



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

PCM-5896 rev:C0.1  
Reliability Prediction Report  
(MTBF)

Release Date: Mar , 13 , 2003

03-13-2003

Issue Stamp

Wayne Chen

A.V.P

Rex Chang

Test Engineer

# Reliability Prediction (MTBF)

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- . Model Name: PCM-5896 (Rev.C0.1)
- . Description: Intel Low-power Compact Board. Onboard Intel MMX technology 266MHz (BGA Type)
- . Prediction Date: Mar. 13, 2003
- . Prediction Site: AAEON DV Dept.
- . Predicted by : Rex Chang
- . Equipment: Relx Ver.7.2 Visual Reliability Software
- . Simulation Environment:
  - Temperature: 23.2 degrees C
  - Standard: Telcordia (Bellcore) Standard
- . 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.

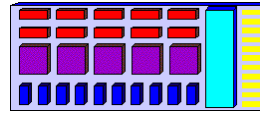
## IX. Prediction Result:

Failure Rate: 7.837913ppm  
MTBF: 127,585Hours ( about 14.56 years )

## X. Prediction Table:

**AAEON Reliability Prediction Report**

**Part Number** System  
**Reference Des**  
**Date** 03. 13, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

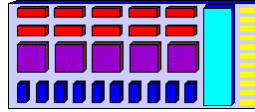


**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
System	System	Bellcore	Method I Case 3	GB, GC - Ground Benign,	100.00	1.00	7.837913	127,585

**AAEON Reliability Prediction Report**

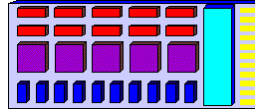
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**Reference Des**  
**Date** 03. 13, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00



**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1655304020	Connection	CN4-5	Bellcore Issue 6	Level I		0.001471	2.00	.0375	0.002943	679648591.75
1653132220	Connection	CN7	Bellcore Issue 6	Level I		0.023542	1.00	.3004	0.023542	42478036.98
1653020200	Connection	CN10	Bellcore Issue 6	Level I		0.014713	1.00	.1877	0.014713	67964859.17
1653213201	Connection	CN13	Bellcore Issue 6	Level I		0.009564	1.00	.1220	0.009564	104561321.81
1653004205	Connection	CN15	Bellcore Issue 6	Level I		0.002943	1.00	.0375	0.002943	339824295.87
1169701700	Capacitor	C147	Bellcore Issue 6	Level I		0.000371	1.00	.0047	0.000371	2696754140.39
1653002100	Connection	J1,J3	Bellcore Issue 6	Level I		0.000736	2.00	.0188	0.001471	1359297183.49
1653003101	Connection	J11,J9	Bellcore Issue 6	Level I		0.001104	2.00	.0282	0.002207	906198122.33
14D4042800	Miscellaneous	U6	Bellcore Issue 6	Level I		0.450000	1.00	5.7413	0.450000	2222222.22
1231114350	Miscellaneous	Y1-2	Bellcore Issue 6	Level I		0.075000	2.00	1.9138	0.150000	13333333.33
1231232720	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.075000	1.00	.9569	0.075000	13333333.33
1653003200	Connection	LED1	Bellcore Issue 6	Level I		0.002207	1.00	.0282	0.002207	453099061.16
1759100002	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.075000	1.00	.9569	0.075000	13333333.33
1119610291	Capacitor	CE3-8	Bellcore Issue 6	Level I		0.048706	6.00	3.7285	0.292235	20531421.63
1653222200	Connection	CN2	Bellcore Issue 6	Level I		0.016185	1.00	.2065	0.016185	61786235.61
1653004200	Connection	CN11,CN3	Bellcore Issue 6	Level I		0.002943	2.00	.0751	0.005885	339824295.87
1653207200	Connection	CN6	Bellcore Issue 6	Level I		0.005150	1.00	.0657	0.005150	194185311.93
1653120225	Connection	CN8	Bellcore Issue 6	Level I		0.014713	1.00	.1877	0.014713	67964859.17
1653208200	Connection	CN9	Bellcore Issue 6	Level I		0.005885	1.00	.0751	0.005885	169912147.94
1653217202	Connection	CN12	Bellcore Issue 6	Level I		0.012506	1.00	.1596	0.012506	79958657.85
1653005100	Connection	CN14	Bellcore Issue 6	Level I		0.001839	1.00	.0235	0.001839	543718873.40
1655420020	Connection	CN17	Bellcore Issue 6	Level I		0.007357	1.00	.0939	0.007357	135929718.35
1653025201	Connection	CN18	Bellcore Issue 6	Level I		0.018392	1.00	.2347	0.018392	54371887.34
1651584490	Connection	DIMM1	Bellcore Issue 6	Level I		0.061797	1.00	.7884	0.061797	16182109.33
1653003201	Connection	J2,J5-6,J7*2,J8	Bellcore Issue 6	Level I		0.002207	6.00	.1689	0.013242	453099061.16
1653002101	Connection	J4	Bellcore Issue 6	Level I		0.000736	1.00	.0094	0.000736	1359297183.49
1653004101	Connection	J12	Bellcore Issue 6	Level I		0.001471	1.00	.0188	0.001471	679648591.75
1652508204	Connection	CN19	Bellcore Issue 6	Level I		0.002943	1.00	.0375	0.002943	339824295.87
1651032220	Connection	U41	Bellcore Issue 6	Level I		0.011771	1.00	.1502	0.011771	84956073.97
1231125051	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.075000	1.00	.9569	0.075000	13333333.33
1211100100	Inductor	L35	Bellcore Issue 6	Level I		0.047445	1.00	.6053	0.047445	21077107.86

**AAEON Reliability Prediction Report**



**Part Number** System  
**Reference Des**  
**Date** 03. 13, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

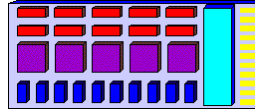
**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1211102762	Inductor	L38	Bellcore Issue 6	Level I		0.047445	1.00	.6053	0.047445	21077107.86
1314780500	Integrated Circuit	Q2	Bellcore Issue 6	Level I	19.80	0.158452	1.00	2.0216	0.158452	6311066.30
1119610293	Capacitor	CE1,CE2	Bellcore Issue 6	Level I		0.045980	2.00	1.1733	0.091959	21748754.94
1655003000	Connection	CN1	Bellcore Issue 6	Level I		0.001104	1.00	.0141	0.001104	906198122.33
1654260201	Connection	PCI1	Bellcore Issue 6	Level I		0.044140	1.00	.5632	0.044140	22654953.06
1124420080	Capacitor	C109-110	Bellcore Issue 6	Level I		0.000547	2.00	.0140	0.001095	1826769085.82
1124547180	Capacitor	C118,C123,C300-303,C307-308	Bellcore Issue 6	Level I		0.000547	8.00	.0559	0.004379	1826769085.82
1124612180	Capacitor	C295-296	Bellcore Issue 6	Level I		0.000547	2.00	.0140	0.001095	1826769085.82
105A702723	Resistor	R160,R247-251,R253-258	Bellcore Issue 6	Level I		0.001249	12.00	.1912	0.014983	800930098.66
105A554903	Resistor	R165	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A702703	Resistor	R181-182,R184-185,R218,R220	Bellcore Issue 6	Level I		0.001249	6.00	.0956	0.007491	800930098.66
1311119710	Semiconductor	Q3	Bellcore Issue 6	Level I		0.013753	1.00	.1755	0.013753	72710998.66
1124501780	Capacitor	C130,C305,C357,C377,C84-85,C87-C90,	Bellcore Issue 6	Level I		0.000547	8.00	.0559	0.004379	1826769085.82
1121647780	Capacitor	C104,C88,C89	Bellcore Issue 6	Level I		0.001311	3.00	.0502	0.003933	762806343.57
1314108312	Integrated Circuit	Q7	Bellcore Issue 6	Level I	39.80	0.512672	1.00	6.5409	0.512672	1950566.28
1540733082	Resistor	RN8,RN9	Bellcore Issue 6	Level I		0.003910	2.00	.0998	0.007821	255730457.04
1139710060	Capacitor	C112,C127,C132,C165,C167,C169-C176-178,C214-227,C26-28,C280-288,C290,C304,C329,C238,C363-366,C374,C376,C58,C64,C68,C95	Bellcore Issue 6	Level I		0.002822	49.00	1.7642	0.138279	354356744.52
1124447080	Capacitor	C171-174,C291-292,C297-299,C349-350,C358-359,C379	Bellcore Issue 6	Level I		0.000547	14.00	.0978	0.007664	1826769085.82
1189610180	Capacitor	CP4,CP6-10	Bellcore Issue 6	Level I		0.002497	6.00	.1912	0.014983	400465049.33
1181647080	Capacitor	CP11,CP5	Bellcore Issue 6	Level I		0.001298	2.00	.0331	0.002595	770566933.97
1124510180	Capacitor	C2-17,C131,C309-315,C318,C325-328,C330-333,C354	Bellcore Issue 6	Level I		0.000547	34.00	.2375	0.018612	1826769085.82
1124410080	Capacitor	C293-294,C61,C63,C65,C67,C71-83	Bellcore Issue 6	Level I		0.000547	20.00	.1397	0.010948	1826769085.82
1124415080	Capacitor	C69-70	Bellcore Issue 6	Level I		0.000547	2.00	.0140	0.001095	1826769085.82
1129701080	Capacitor	C113,C116-117,C120-122,C351,C362,C86	Bellcore Issue 6	Level I		0.002822	9.00	.3240	0.025398	354356744.52
1122722750	Capacitor	C101,C105	Bellcore Issue 6	Level I		0.000825	2.00	.0210	0.001650	1212335760.74
1124568180	Capacitor	C102,C106	Bellcore Issue 6	Level I		0.000547	2.00	.0140	0.001095	1826769085.82



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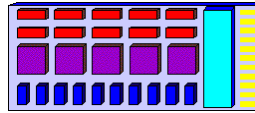
**Part Number** System  
**Reference Des**  
**Date** 03. 13, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00



**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701033	Resistor	R105,R15,R156,R161,R183,R186--187,R204-208,R22,R229,R238,R243-246,R259-262,R268-269,R27,R271-272,R274-294,R321,R343,R357-R5,R74,R81,R89-90	Bellcore Issue 6	Level I		0.001249	57.00	.9080	0.071167	800930098.66
105A700133	Resistor	R116,R119-121,R142,R188,R221,R224-225,R232,R252,R30,R316,R318,R320,R366-367,R6-7,R71	Bellcore Issue 6	Level I		0.001249	20.00	.3186	0.024971	800930098.66
105A703323	Resistor	R8	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A704723	Resistor	R9-13,R135-138,R16,R167-168,R172,R177,R216-217,R219,R227,R28-29,R297-298,R302-308,R31,R33,-R335,R344-345,R349-350,R361,R364-365,R50,R57,R61-65	Bellcore Issue 6	Level I		0.001249	46.00	.7328	0.057433	800930098.66
105A702223	Resistor	R125,R14,R82	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
1050700000	Resistor	R17,R19-20	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
105A511503	Resistor	R18,R21,R353	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
105A702203	Resistor	R32,R336-338,R352,R362,R86	Bellcore Issue 6	Level I		0.001249	7.00	.1115	0.008740	800930098.66
105A701003	Resistor	R264,R273,R328,R34-35,R351,R39-R51-55,R66-69,R76-78	Bellcore Issue 6	Level I		0.001249	19.00	.3027	0.023722	800930098.66
105A733003	Resistor	R107-108,R11,R212,R295-296,R299-301,R70	Bellcore Issue 6	Level I		0.001249	10.00	.1593	0.012485	800930098.66
105A571533	Resistor	R72	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A528713	Resistor	R73	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A705623	Resistor	R157,R79	Bellcore Issue 6	Level I		0.001249	2.00	.0319	0.002497	800930098.66
105A747003	Resistor	R80	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A727003	Resistor	R83	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
1059702261	Resistor	R84-85	Bellcore Issue 6	Level I		0.001249	2.00	.0319	0.002497	800930098.66
105A718003	Resistor	R87	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A708223	Resistor	R100-103,R239-240,R263,R265-267,R91-99	Bellcore Issue 6	Level I		0.001249	19.00	.3027	0.023722	800930098.66
105A710033	Resistor	R109,R114-115,R169-170,R322,R363	Bellcore Issue 6	Level I		0.001249	7.00	.1115	0.008740	800930098.66
105A702033	Resistor	R112-113,R317,R319	Bellcore Issue 6	Level I		0.001249	4.00	.0637	0.004994	800930098.66

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**Temperature** 30.00

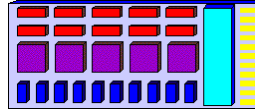
**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A704733	Resistor	R118,R122-124	Bellcore Issue 6	Level I		0.001249	4.00	.0637	0.004994	800930098.66
105A707503	Resistor	R128,R130,R132,R148-151,R309--311	Bellcore Issue 6	Level I		0.001249	10.00	.1593	0.012485	800930098.66
105A707523	Resistor	R127,R131,R355	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
105A705103	Resistor	R139-140,R145-146,R341	Bellcore Issue 6	Level I		0.001249	5.00	.0796	0.006243	800930098.66
105A505623	Resistor	R152	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A751003	Resistor	R153-155	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
105A706233	Resistor	R162-163,R171	Bellcore Issue 6	Level I		0.001249	3.00	.0478	0.003746	800930098.66
105A561903	Resistor	R166	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
1059556001	Resistor	R179	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A708203	Resistor	R195,R215	Bellcore Issue 6	Level I		0.001249	2.00	.0319	0.002497	800930098.66
106B501031	Resistor	RT1	Bellcore Issue 6	Level I		0.007357	1.00	.0939	0.007357	135929718.35
1212308050	Inductor	L1,L10-15,L2,L20-24,L3,L31-34,L4-L44,L46,L5-6,L8	Bellcore Issue 6	Level I		0.001249	24.00	.3823	0.029965	800930098.66
1212306030	Inductor	L16-19,L25-29,L36-37,L39-40	Bellcore Issue 6	Level I		0.001249	13.00	.2071	0.016231	800930098.66
1212303160	Inductor	L30	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
1212306032	Inductor	L41-43,L45,L47-49	Bellcore Issue 6	Level I		0.001249	7.00	.1115	0.008740	800930098.66
1233324050	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.180000	1.00	2.2965	0.180000	5555555.56
1233314350	Miscellaneous	OSC2	Bellcore Issue 6	Level I		0.180000	1.00	2.2965	0.180000	5555555.56
1314101010	Integrated Circuit	Q1	Bellcore Issue 6	Level I	19.10	0.151671	1.00	1.9351	0.151671	6593222.69
1310390410	Semiconductor	Q4	Bellcore Issue 6	Level I		0.013753	1.00	.1755	0.013753	72710998.66
1540747282	Resistor	RN1-7,RN16,RN34-35	Bellcore Issue 6	Level I		0.003910	10.00	.4989	0.039104	255730457.04
1540710380	Resistor	RN14-15,RN23-31	Bellcore Issue 6	Level I		0.003910	11.00	.5488	0.043014	255730457.04
105A501033	Resistor	R323,R325-326,R329,R332	Bellcore Issue 6	Level I		0.001249	5.00	.0796	0.006243	800930098.66
105A700003	Resistor	R1-3,R117,R141,R143,R147,R158,-R176,R197,R231,R235,R237,R242-R324,R339,R58-60	Bellcore Issue 6	Level I		0.001249	19.00	.3027	0.023722	800930098.66
1124522180	Capacitor	C369	Bellcore Issue 6	Level I		0.000547	1.00	.0070	0.000547	1826769085.82
1124601860	Capacitor	C306	Bellcore Issue 6	Level I		0.000547	1.00	.0070	0.000547	1826769085.82
1124517280	Capacitor	C370,C373,C375	Bellcore Issue 6	Level I		0.000547	3.00	.0210	0.001642	1826769085.82
1304100540	Semiconductor	D1	Bellcore Issue 6	Level I		0.003823	1.00	.0488	0.003823	261592266.64
1302000340	Semiconductor	D10	Bellcore Issue 6	Level I		0.014983	1.00	.1912	0.014983	66744174.89



**AAEON Reliability Prediction Report**

**Part Number** System  
**Reference Des**  
**Date** 03. 13, 2003  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00



**Description** Top-level assembly  
**File Name** PCM-5896C01.RPJ  
**Time** 11:51 AM  
**Failure Rate** 7.837913  
**MTBF** 127,585

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1752000800	Miscellaneous	FS1-2	Bellcore Issue 6	Level I		0.015000	2.00	.3828	0.030000	6666666.67
1752311000	Miscellaneous	FS3	Bellcore Issue 6	Level I		0.015000	1.00	.1914	0.015000	6666666.67
105A703933	Resistor	R222	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A720053	Resistor	R226	Bellcore Issue 6	Level I		0.007491	1.00	.0956	0.007491	133488349.78
105A756033	Resistor	R315	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A502833	Resistor	R327	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A590923	Resistor	R331	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
105A504763	Resistor	R346,R347	Bellcore Issue 6	Level I		0.001249	2.00	.0319	0.002497	800930098.66
105A500333	Resistor	R348	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66
14S4866100	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.026234	1.00	.3347	0.026234	38118760.86
14S4021300	Integrated Circuit	U2-3,U31-32	Bellcore Issue 6	Level I		0.042535	4.00	2.1707	0.170138	23510284.61
14S4154100	Integrated Circuit	U5	Bellcore Issue 6	Level I	24.70	0.121036	1.00	1.5442	0.121036	8261998.44
14S6025630	Integrated Circuit	U7	Bellcore Issue 6	Level I	18.30	0.337577	1.00	4.3070	0.337577	2962283.25
14S5501400	Integrated Circuit	U8	Bellcore Issue 6	Level I	22.50	0.083058	1.00	1.0597	0.083058	12039712.30
14S9055500	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.042535	1.00	.5427	0.042535	23510284.61
14S8203280	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.030839	1.00	.3935	0.030839	32425976.41
14S4193800	Integrated Circuit	U16	Bellcore Issue 6	Level I	22.00	0.084211	1.00	1.0744	0.084211	11874924.11
14S6202002	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.106747	1.00	1.3619	0.106747	9367974.40
14S5324500	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.041805	1.00	.5334	0.041805	23920500.05
14S1486300	Integrated Circuit	U20	Bellcore Issue 6	Level I		0.042535	1.00	.5427	0.042535	23510284.61
14S3072400	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.042535	1.00	.5427	0.042535	23510284.61
14S4813905	Integrated Circuit	U24	Bellcore Issue 6	Level I	20.10	0.076621	1.00	.9776	0.076621	13051290.11
14S4900000	Integrated Circuit	U27	Bellcore Issue 6	Level I	23.50	0.090661	1.00	1.1567	0.090661	11030161.17
14S4154300	Integrated Circuit	U28	Bellcore Issue 6	Level I	25.80	0.101389	1.00	1.2936	0.101389	9862977.41
14S4048501	Integrated Circuit	U33-34	Bellcore Issue 6	Level I		0.042535	2.00	1.0854	0.085069	23510284.61
14S3155300	Integrated Circuit	U36	Bellcore Issue 6	Level I	20.00	0.160439	1.00	2.0470	0.160439	6232907.86
1315344710	Integrated Circuit	U37	Bellcore Issue 6	Level I		0.042535	1.00	.5427	0.042535	23510284.61
14S6334610	Integrated Circuit	U25	Bellcore Issue 6	Level I		0.021923	1.00	.2797	0.021923	45614435.26
1315603012	Integrated Circuit	Q5-6	Bellcore Issue 6	Level I		0.042535	2.00	1.0854	0.085069	23510284.61
1189633180	Capacitor	CP1,CP3,CP12	Bellcore Issue 6	Level I		0.002716	3.00	.1040	0.008148	368200063.66
1059705601	Resistor	R356	Bellcore Issue 6	Level I		0.001249	1.00	.0159	0.001249	800930098.66

