



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

# **PCM-5897**

## **Reliability Prediction Report**

### **(MTBF)**

**Release Date: JUL.21, 2000**

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**Issue Stamp**

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**QA Manager**

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**QE Manager**

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**Test Engineer**

# Reliability Prediction (MTBF)

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**I . Model Name: PCM-5897**

**II . Description: Compact Board with LCD, Audio, TV Out, LAN, &4 COMs**

**III. Prediction Date: JUL. 21, 2000**

**IV. Prediction Site: AAEON QE Dept.**

**V . Predicted by : Milo Wang**

**VI. Equipment: Relx Ver.7.1 Visual Reliability Software**

**VII. Simulation Environment:**

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

**VIII. Prediction Result:**

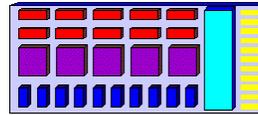
- **Failure Rate: 12.609589 ppm**
- **MTBF: 79,305. Hours**

**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** 9697589700  
**Reference Des**  
**Date** 07. 21, 2000  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

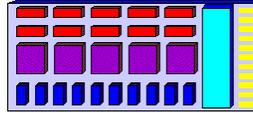


**Description** Top-level assembly  
**File Name** PCM-5897A0.2.RPJ  
**Time** 9:40 AM  
**Failure Rate** 12.609589  
**MTBF** 79,305

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PCM-5897	9697589700	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.609589	79,305

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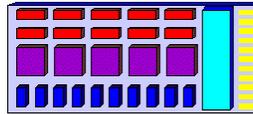


**Description** Top-level assembly  
**File Name** PCM-5897A0.2.RPJ  
**Time** 9:40 AM  
**Failure Rate** 12.609589  
**MTBF** 79,305

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122701680	Capacitor	C1,C105,C12-14,C16,C23-24,C3.C-62,C64,C67,C71,C78-83,C88,C95,-CB1,CB10,CB100-102,CB104-109,-CB11,CB113-114,CB12-16,CB19,-CB2,CB20-61,CB3-9,CB64-74,CB7-6-99,CP17,CP66	Bellcore Issue 6	Level I		0.001598	128.00	1.6217	0.204488	625953979.55
1121701050	Capacitor	C103,C110,C15,C61,C86-87,CB62-63,CM1-56	Bellcore Issue 6	Level I		0.002539	64.00	1.2887	0.162497	393852661.82
1121701060	Capacitor	CB75	Bellcore Issue 6	Level I		0.002539	1.00	.0201	0.002539	393852661.82
1124522180	Capacitor	CP1-16,CP42-57	Bellcore Issue 6	Level I		0.001060	32.00	.2691	0.033927	943198589.05
1124410080	Capacitor	C11,C30,C32-33,C35-36,C38,C41,-C45-46,C68-70,CP18-20,CX3-4	Bellcore Issue 6	Level I		0.001060	18.00	.1513	0.019084	943198589.05
1124518180	Capacitor	CP25-41	Bellcore Issue 6	Level I		0.001060	18.00	.1513	0.019084	943198589.05
1124510280	Capacitor	C10,C2,C4-7,CP58-61,CP63,CP57-58	Bellcore Issue 6	Level I		0.001060	14.00	.1177	0.014843	943198589.05
1124522880	Capacitor	C63,CP62,CP64-65	Bellcore Issue 6	Level I		0.001060	4.00	.0336	0.004241	943198589.05
1141610050	Capacitor	C47,CT1,CT11,CT13,CT16-19,CT2-1,CT24-36,CT3,CT47,CT52-62,CT6-C,CT67-71,CT73-74,CT9	Bellcore Issue 6	Level I		0.002357	44.00	.8225	0.103711	424256814.77
1142610060	Capacitor	CT2,CT4,CT7-8	Bellcore Issue 6	Level I		0.001587	4.00	.0503	0.006348	630075050.70
1149610180	Capacitor	CT14-15,CT63-64	Bellcore Issue 6	Level I		0.004535	4.00	.1439	0.018142	220487045.01
1149633190	Capacitor	CT20,CT22-23	Bellcore Issue 6	Level I		0.004933	3.00	.1174	0.014799	202722669.92
1149622050	Capacitor	CT49-50	Bellcore Issue 6	Level I		0.004535	2.00	.0719	0.009071	220487045.01
1124422080	Capacitor	C31,C34,C37,C39-40,C42-44,CX5--10	Bellcore Issue 6	Level I		0.001060	14.00	.1177	0.014843	943198589.05
1124556180	Capacitor	C8-9	Bellcore Issue 6	Level I		0.001060	2.00	.0168	0.002120	943198589.05
1124447080	Capacitor	C25-28,C49-60,C72-75	Bellcore Issue 6	Level I		0.001060	20.00	.1682	0.021204	943198589.05
1124501780	Capacitor	C65	Bellcore Issue 6	Level I		0.001060	1.00	.0084	0.001060	943198589.05
1124433080	Capacitor	C66,C76-77	Bellcore Issue 6	Level I		0.001060	3.00	.0252	0.003181	943198589.05
1124527280	Capacitor	C100-102,C104,C113-114,C84-85,-CP21-24	Bellcore Issue 6	Level I		0.001060	13.00	.1093	0.013783	943198589.05
1124527280	Capacitor	C91	Bellcore Issue 6	Level I		0.001060	1.00	.0084	0.001060	943198589.05
1122722780	Capacitor	C93-94,C96	Bellcore Issue 6	Level I		0.001598	3.00	.0380	0.004793	625953979.55
1124515180	Capacitor	C106-107	Bellcore Issue 6	Level I		0.001060	2.00	.0168	0.002120	943198589.05
1124527180	Capacitor	C108,C98-99	Bellcore Issue 6	Level I		0.001060	3.00	.0252	0.003181	943198589.05
1301005440	Semiconductor	D2	Bellcore Issue 6	Level I		0.023881	1.00	.1894	0.023881	41874327.58

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**Temperature** 25.00

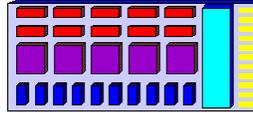


**Description** Top-level assembly  
**File Name** PCM-5897A0.2.RPJ  
**Time** 9:40 AM  
**Failure Rate** 12.609589  
**MTBF** 79,305

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300414840	Semiconductor	D4-10	Bellcore Issue 6	Level I		0.023881	7.00	1.3257	0.167167	41874327.58
1301005441	Semiconductor	D12-15	Bellcore Issue 6	Level I		0.023881	4.00	.7575	0.095524	41874327.58
1304100540	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004877	1.00	.0387	0.004877	205063180.81
1212308050	Inductor	L1-22,L25-58,L60-69	Bellcore Issue 6	Level I		0.002268	66.00	1.1869	0.149669	440974090.03
1211101261	Inductor	L59	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
1213106008	Inductor	LN1	Bellcore Issue 6	Level I		0.002268	4.00	.0719	0.009071	440974090.03
1310390410	Semiconductor	Q1-4	Bellcore Issue 6	Level I		0.023881	4.00	.7575	0.095524	41874327.58
1315500310	Semiconductor	Q5-7	Bellcore Issue 6	Level I		0.079603	3.00	1.8939	0.238810	12562298.27
1314101010	Integrated Circuit	Q8-9	Bellcore Issue 6	Level I		0.059366	2.00	.9416	0.118732	16844654.92
1540722080	Resistor	RN1-7,RN18-25	Bellcore Issue 6	Level I		0.006246	15.00	.7430	0.093690	160102772.00
1540747282	Resistor	RN8-17,RN28-53,RN56,RN64-70	Bellcore Issue 6	Level I		0.006246	44.00	2.1795	0.274823	160102772.00
1540715380	Resistor	RN26	Bellcore Issue 6	Level I		0.006246	1.00	.0495	0.006246	160102772.00
1540701380	Resistor	RN27,RN71-72	Bellcore Issue 6	Level I		0.006246	3.00	.1486	0.018738	160102772.00
1540722280	Resistor	RN54-55	Bellcore Issue 6	Level I		0.006246	2.00	.0991	0.012492	160102772.00
1540733082	Resistor	RN57-59,RN61-63	Bellcore Issue 6	Level I		0.006246	6.00	.2972	0.037476	160102772.00
1540782080	Resistor	RN60	Bellcore Issue 6	Level I		0.006246	1.00	.0495	0.006246	160102772.00
1540710380	Resistor	RN73,RP2-5	Bellcore Issue 6	Level I		0.006246	5.00	.2477	0.031230	160102772.00
106B701031	Resistor	RT1-2	Bellcore Issue 6	Level I		0.011379	2.00	.1805	0.022759	87878027.07
1752311000	Miscellaneous	F1,RV1-2	Bellcore Issue 6	Level I		0.030000	3.00	.7137	0.090000	33333333.33
105A704723	Resistor	R1,R107-108,R12,R125-126,R129,- R14,R17,R194-195,R2,R205,R216- ,R239,R24-25,R247,R258-259,R26- 9,R33,R35,R38,R40,R42,R44,R46,- R48,R50,R57,R60	Bellcore Issue 6	Level I		0.002268	32.00	.5755	0.072567	440974090.03
105A700133	Resistor	R123,R146,R191-192,R197,R215,- R245,R260,R3-4,R70,R72-73	Bellcore Issue 6	Level I		0.002268	13.00	.2338	0.029480	440974090.03
105A701033	Resistor	R124,R16,R187,R19,R190,R235-2- 37,R274,R285,R37,R39,R41,R43,- R45,R47,R49,R5,R51-56,R58-59,R- 62	Bellcore Issue 6	Level I		0.002268	27.00	.4856	0.061228	440974090.03
105A534813	Resistor	R6	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A702203	Resistor	R10-11,R109-118,R200,R232,R234- ,R26-27,R276-278,R28,R287,R29-- 32,R36,R7,R96,R98	Bellcore Issue 6	Level I		0.002268	30.00	.5395	0.068031	440974090.03

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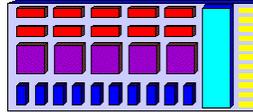


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**File Name** PCM-5897A0.2.RPJ  
**Time** 9:40 AM  
**Failure Rate** 12.609589  
**MTBF** 79,305

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A710003	Resistor	R128,R199,R65,R8	Bellcore Issue 6	Level I		0.002268	4.00	.0719	0.009071	440974090.03
105A566513	Resistor	R9	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A702223	Resistor	R13,R210-211	Bellcore Issue 6	Level I		0.002268	3.00	.0540	0.006803	440974090.03
105A733003	Resistor	R18,R182,R196	Bellcore Issue 6	Level I		0.002268	3.00	.0540	0.006803	440974090.03
105A707503	Resistor	R20-22,R224-225,R228-229,R253,-R61	Bellcore Issue 6	Level I		0.002268	9.00	.1619	0.020409	440974090.03
105A736003	Resistor	R23,R255	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A700003	Resistor	R131,R230,R280,R286,R34,R87,R-88,R90	Bellcore Issue 6	Level I		0.002268	8.00	.1439	0.018142	440974090.03
105A556323	Resistor	R63	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A501633	Resistor	R64	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A501033	Resistor	R66-67,R69,R71	Bellcore Issue 6	Level I		0.002268	4.00	.0719	0.009071	440974090.03
105A702233	Resistor	R68	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A702703	Resistor	R82-85	Bellcore Issue 6	Level I		0.002268	4.00	.0719	0.009071	440974090.03
105A703303	Resistor	R188,R231,R256-257,R91,R93-95	Bellcore Issue 6	Level I		0.002268	8.00	.1439	0.018142	440974090.03
105A701003	Resistor	R100-104,R132-133,R78-81,R97,R-99	Bellcore Issue 6	Level I		0.002268	13.00	.2338	0.029480	440974090.03
105A700233	Resistor	R127,R198,R248-251	Bellcore Issue 6	Level I		0.002268	6.00	.1079	0.013606	440974090.03
105A551033	Resistor	R180	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A702723	Resistor	R181	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A522033	Resistor	R183	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A708203	Resistor	R189	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A705623	Resistor	R193,R268	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A502223	Resistor	R201	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A512123	Resistor	R202	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A500133	Resistor	R203,R207-208	Bellcore Issue 6	Level I		0.002268	3.00	.0540	0.006803	440974090.03
105A530123	Resistor	R204,R209	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A561933	Resistor	R206	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A704703	Resistor	R212-214	Bellcore Issue 6	Level I		0.002268	3.00	.0540	0.006803	440974090.03
105A701823	Resistor	R217	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A747003	Resistor	R220,R223	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A549963	Resistor	R221-222,R226-227	Bellcore Issue 6	Level I		0.002268	4.00	.0719	0.009071	440974090.03

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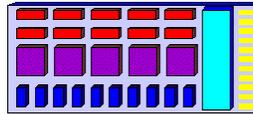


**Description** Top-level assembly  
**File Name** PCM-5897A0.2.RPJ  
**Time** 9:40 AM  
**Failure Rate** 12.609589  
**MTBF** 79,305

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A704733	Resistor	R238	Bellcore Issue 6	Level I		0.002268	1.00	.0180	0.002268	440974090.03
105A705123	Resistor	R240-241	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A503033	Resistor	R242,R246	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A502033	Resistor	R243-244	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A511503	Resistor	R261,R265	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
105A518703	Resistor	R262,R266	Bellcore Issue 6	Level I		0.002268	2.00	.0360	0.004535	440974090.03
1600000803	Switching Device	SW1,SW2	Bellcore Issue 6	Level I		0.056897	2.00	.9024	0.113794	17575605.41
1600001603	Switching Device	SW3-4	Bellcore Issue 6	Level I		0.085346	2.00	1.3537	0.170691	11717070.28
14S5500800	Integrated Circuit	U1	Bellcore Issue 6	Level I	16.00	0.130021	1.00	1.0311	0.130021	7691058.21
1315995310	Integrated Circuit	U3	Bellcore Issue 6	Level I	9.00	0.112485	1.00	.8921	0.112485	8890058.82
14S5500700	Integrated Circuit	U4	Bellcore Issue 6	Level I	9.00	0.097228	1.00	.7711	0.097228	10285053.39
14S5500400	Integrated Circuit	U5	Bellcore Issue 6	Level I	10.00	0.101494	1.00	.8049	0.101494	9852751.54
14S5212500	Integrated Circuit	U6	Bellcore Issue 6	Level I	10.00	0.101068	1.00	.8015	0.101068	9894315.61
14S6046400	Integrated Circuit	U8	Bellcore Issue 6	Level I	26.00	1.638381	1.00	12.9931	1.638381	610358.51
14S6025630	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.189533	1.00	1.5031	0.189533	5276139.49
14S9055500	Integrated Circuit	U10	Bellcore Issue 6	Level I	7.00	0.097911	1.00	.7765	0.097911	10213356.27
1651203291	Connection	U11	Bellcore Issue 6	Level I		0.018207	1.00	.1444	0.018207	54923766.92
14S8257200	Integrated Circuit	U12	Bellcore Issue 6	Level I	12.00	0.077420	1.00	.6140	0.077420	12916624.12
14S5524510	Integrated Circuit	U13	Bellcore Issue 6	Level I	10.00	0.103929	1.00	.8242	0.103929	9621974.55
14S4021300	Integrated Circuit	U16-17,U25,U27	Bellcore Issue 6	Level I	11.00	0.128997	4.00	4.0920	0.515987	7752127.40
14S4048500	Integrated Circuit	U18-19	Bellcore Issue 6	Level I	9.00	0.112485	2.00	1.7841	0.224970	8890058.82
14S3600400	Integrated Circuit	U20	Bellcore Issue 6	Level I	18.00	0.205515	1.00	1.6298	0.205515	4865835.10
14S6334600	Integrated Circuit	U22	Bellcore Issue 6	Level I	24.00	0.155370	1.00	1.2322	0.155370	6436243.01
14S3000300	Integrated Circuit	U23	Bellcore Issue 6	Level I	9.00	0.112485	1.00	.8921	0.112485	8890058.82
14S4813902	Integrated Circuit	U24	Bellcore Issue 6	Level I	13.00	0.081727	1.00	.6481	0.081727	12235812.22
14S4866100	Integrated Circuit	U26	Bellcore Issue 6	Level I	14.00	0.086245	1.00	.6840	0.086245	11594908.63
14S1488000	Integrated Circuit	U29	Bellcore Issue 6	Level I	14.00	0.157897	1.00	1.2522	0.157897	6333229.12
1315344710	Integrated Circuit	U33	Bellcore Issue 6	Level I	17.00	0.192530	1.00	1.5269	0.192530	5193998.23
1233350050	Miscellaneous	X4	Bellcore Issue 6	Level I		0.150000	1.00	1.1896	0.150000	6666666.67
14S3015600	Integrated Circuit	U7	Bellcore Issue 6	Level I	20.00	0.233882	1.00	1.8548	0.233882	4275661.99
14S4842000	Integrated Circuit	U2A1	Bellcore Issue 6	Level I	23.00	0.137870	1.00	1.0934	0.137870	7253191.45

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14S3912700	Integrated Circuit	U30	Bellcore Issue 6	Level I	11.00	0.128997	1.00	1.0230	0.128997	7752127.40
14S4268600	Integrated Circuit	U7A1	Bellcore Issue 6	Level I	15.00	0.090981	1.00	.7215	0.090981	10991353.05
14S3161100	Integrated Circuit	U28	Bellcore Issue 6	Level I	13.00	0.147672	1.00	1.1711	0.147672	6771770.53
14S5A01400	Integrated Circuit	U31-32	Bellcore Issue 6	Level I	17.00	0.192530	2.00	3.0537	0.385060	5193998.23
1314043110	Integrated Circuit	D11	Bellcore Issue 6	Level I	12.00	0.138049	1.00	1.0948	0.138049	7243806.82
1750119011	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	7.1374	0.900000	1111111.11
1750220320	Connection	BAT1	Bellcore Issue 6	Level I		0.001138	1.00	.0090	0.001138	878780270.71
1759100002	Miscellaneous	BUZZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.1896	0.150000	6666666.67
1655420021	Connection	CN1	Bellcore Issue 6	Level I		0.284485	1.00	2.2561	0.284485	3515121.08
1653005201	Connection	CN13,CN19,CN4,J6	Bellcore Issue 6	Level I		0.005690	4.00	.1805	0.022759	175756054.14
1654808300	Connection	CN2	Bellcore Issue 6	Level I		0.004552	1.00	.0361	0.004552	219695067.68
1653217202	Connection	CN3	Bellcore Issue 6	Level I		0.019345	1.00	.1534	0.019345	51692957.10
1653004201	Connection	CN6	Bellcore Issue 6	Level I		0.004552	1.00	.0361	0.004552	219695067.68
1653220203	Connection	CN5	Bellcore Issue 6	Level I		0.022759	1.00	.1805	0.022759	43939013.54
1654418100	Connection	CN7	Bellcore Issue 6	Level I		0.010241	1.00	.0812	0.010241	97642252.30
1653225200	Connection	CN8	Bellcore Issue 6	Level I		0.028449	1.00	.2256	0.028449	35151210.83
1654612300	Connection	CN9	Bellcore Issue 6	Level I		0.006828	1.00	.0541	0.006828	146463378.45
1654440300	Connection	CN10	Bellcore Issue 6	Level I		0.022759	1.00	.1805	0.022759	43939013.54
1653005100	Connection	CN18	Bellcore Issue 6	Level I		0.002845	1.00	.0226	0.002845	351512108.28
1653005101	Connection	CN11	Bellcore Issue 6	Level I		0.002845	1.00	.0226	0.002845	351512108.28
1652512200	Connection	CN12	Bellcore Issue 6	Level I		0.006828	1.00	.0541	0.006828	146463378.45
1654415500	Connection	CN14	Bellcore Issue 6	Level I		0.002845	1.00	.0226	0.002845	351512108.28
16550004020	Connection	CN21	Bellcore Issue 6	Level I		0.002276	1.00	.0180	0.002276	439390135.35
1119610291	Capacitor	CT10,CT12,CT30,CT40-45,CT48	Bellcore Issue 6	Level I		0.075338	10.00	5.9747	0.753382	13273483.15
1119610293	Capacitor	CT37-38	Bellcore Issue 6	Level I		0.071121	2.00	1.1281	0.142243	14060484.33
1169701700	Capacitor	CT51	Bellcore Issue 6	Level I		0.000718	1.00	.0057	0.000718	1392389831.84
1651584490	Connection	DIMM1	Bellcore Issue 6	Level I		0.095587	1.00	.7581	0.095587	10461669.89
1653003100	Connection	J1	Bellcore Issue 6	Level I		0.001707	1.00	.0135	0.001707	585853513.81
1653003101	Connection	J2,J4	Bellcore Issue 6	Level I		0.001707	2.00	.0271	0.003414	585853513.81
1653003201	Connection	J7	Bellcore Issue 6	Level I		0.003414	1.00	.0271	0.003414	292926756.90
1653006101	Connection	J5	Bellcore Issue 6	Level I		0.003414	1.00	.0271	0.003414	292926756.90

