issue 6	Level I		0.005121	1.00	.0423	0.005121	195284504.60
1653132220	Connection	CN13	Bellcore Issue 6	Level I		0.036414	1.00	.3008	0.036414	27461883.46
1653120225	Connection	CN14	Bellcore Issue 6	Level I		0.022759	1.00	.1880	0.022759	43939013.54
1654606303	Connection	CN15	Bellcore Issue 6	Level I		0.003414	1.00	.0282	0.003414	292926756.90
1651607920	Connection	CPU1	Bellcore Issue 6	Level I		0.210519	1.00	1.7389	0.210519	4750163.63
1119610291	Capacitor	C11-13,C21,C27,C40-42,C48-49,C7	Bellcore Issue 6	Level I		0.075338	11.00	6.8453	0.828720	13273483.15
1651584490	Connection	DIM1	Bellcore Issue 6	Level I		0.095587	1.00	.7896	0.095587	10461669.89
1653003201	Connection	J2,J3*2	Bellcore Issue 6	Level I		0.003414	3.00	.0846	0.010241	292926756.90
1653003101	Connection	J4	Bellcore Issue 6	Level I		0.001707	1.00	.0141	0.001707	585853513.81
106B501030	Resistor	J5	Bellcore Issue 6	Level I		0.011379	1.00	.0940	0.011379	87878027.07
1211102764	Inductor	L4	Bellcore Issue 6	Level I		0.086173	1.00	.7118	0.086173	11604581.32
1211100101	Inductor	L5	Bellcore Issue 6	Level I		0.086173	1.00	.7118	0.086173	11604581.32

