



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

# **PCM-4898**

## **Reliability Prediction Report**

### **(MTBF)**

**Release Date: JUNE.23, 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-4898**

**II . Description: Media PC with LCD, Audio, TV Out, LAN, 4 COMs,LVDs, & 4 D I/O**

**III. Prediction Date: JUNE. 23, 2000**

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

**V . Predicted by : Milo Wang**

**VI.Equipment: Relex Ver.7.0 Visual Reliability Software**

**VII. Simulation Environment:**

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

**VIII. Prediction Result:**

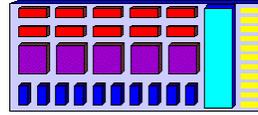
- **Failure Rate: 9.694084 ppm**
- **MTBF: 103,156. Hours**

**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** 9697489800  
**Reference Des**  
**Date** 06. 23, 2000  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

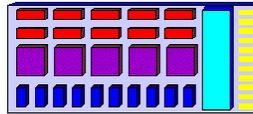


**Description** Top-level assembly  
**File Name** PCM-4898A0.1mtbf.RPJ  
**Time** 3:41 PM  
**Failure Rate** 9.694084  
**MTBF** 103,156

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PCM-4898	9697489800	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	9.694084	103,156

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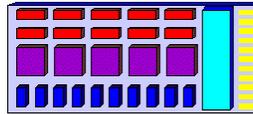


**Description** Top-level assembly  
**File Name** PCM-4898A0.1mtbf.RPJ  
**Time** 3:41 PM  
**Failure Rate** 9.694084  
**MTBF** 103,156

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122701680	Capacitor	BC1-5,BC10,BC102-133,BC11-14,-BC142,BC145-154,BC157-163,BC-16,BC19,BC22-24,BC26-34,BC36--38,BC40-59,BC63-65,BC67-95,BC8--9,C65	Bellcore Issue 6	Level I	.00	0.001598	132.00	2.1753	0.210878	625953979.55
1124501780	Capacitor	BC100-101,BCBC134-141,BC155--156,BC164-165,BC20-21,BC25,BC-35,BC39,BC6,BC66,BC96-99	Bellcore Issue 6	Level I	.00	0.001060	25.00	.2734	0.026506	943198589.05
1124447080	Capacitor	C144-145,C147,C186-194,C57-60,-C7,C70-73	Bellcore Issue 6	Level I	.00	0.001060	21.00	.2297	0.022265	943198589.05
1129701080	Capacitor	BC7,C102,C106,C112,C114-115,C-215-222,C224,C234-241,C56,C8,C-93,C96	Bellcore Issue 6	Level I	.00	0.005466	27.00	1.5223	0.147572	182961702.19
1124410080	Capacitor	C9	Bellcore Issue 6	Level I	.00	0.001060	1.00	.0109	0.001060	943198589.05
1124433080	Capacitor	C10,C132-137	Bellcore Issue 6	Level I	.00	0.001060	7.00	.0766	0.007422	943198589.05
1124510280	Capacitor	C104,C110,C117-119,C142-143,C-165,C23	Bellcore Issue 6	Level I	.00	0.001060	9.00	.0984	0.009542	943198589.05
1124522180	Capacitor	C111,C166-174,C199-214,C38-53,-C61-64,C82	Bellcore Issue 6	Level I	.00	0.001060	47.00	.5140	0.049830	943198589.05
1124547280	Capacitor	C66-69	Bellcore Issue 6	Level I	.00	0.001060	4.00	.0437	0.004241	943198589.05
1124518180	Capacitor	C74-81,C83-91	Bellcore Issue 6	Level I	.00	0.001060	17.00	.1859	0.018024	943198589.05
1124527180	Capacitor	C149,C94-95	Bellcore Issue 6	Level I	.00	0.001060	3.00	.0328	0.003181	943198589.05
1122747880	Capacitor	C97	Bellcore Issue 6	Level I	.00	0.001598	1.00	.0165	0.001598	625953979.55
1124415080	Capacitor	C99	Bellcore Issue 6	Level I	.00	0.001060	1.00	.0109	0.001060	943198589.05
1124547180	Capacitor	C103,C107,C116,C125-126,C131	Bellcore Issue 6	Level I	.00	0.001060	6.00	.0656	0.006361	943198589.05
1121733780	Capacitor	C105,C120,C128	Bellcore Issue 6	Level I	.00	0.002539	3.00	.0786	0.007617	393852661.82
1124510180	Capacitor	C108-109,C138-141	Bellcore Issue 6	Level I	.00	0.001060	6.00	.0656	0.006361	943198589.05
1124515180	Capacitor	C113	Bellcore Issue 6	Level I	.00	0.002539	1.00	.0262	0.002539	393852661.82
1124522280	Capacitor	C122,C130	Bellcore Issue 6	Level I	.00	0.001060	2.00	.0219	0.002120	943198589.05
1124515180	Capacitor	C148,C230	Bellcore Issue 6	Level I	.00	0.001060	2.00	.0219	0.002120	943198589.05
1149610180	Capacitor	C150,C175	Bellcore Issue 6	Level I	.00	0.004535	2.00	.0936	0.009071	220487045.01
1124422080	Capacitor	C151-152,C195-196	Bellcore Issue 6	Level I	.00	0.001060	4.00	.0437	0.004241	943198589.05
1124412080	Capacitor	C197	Bellcore Issue 6	Level I	.00	0.001060	1.00	.0109	0.001060	943198589.05
1124515281	Capacitor	C231	Bellcore Issue 6	Level I	.00	0.001060	1.00	.0109	0.001060	943198589.05
1141601090	Capacitor	C242	Bellcore Issue 6	Level I	.00	0.002357	1.00	.0243	0.002357	424256814.77

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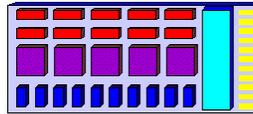


**Description** Top-level assembly  
**File Name** PCM-4898A0.1mtbf.RPJ  
**Time** 3:41 PM  
**Failure Rate** 9.694084  
**MTBF** 103,156

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300414840	Semiconductor	D1-2,D12-13,D6	Bellcore Issue 6	Level I	.00	0.023881	5.00	1.2317	0.119405	41874327.58
1305099140	Semiconductor	D7-9	Bellcore Issue 6	Level I	.00	0.023881	3.00	.7390	0.071643	41874327.58
1212306031	Inductor	FB1-4,FB16-17,FB26-40,FB43-48,- FB50-54	Bellcore Issue 6	Level I	.00	0.002268	32.00	.7486	0.072567	440974090.03
1212306030	Inductor	FB5-6	Bellcore Issue 6	Level I	.00	0.002268	2.00	.0468	0.004535	440974090.03
1212308053	Inductor	FB7-10	Bellcore Issue 6	Level I	.00	0.002268	4.00	.0936	0.009071	440974090.03
1212308051	Inductor	FB11-15,FB18-25,FB41-42,FB49,F- B55-56	Bellcore Issue 6	Level I	.00	0.002268	18.00	.4211	0.040819	440974090.03
1752311000	Miscellaneous	F1-6	Bellcore Issue 6	Level I	.00	0.030000	6.00	1.8568	0.180000	33333333.33
1211101261	Inductor	L1-2	Bellcore Issue 6	Level I	.00	0.002268	2.00	.0468	0.004535	440974090.03
1050700002	Resistor	L4	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
1540733082	Resistor	PR1-6,PR34,RP1-5	Bellcore Issue 6	Level I	.00	0.006246	12.00	.7732	0.074952	160102772.00
1540710080	Resistor	PR7-13,PR16-28	Bellcore Issue 6	Level I	.00	0.006246	21.00	1.3530	0.131166	160102772.00
1540701380	Resistor	PR14	Bellcore Issue 6	Level I	.00	0.006246	1.00	.0644	0.006246	160102772.00
1540710380	Resistor	PR29-30,PR36-37,PR39-43,PR47-- 48	Bellcore Issue 6	Level I	.00	0.006246	11.00	.7087	0.068706	160102772.00
1540747282	Resistor	PR31-33,PR35	Bellcore Issue 6	Level I	.00	0.006246	4.00	.2577	0.024984	160102772.00
1540733180	Resistor	PR38	Bellcore Issue 6	Level I	.00	0.006246	1.00	.0644	0.006246	160102772.00
1540727280	Resistor	PR44-46	Bellcore Issue 6	Level I	.00	0.006246	3.00	.1933	0.018738	160102772.00
1310222210	Semiconductor	Q2,Q4-5,Q7-8	Bellcore Issue 6	Level I	.00	0.023881	5.00	1.2317	0.119405	41874327.58
1315995310	Semiconductor	Q3	Bellcore Issue 6	Level I	9.00	0.204645	1.00	2.1110	0.204645	4886508.57
1315160310	Semiconductor	Q9-10	Bellcore Issue 6	Level I	4.00	0.000000	2.00	.0000	0.000000	.00
1314838410	Integrated Circuit	Q11	Bellcore Issue 6	Level I	10.00	0.120485	1.00	1.2429	0.120485	8299772.79
105A703303	Resistor	R1-5,R10,R110-117,R120-127,R12- 9-132,R137-138,R183-190,R200-2- 03,R212,R253-254,R260,R267-268- R274,R367,R405,R56,R66-72,R74- -76,R9	Bellcore Issue 6	Level I	.00	0.002268	61.00	1.4270	0.138330	440974090.03
105A701033	Resistor	R109,R11,R13,R136,R140,R150-1- 51,R208,R211,R216,R255-256,R2- 64,R273,R283-285,R287,R289-290- R292-293,R306,R313,R315,R332,- R336-337,R347-349,R35,R350-356- R360-362,R364,R40,R403-404,R4- 2,R6-8,R73,R80-81,R83-84	Bellcore Issue 6	Level I	.00	0.002268	55.00	1.2866	0.124724	440974090.03

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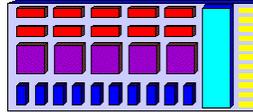


**Description** Top-level assembly  
**File Name** PCM-4898A0.1mtbf.RPJ  
**Time** 3:41 PM  
**Failure Rate** 9.694084  
**MTBF** 103,156

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701003	Resistor	R14-24,R152-155,R304,R307,R400- R406-7,R45-55,R57,R59-64	Bellcore Issue 6	Level I	.00	0.002268	38.00	.8889	0.086173	440974090.03
105A700003	Resistor	R236,R244,R257,R269,R277,R28,- R327,R338,R408,R77-78,R86	Bellcore Issue 6	Level I	.00	0.002268	12.00	.2807	0.027212	440974090.03
105A556003	Resistor	R39	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A704723	Resistor	R100,R146,R175-182,R191-199,R- 215,R217-218,R342-346,R358,R37- 0-371,R396,R41,R90-91,R96-99	Bellcore Issue 6	Level I	.00	0.002268	38.00	.8889	0.086173	440974090.03
105A702203	Resistor	R141,R296-299,R302-303,R305,R- 326,R43	Bellcore Issue 6	Level I	.00	0.002268	10.00	.2339	0.022677	440974090.03
105A733003	Resistor	R118,R340-341,R375-376,R44	Bellcore Issue 6	Level I	.00	0.002268	6.00	.1404	0.013606	440974090.03
105A701523	Resistor	R58	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A702223	Resistor	R168-171,R242,R265-266,R82	Bellcore Issue 6	Level I	.00	0.002268	8.00	.1871	0.018142	440974090.03
105A710053	Resistor	R300,R87	Bellcore Issue 6	Level I	.00	0.013606	2.00	.2807	0.027212	73495681.67
105A712033	Resistor	R88	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A747003	Resistor	R119	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A700133	Resistor	R128,R139,R160-167,R173-174,R- 214,R219,R224,R229-231,R252,R- 258-259,R319,R339,R357,R383	Bellcore Issue 6	Level I	.00	0.002268	26.00	.6082	0.058960	440974090.03
105A708203	Resistor	R133-135	Bellcore Issue 6	Level I	.00	0.002268	3.00	.0702	0.006803	440974090.03
105A704703	Resistor	R142-143,R223	Bellcore Issue 6	Level I	.00	0.002268	3.00	.0702	0.006803	440974090.03
105A701533	Resistor	R156-159,R235,R237,R241,R245,- R65	Bellcore Issue 6	Level I	.00	0.002268	9.00	.2105	0.020409	440974090.03
105A704733	Resistor	R172,R213,R220,R222,R226-227,- R232-234,R238,R247,R323,R330	Bellcore Issue 6	Level I	.00	0.002268	13.00	.3041	0.029480	440974090.03
105A700233	Resistor	R221	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A710003	Resistor	R225,R249-251,R282,R301,R322,- R333	Bellcore Issue 6	Level I	.00	0.002268	8.00	.1871	0.018142	440974090.03
105A706823	Resistor	R228	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A710033	Resistor	R239,R243,R314,R372-373	Bellcore Issue 6	Level I	.00	0.002268	5.00	.1170	0.011339	440974090.03
105A507503	Resistor	R261-263,R275-276,R279	Bellcore Issue 6	Level I	.00	0.002268	6.00	.1404	0.013606	440974090.03
105A736003	Resistor	R278	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A702723	Resistor	R363	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A706233	Resistor	R365-366,R374	Bellcore Issue 6	Level I	.00	0.002268	3.00	.0702	0.006803	440974090.03
105A554903	Resistor	R368	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03

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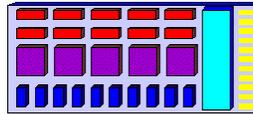


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**File Name** PCM-4898A0.1mtbf.RPJ  
**Time** 3:41 PM  
**Failure Rate** 9.694084  
**MTBF** 103,156

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A561903	Resistor	R369	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A510003	Resistor	R377	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A512003	Resistor	R378	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A707503	Resistor	R379-382	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A700303	Resistor	R388,R390	Bellcore Issue 6	Level I	.00	0.002268	2.00	.0468	0.004535	440974090.03
105A500133	Resistor	R391	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A505103	Resistor	R392	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A513313	Resistor	R393	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A702233	Resistor	R394	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A576803	Resistor	R395	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A511503	Resistor	R397	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A518703	Resistor	R398	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A571533	Resistor	R401	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
105A528713	Resistor	R402	Bellcore Issue 6	Level I	.00	0.002268	1.00	.0234	0.002268	440974090.03
1141610050	Capacitor	TC1-9,TC11-16,TC19-45	Bellcore Issue 6	Level I	.00	0.002357	42.00	1.0212	0.098997	424256814.77
14S3000300	Integrated Circuit	TF1	Bellcore Issue 6	Level I	11.00	0.128997	1.00	1.3307	0.128997	7752127.40
14S5500800	Integrated Circuit	U2	Bellcore Issue 6	Level I	10.00	0.101068	1.00	1.0426	0.101068	9894315.61
14S4553010	Integrated Circuit	U3	Bellcore Issue 6	Level I	4.00	0.049558	1.00	.5112	0.049558	20178332.80
14S4731700	Integrated Circuit	U5	Bellcore Issue 6	Level I	9.00	0.065672	1.00	.6774	0.065672	15227088.64
14S5512500	Integrated Circuit	U19,U8	Bellcore Issue 6	Level I	8.00	0.092724	2.00	1.9130	0.185449	10784640.85
14S2252600	Integrated Circuit	U9	Bellcore Issue 6	Level I	3.00	0.073774	1.00	.7610	0.073774	13554975.01
14S5803200	Integrated Circuit	U10	Bellcore Issue 6	Level I	9.00	0.063195	1.00	.6519	0.063195	15824061.33
14S9055800	Integrated Circuit	U11	Bellcore Issue 6	Level I	7.00	0.097911	1.00	1.0100	0.097911	10213356.27
14S5524510	Integrated Circuit	U12	Bellcore Issue 6	Level I	7.00	0.091290	1.00	.9417	0.091290	10954135.97
14S5801400	Integrated Circuit	U13,U17	Bellcore Issue 6	Level I	8.00	0.059899	1.00	.6179	0.059899	16694882.52
14S3181900	Integrated Circuit	U14	Bellcore Issue 6	Level I	7.00	0.097911	1.00	1.0100	0.097911	10213356.27
14S1307800	Integrated Circuit	U15	Bellcore Issue 6	Level I	8.00	0.097218	1.00	1.0029	0.097218	10286205.62
14S1488000	Integrated Circuit	U16	Bellcore Issue 6	Level I	13.00	0.147672	1.00	1.5233	0.147672	6771770.53
14S4636300	Integrated Circuit	U18	Bellcore Issue 6	Level I	5.00	0.085069	1.00	.8775	0.085069	11755142.30
1651203291	Connection	U20	Bellcore Issue 6	Level I		0.018207	1.00	.1878	0.018207	54923766.92
14S5537300	Integrated Circuit	U21,U22,U25	Bellcore Issue 6	Level I	10.00	0.108269	3.00	3.3506	0.324808	9236222.86

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14S5524410	Integrated Circuit	U23	Bellcore Issue 6	Level I	11.00	0.106789	1.00	1.1016	0.106789	9364272.22
14S5503200	Integrated Circuit	U24	Bellcore Issue 6	Level I	9.00	0.096820	1.00	.9988	0.096820	10328441.13
14S3700301	Integrated Circuit	U27	Bellcore Issue 6	Level I	10.00	0.139704	1.00	1.4411	0.139704	7157974.75
1651202090	Connection	U29	Bellcore Issue 6	Level I		0.018207	1.00	.1878	0.018207	54923766.92
14S3149100	Integrated Circuit	U30	Bellcore Issue 6	Level I	4.00	0.079239	1.00	.8174	0.079239	12620044.05
14S4255901	Integrated Circuit	U43A	Bellcore Issue 6	Level I	9.00	0.065672	1.00	.6774	0.065672	15227088.64
14S6334610	Integrated Circuit	U35	Bellcore Issue 6	Level I	10.00	0.062100	1.00	.6406	0.062100	16103141.87
1314811710	Integrated Circuit	U36	Bellcore Issue 6	Level I	9.00	0.112485	1.00	1.1603	0.112485	8890058.82
14S4021300	Integrated Circuit	U37,U39,U43-44	Bellcore Issue 6	Level I	9.00	0.112485	4.00	4.6414	0.449941	8890058.82
14S4866100	Integrated Circuit	U38	Bellcore Issue 6	Level I	7.00	0.058743	1.00	.6060	0.058743	17023277.62
14S5513800	Integrated Circuit	U40	Bellcore Issue 6	Level I	8.00	0.094989	1.00	.9799	0.094989	10527490.04
14S4048500	Integrated Circuit	U41-42	Bellcore Issue 6	Level I	4.00	0.079239	2.00	1.6348	0.158478	12620044.05
14S2143000	Integrated Circuit	U45	Bellcore Issue 6	Level I	1.00	0.063856	1.00	.6587	0.063856	15660198.22
14S9055500	Integrated Circuit	U49	Bellcore Issue 6	Level I	10.00	0.085614	1.00	.8832	0.085614	11680266.65
1300032040	Semiconductor	ZD1	Bellcore Issue 6	Level I	.00	0.023881	1.00	.2463	0.023881	41874327.58
14S8203240	Integrated Circuit	U48	Bellcore Issue 6	Level I	9.00	0.112485	1.00	1.1603	0.112485	8890058.82
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I	.00	0.900000	1.00	9.2840	0.900000	1111111.11
1750220320	Connection	BAT1	Bellcore Issue 6	Level I	.00	0.001138	1.00	.0117	0.001138	878780270.71
1653022201	Connection	CN1	Bellcore Issue 6	Level I	.00	0.025035	1.00	.2582	0.025035	39944557.76
1653017200	Connection	CN2	Bellcore Issue 6	Level I	.00	0.019345	1.00	.1996	0.019345	51692957.10
1654418100	Connection	CN3	Bellcore Issue 6	Level I	.00	0.010241	1.00	.1056	0.010241	97642252.30
1654808300	Connection	CN5	Bellcore Issue 6	Level I	.00	0.004552	1.00	.0470	0.004552	219695067.68
1654612300	Connection	CN6	Bellcore Issue 6	Level I	.00	0.003414	1.00	.0352	0.003414	292926756.90
1654440300	Connection	CN7	Bellcore Issue 6	Level I	.00	0.022759	1.00	.2348	0.022759	43939013.54
1654415500	Connection	CN10	Bellcore Issue 6	Level I	.00	0.002845	1.00	.0293	0.002845	351512108.28
1655304020	Connection	CN12	Bellcore Issue 6	Level I	.00	0.002276	1.00	.0235	0.002276	439390135.35
1653025201	Connection	CN14	Bellcore Issue 6	Level I	.00	0.028449	1.00	.2935	0.028449	35151210.83
1652512200	Connection	CN16	Bellcore Issue 6	Level I	.00	0.006828	1.00	.0704	0.006828	146463378.45
1111622191	Capacitor	C121,C129,C2-4,C232	Bellcore Issue 6	Level I	.00	0.027242	6.00	1.6861	0.163452	36707972.85
1111610100	Capacitor	C13-14,C233,C54-55	Bellcore Issue 6	Level I	.00	0.027242	5.00	1.4051	0.136210	36707972.85
1169701700	Capacitor	C198	Bellcore Issue 6	Level I	.00	0.000718	1.00	.0074	0.000718	1392389831.84

