



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

# **SBC-770**

## **Reliability Prediction Report**

### **(MTBF)**

**Release Date: Dec. 10, 1999**

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**Issue Stamp**

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**QA Manager**

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**QE Manager**

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**Test Engineer**



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**Test Engineer**

# Reliability Prediction (MTBF)

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**I . Model Name: SBC-770**

**II . Description: Pentium II CPU Card with LCD, Ethernet, High Drive, & SSD**

**III. Prediction Date: Dec. 10, 1999**

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

**V. Predicted by : Chasel Wang**

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

**VII. Simulation Environment:**

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

**VIII. Prediction Result:**

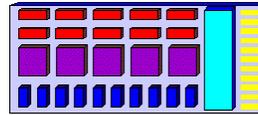
- **Failure Rate: 11.117564 ppm**
- **MTBF: 89,948. hours**

**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** 9697770000  
**Reference Des**  
**Date** 12. 10, 1999  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

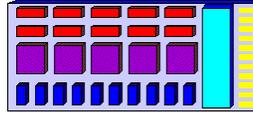


**Description** Top-level assembly  
**File Name** 770a1.rpj  
**Time** 3:11 PM  
**Failure Rate** 11.117564  
**MTBF** 89,948

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
SBC-770	9697770000	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	11.117564	89,948

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**Temperature** 25.00

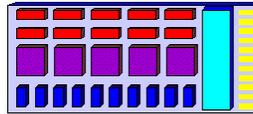


**Description** Top-level assembly  
**File Name** 770a1.rpj  
**Time** 3:11 PM  
**Failure Rate** 11.117564  
**MTBF** 89,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1019556107	Resistor	R156	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
101A501039	Resistor	R192,R195-197,R203	Bellcore Issue 6	Level I		0.002268	5.00	.1020	0.011339	440974090.03
101A590929	Resistor	R207	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
101A700009	Resistor	R37,R50-53,R56,R66,R113,R199	Bellcore Issue 6	Level I		0.002268	9.00	.1836	0.020409	440974090.03
101A701009	Resistor	R3,R16,R26-31,R40-41,R102-103,-R118-119,R200,R210	Bellcore Issue 6	Level I		0.002268	16.00	.3264	0.036283	440974090.03
101A702059	Resistor	R188	Bellcore Issue 6	Level I		0.013606	1.00	.1224	0.013606	73495681.67
101A702209	Resistor	R14,R23,R43,R76,R126,R128	Bellcore Issue 6	Level I		0.002268	6.00	.1224	0.013606	440974090.03
101A703309	Resistor	R13,R35-36,R38-39,R42,R69,R112-,R129,R132,R134-136,R139-142,R-144,R147-151,R158,R162,R217,R-219,R222,R250	Bellcore Issue 6	Level I		0.002268	29.00	.5915	0.065764	440974090.03
101A704709	Resistor	R25	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
101A704729	Resistor	R5,R8,R17,R32-34,R89,R122-124,-R137,R143,R154,R159,R166,R168-,R178,R180,R234,R245	Bellcore Issue 6	Level I		0.002268	20.00	.4080	0.045354	440974090.03
101A705629	Resistor	R19-20,R22,R155,R160,R164,R175-176	Bellcore Issue 6	Level I		0.002268	8.00	.1632	0.018142	440974090.03
101A707509	Resistor	R229,R236-237,R240-241,R244,R-246	Bellcore Issue 6	Level I		0.002268	7.00	.1428	0.015874	440974090.03
101A708229	Resistor	R6,R11,R46-47,R54,R60-61,R64,R-67,R71,R145,R152-153,R165,R167-,R179,R182,R184-187,R189,R191,-R193,R198	Bellcore Issue 6	Level I		0.002268	25.00	.5099	0.056693	440974090.03
101A710009	Resistor	R62,R161,R163,R211	Bellcore Issue 6	Level I		0.002268	4.00	.0816	0.009071	440974090.03
101A710019	Resistor	R65,R84,R91,R98,R170,R174,R17-7,R202,R206,R208,R212-215,R220-,R226-227,R238,R242-243	Bellcore Issue 6	Level I		0.002268	20.00	.4080	0.045354	440974090.03
101A710029	Resistor	R21,R55,R59,R79,R125,R131,R19-0,R230-233	Bellcore Issue 6	Level I		0.002268	11.00	.2244	0.024945	440974090.03
101A715009	Resistor	R82,R92,R111	Bellcore Issue 6	Level I		0.002268	3.00	.0612	0.006803	440974090.03
101A715029	Resistor	R216,R218,R221,R225,R239,R249	Bellcore Issue 6	Level I		0.002268	6.00	.1224	0.013606	440974090.03
101A722009	Resistor	R83,R96	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
101A733009	Resistor	R1,R12,R80,R85,R88,R93-94,R99,-R109,R114-115,R130,R133,R194	Bellcore Issue 6	Level I		0.002268	14.00	.2856	0.031748	440974090.03
101A747009	Resistor	R7,R104,R172-173,R247-248	Bellcore Issue 6	Level I		0.002268	6.00	.1224	0.013606	440974090.03
1059511501	Resistor	R97	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03

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**Temperature** 25.00

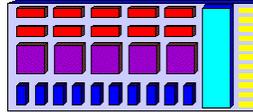


**Description** Top-level assembly  
**File Name** 770a1.rpj  
**Time** 3:11 PM  
**Failure Rate** 11.117564  
**MTBF** 89,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1059519601	Resistor	R105	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
1059700001	Resistor	R107,R121	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A502833	Resistor	R201	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A507503	Resistor	R45,R48	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A510003	Resistor	R57	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A515003	Resistor	R44,R49,R58	Bellcore Issue 6	Level I		0.002268	3.00	.0612	0.006803	440974090.03
105A521033	Resistor	R209	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A528713	Resistor	R171	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A549963	Resistor	R74-75,R77-78	Bellcore Issue 6	Level I		0.002268	4.00	.0816	0.009071	440974090.03
105A560423	Resistor	R204-205	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A571533	Resistor	R169	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A700333	Resistor	R4	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A701823	Resistor	R68	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A702233	Resistor	R138	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A702723	Resistor	R70,R72-73,R86-87,R100-101,R11-6-117,R157,R181,R183	Bellcore Issue 6	Level I		0.002268	12.00	.2448	0.027212	440974090.03
105A704761	Resistor	R9,R18	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A705103	Resistor	R2	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A705603	Resistor	R81	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A707523	Resistor	R10	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A710033	Resistor	R15,R63	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A720003	Resistor	R146	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A743003	Resistor	R95,R108	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A747033	Resistor	R224,R228	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A751003	Resistor	R110	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
105A756033	Resistor	R223,R235	Bellcore Issue 6	Level I		0.002268	2.00	.0408	0.004535	440974090.03
105A768003	Resistor	R90	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
106B501030	Resistor	J5	Bellcore Issue 6	Level I		0.011379	1.00	.1024	0.011379	87878027.07
1111622191	Capacitor	C54,C59	Bellcore Issue 6	Level I		0.027242	2.00	.4901	0.054484	36707972.85
1119610290	Capacitor	C4,C7	Bellcore Issue 6	Level I		0.047294	2.00	.8508	0.094588	21144257.03
1119610291	Capacitor	C9-C13,C17-21,C23,C25,C28,C34-C50,C52	Bellcore Issue 6	Level I		0.075338	16.00	10.8424	1.205411	13273483.15

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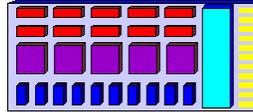


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**File Name** 770a1.rpj  
**Time** 3:11 PM  
**Failure Rate** 11.117564  
**MTBF** 89,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122701680	Capacitor	M1-119	Bellcore Issue 6	Level I		0.001598	119.00	1.7100	0.190110	625953979.55
1124501780	Capacitor	C2,C30,C55	Bellcore Issue 6	Level I		0.001060	3.00	.0286	0.003181	943198589.05
1124510080	Capacitor	C36-45,C47-49,C51,C56-58,C78-79-C83-85,C86	Bellcore Issue 6	Level I		0.001060	23.00	.2193	0.024385	943198589.05
1124510180	Capacitor	C3,C63-64,C66-68,C75-77,C94-101	Bellcore Issue 6	Level I		0.001060	17.00	.1621	0.018024	943198589.05
1124510280	Capacitor	C15-16,C22,C71,C81	Bellcore Issue 6	Level I		0.001060	5.00	.0477	0.005301	943198589.05
1124515080	Capacitor	C26-27	Bellcore Issue 6	Level I		0.001060	2.00	.0191	0.002120	943198589.05
1124520080	Capacitor	C14,C60-61	Bellcore Issue 6	Level I		0.001060	3.00	.0286	0.003181	943198589.05
1124522180	Capacitor	C6,C80,C87	Bellcore Issue 6	Level I		0.001060	3.00	.0286	0.003181	943198589.05
1124547080	Capacitor	C62,C65,C69,C88-91,C102	Bellcore Issue 6	Level I		0.001060	8.00	.0763	0.008482	943198589.05
1124547180	Capacitor	C70,C73	Bellcore Issue 6	Level I		0.001060	2.00	.0191	0.002120	943198589.05
1124547280	Capacitor	C5	Bellcore Issue 6	Level I		0.001060	1.00	.0095	0.001060	943198589.05
1129610290	Capacitor	C92	Bellcore Issue 6	Level I		0.000712	1.00	.0064	0.000712	1403854368.14
1129701080	Capacitor	C1,C24,C46	Bellcore Issue 6	Level I		0.002722	3.00	.0735	0.008167	367335960.60
1141601090	Capacitor	C53	Bellcore Issue 6	Level I		0.002357	1.00	.0212	0.002357	424256814.77
1141610050	Capacitor	F1-9,C72,C74,C82	Bellcore Issue 6	Level I		0.002357	12.00	.2544	0.028285	424256814.77
1142610060	Capacitor	C33,C35	Bellcore Issue 6	Level I		0.001587	2.00	.0286	0.003174	630075050.70
1211100100	Inductor	L2	Bellcore Issue 6	Level I		0.086173	1.00	.7751	0.086173	11604581.32
1211102762	Inductor	L3	Bellcore Issue 6	Level I		0.086173	1.00	.7751	0.086173	11604581.32
1212303160	Inductor	L31	Bellcore Issue 6	Level I		0.002268	1.00	.0204	0.002268	440974090.03
1212306031	Inductor	L21-22,L24-30	Bellcore Issue 6	Level I		0.002268	9.00	.1836	0.020409	440974090.03
1212308050	Inductor	L1,L4-20,L23	Bellcore Issue 6	Level I		0.002268	19.00	.3876	0.043086	440974090.03
1231143180	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.3492	0.150000	6666666.67
1231327680	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.3492	0.150000	6666666.67
1233314350	Miscellaneous	OSC2	Bellcore Issue 6	Level I		0.360000	1.00	3.2381	0.360000	2777777.78
1233350050	Miscellaneous	OSC1	Bellcore Issue 6	Level I		0.360000	1.00	3.2381	0.360000	2777777.78
1300014040	Semiconductor	D3	Bellcore Issue 6	Level I		0.023881	1.00	.2148	0.023881	41874327.58
1300034040	Semiconductor	D2	Bellcore Issue 6	Level I	20.00	0.040924	1.00	.3681	0.040924	24435296.97
1300414800	Semiconductor	D1	Bellcore Issue 6	Level I		0.023881	1.00	.2148	0.023881	41874327.58
1301005440	Semiconductor	D4	Bellcore Issue 6	Level I		0.023881	1.00	.2148	0.023881	41874327.58
1304100540	Semiconductor	D5	Bellcore Issue 6	Level I		0.004877	1.00	.0439	0.004877	205063180.81

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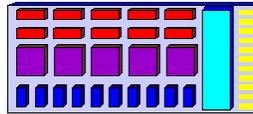


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**File Name** 770a1.rpj  
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**Failure Rate** 11.117564  
**MTBF** 89,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1305099140	Semiconductor	CR1-5	Bellcore Issue 6	Level I		0.023881	5.00	1.0740	0.119405	41874327.58
1314108312	Integrated Circuit	Q3	Bellcore Issue 6	Level I	39.50	0.761413	1.00	6.8487	0.761413	1313347.16
1314108511	Integrated Circuit	Q5	Bellcore Issue 6	Level I	18.00	0.205515	1.00	1.8486	0.205515	4865835.10
1314108512	Integrated Circuit	Q4	Bellcore Issue 6	Level I	18.80	0.216466	1.00	1.9471	0.216466	4619667.49
1315500311	Semiconductor	Q1-2	Bellcore Issue 6	Level I	28.00	0.000000	2.00	.0000	0.000000	.00
1315995300	Semiconductor	U11	Bellcore Issue 6	Level I		0.159207	1.00	1.4320	0.159207	6281149.14
1428374245	Integrated Circuit	U24	Bellcore Issue 6	Level I	10.00	0.103929	1.00	.9348	0.103929	9621974.55
1428474008	Integrated Circuit	U8	Bellcore Issue 6	Level I	8.00	0.092724	1.00	.8340	0.092724	10784640.85
1428474125	Integrated Circuit	U16	Bellcore Issue 6	Level I	13.50	0.117204	1.00	1.0542	0.117204	8532123.24
14S3128420	Integrated Circuit	U27	Bellcore Issue 6	Level I	5.00	0.052920	1.00	.4760	0.052920	18896317.07
14S3155300	Integrated Circuit	U1	Bellcore Issue 6	Level I	17.00	0.192530	1.00	1.7318	0.192530	5193998.23
14S3200400	Integrated Circuit	U33	Bellcore Issue 6	Level I		0.059366	1.00	.5340	0.059366	16844654.92
14S3400100	Integrated Circuit	U3	Bellcore Issue 6	Level I	28.40	0.395666	1.00	3.5589	0.395666	2527383.60
14S3810100	Integrated Circuit	U10	Bellcore Issue 6	Level I	18.80	0.216466	1.00	1.9471	0.216466	4619667.49
14S4048500	Integrated Circuit	U28,U31	Bellcore Issue 6	Level I		0.039668	2.00	.7136	0.079337	25209006.03
14S4070600	Integrated Circuit	U2	Bellcore Issue 6	Level I	11.00	0.128997	1.00	1.1603	0.128997	7752127.40
14S4237120	Integrated Circuit	U17	Bellcore Issue 6	Level I	11.00	0.073313	1.00	.6594	0.073313	13640096.66
14S4244300	Integrated Circuit	U4	Bellcore Issue 6	Level I	6.00	0.055527	1.00	.4995	0.055527	18009235.63
14S4378100	Integrated Circuit	U23	Bellcore Issue 6	Level I	4.00	0.079239	1.00	.7127	0.079239	12620044.05
14S4397700	Integrated Circuit	U30	Bellcore Issue 6	Level I	6.00	0.055527	1.00	.4995	0.055527	18009235.63
14S4418500	Integrated Circuit	U29,U35	Bellcore Issue 6	Level I	15.80	0.094960	2.00	1.7083	0.189919	10530782.13
14S4813901	Integrated Circuit	U6	Bellcore Issue 6	Level I	27.00	0.168422	1.00	1.5149	0.168422	5937462.05
14S4900000	Integrated Circuit	U9	Bellcore Issue 6	Level I	24.60	0.149452	1.00	1.3443	0.149452	6691125.47
14S5500700	Integrated Circuit	U7,U13	Bellcore Issue 6	Level I	14.50	0.122712	2.00	2.2075	0.245423	8149180.68
14S5801400	Integrated Circuit	U14	Bellcore Issue 6	Level I	7.00	0.056640	1.00	.5095	0.056640	17655322.22
14S5A15700	Integrated Circuit	U12	Bellcore Issue 6	Level I	7.00	0.057127	1.00	.5138	0.057127	17504894.22
14S5A24500	Integrated Circuit	U18,U20,U26,U32	Bellcore Issue 6	Level I	8.00	0.098388	4.00	3.5399	0.393552	10163843.19
14S6202000	Integrated Circuit	U25	Bellcore Issue 6	Level I	6.00	0.233170	1.00	2.0973	0.233170	4288723.38
14S6334600	Integrated Circuit	U5	Bellcore Issue 6	Level I	19.00	0.113022	1.00	1.0166	0.113022	8847818.81
14S8203280	Integrated Circuit	U21	Bellcore Issue 6	Level I	14.20	0.102479	1.00	.9218	0.102479	9758127.05
14S8416800	Integrated Circuit	U19,U22	Bellcore Issue 6	Level I	12.90	0.081287	2.00	1.4623	0.162574	12302052.67

### AAEON Reliability Prediction Report

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**Temperature** 25.00



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**File Name** 770a1.rpj  
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**Failure Rate** 11.117564  
**MTBF** 89,948

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S9055500	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.059366	1.00	.5340	0.059366	16844654.92
1540700008	Resistor	RN15	Bellcore Issue 6	Level I		0.006246	1.00	.0562	0.006246	160102772.00
1540701308	Resistor	RN32-33	Bellcore Issue 6	Level I		0.006246	2.00	.1124	0.012492	160102772.00
1540710008	Resistor	RN1-2,RN5,RN7,RN9-12	Bellcore Issue 6	Level I		0.006246	8.00	.4495	0.049968	160102772.00
1540710308	Resistor	RN16	Bellcore Issue 6	Level I		0.006246	1.00	.0562	0.006246	160102772.00
1540722008	Resistor	RN22-25,RN30-31,RN34-41,RN47--50	Bellcore Issue 6	Level I		0.006246	14.00	.7865	0.087444	160102772.00
1540727208	Resistor	RN8,RN13,RN19,RN21	Bellcore Issue 6	Level I		0.006246	4.00	.2247	0.024984	160102772.00
1540747208	Resistor	RN14,RN18	Bellcore Issue 6	Level I		0.006246	2.00	.1124	0.012492	160102772.00
1540756208	Resistor	RN67	Bellcore Issue 6	Level I		0.006246	1.00	.0562	0.006246	160102772.00
1540782208	Resistor	RN3-4,RN6,RN17,RN20,RN26-29,-RN36-39,RN42-46,RN51-66,RN68	Bellcore Issue 6	Level I		0.006246	35.00	1.9663	0.218610	160102772.00
1651003222	Connection	U34	Bellcore Issue 6	Level I		0.018207	1.00	.1638	0.018207	54923766.92
1651203291	Connection	U25	Bellcore Issue 6	Level I		0.018207	1.00	.1638	0.018207	54923766.92
1651584490	Connection	DIM1-3	Bellcore Issue 6	Level I		0.095587	3.00	2.5794	0.286761	10461669.89
1652512200	Connection	CN17	Bellcore Issue 6	Level I		0.006828	1.00	.0614	0.006828	146463378.45
1653002100	Connection	CN2,CN4	Bellcore Issue 6	Level I		0.001138	2.00	.0205	0.002276	878780270.71
1653003200	Connection	J2,J4,J7	Bellcore Issue 6	Level I		0.001707	3.00	.0461	0.005121	585853513.81
1653003200	Connection	J6,J9	Bellcore Issue 6	Level I		0.003414	2.00	.0614	0.006828	292926756.90
1653004100	Connection	J8,CN3	Bellcore Issue 6	Level I		0.002276	2.00	.0409	0.004552	439390135.35
1653004300	Connection	J10	Bellcore Issue 6	Level I		0.006828	1.00	.0614	0.006828	146463378.45
1653005100	Connection	CN1	Bellcore Issue 6	Level I		0.002845	1.00	.0256	0.002845	351512108.28
1653005200	Connection	CN14	Bellcore Issue 6	Level I		0.005690	1.00	.0512	0.005690	175756054.14
1653006100	Connection	CN9	Bellcore Issue 6	Level I		0.003414	1.00	.0307	0.003414	292926756.90
1653025201	Connection	CN6	Bellcore Issue 6	Level I		0.028449	1.00	.2559	0.028449	35151210.83
1653205200	Connection	CN11	Bellcore Issue 6	Level I		0.005690	1.00	.0512	0.005690	175756054.14
1653213201	Connection	CN10	Bellcore Issue 6	Level I		0.014793	1.00	.1331	0.014793	67598482.36
1653217202	Connection	CN12	Bellcore Issue 6	Level I		0.019345	1.00	.1740	0.019345	51692957.10
1653220203	Connection	CN7-8	Bellcore Issue 6	Level I		0.022759	2.00	.4094	0.045518	43939013.54
1654106010	Connection	CN18	Bellcore Issue 6	Level I		0.003414	1.00	.0307	0.003414	292926756.90
1654261300	Connection	SL1	Bellcore Issue 6	Level I		0.137691	1.00	1.2385	0.137691	7262646.87
1654409103	Connection	CN16	Bellcore Issue 6	Level I		0.005121	1.00	.0461	0.005121	195284504.60

