



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

# GENE-5310

## Reliability Prediction Report

### (MTBF)

Release Date: DEC. 06, 2001

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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:** GENE-5310(Rev.A1.1)

**II . Description:** AIO SubCompact Board. MMX-266P. W/LCD, LVDS, Dual LAN,  
Compact Flash, TV-out & Audio.

**III . Prediction Date:** DEC. 06. 2001

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

**V . Predicted by :** Linda Sun

**VI . Equipment:** Relx Ver.7.2 Visual Reliability Software

## **VII. Simulation Environment:**

- Temperature: 25 degrees C(No temperature rise condition )
- Standard: Telcordia (Bellcore) Standard

## **VIII. 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: 12.194212ppm
- MTBF: 82,006Hours

## **X. Prediction Table:**

**AAEON Reliability Prediction Report**

**Part Number** 969753100A  
**Reference Des**  
**Date** 12. 6, 2001  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00

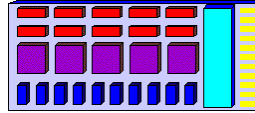


**Description** Top-level assembly  
**File Name** 5310.RPJ  
**Time** 2:36 PM  
**Failure Rate** 12.194212  
**MTBF** 82,006

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
GENE-5310	969753100A	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	12.194212	82,006

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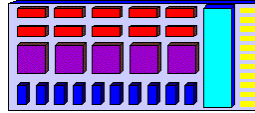


**Description** Top-level assembly  
**File Name** 5310.RPJ  
**Time** 2:36 PM  
**Failure Rate** 12.194212  
**MTBF** 82,006

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A702203	Resistor	R157,R212,R214-215,R31	Bellcore Issue 6	Level I		0.002268	5.00	.0930	0.011339	440974090.03
105A700003	Resistor	R128-129,R155,R224,R226,R252	Bellcore Issue 6	Level I		0.002268	6.00	.1116	0.013606	440974090.03
105A703303	Resistor	R18,R26,R44,R66,R192,R228-229	Bellcore Issue 6	Level I		0.002268	7.00	.1302	0.015874	440974090.03
105A701003	Resistor	R202	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A708203	Resistor	R19	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A705623	Resistor	R23	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A700233	Resistor	R29	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A510003	Resistor	R30,R58-59,R80-81,R168	Bellcore Issue 6	Level I		0.002268	6.00	.1116	0.013606	440974090.03
105A701533	Resistor	R32-33	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A705163	Resistor	R34	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A515513	Resistor	R35	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A527403	Resistor	R37	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A512103	Resistor	R38	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A702723	Resistor	R42-43,R51,R64-65,R73	Bellcore Issue 6	Level I		0.002268	6.00	.1116	0.013606	440974090.03
105A706233	Resistor	R47,R69	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A707503	Resistor	R60-63,R82-85,R110	Bellcore Issue 6	Level I		0.002268	9.00	.1674	0.020409	440974090.03
105A704703	Resistor	R93	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A702223	Resistor	R95,R133,R206-207	Bellcore Issue 6	Level I		0.002268	4.00	.0744	0.009071	440974090.03
105A704733	Resistor	R105-106	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A556003	Resistor	R111-113	Bellcore Issue 6	Level I		0.002268	3.00	.0558	0.006803	440974090.03
105A515403	Resistor	R118,R125	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A511503	Resistor	R126	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A518703	Resistor	R127	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A703323	Resistor	R131	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A727003	Resistor	R134,R135	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A554903	Resistor	R49,R71	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A561903	Resistor	R50,R72	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A710033	Resistor	R52-54,R74-76	Bellcore Issue 6	Level I		0.002268	6.00	.1116	0.013606	440974090.03
105A702233	Resistor	R137,R170	Bellcore Issue 6	Level I		0.002268	2.00	.0372	0.004535	440974090.03
105A736003	Resistor	R144	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A501633	Resistor	R165	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03

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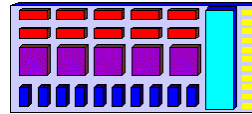


**Description** Top-level assembly  
**File Name** 5310.RPJ  
**Time** 2:36 PM  
**Failure Rate** 12.194212  
**MTBF** 82,006

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A701033	Resistor	R16-17,R160,R163,R217,R219-221-R242	Bellcore Issue 6	Level I		0.002268	9.00	.1674	0.020409	440974090.03
105A733003	Resistor	R56-57,R78-79	Bellcore Issue 6	Level I		0.002268	4.00	.0744	0.009071	440974090.03
105A501033	Resistor	R166-167,R169,R171,R238	Bellcore Issue 6	Level I		0.002268	5.00	.0930	0.011339	440974090.03
105A556223	Resistor	R164	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A720053	Resistor	R246	Bellcore Issue 6	Level I		0.013606	1.00	.1116	0.013606	73495681.67
105A528713	Resistor	R245	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
105A704723	Resistor	R1,R6,R24-25,R27,R39,R48,R55,R70,R77,R87-92,R98,R100-102,R13-8,R140,R145-146,R154,R156,R161-162,R198,R208-209,R222-223,R2-39-241	Bellcore Issue 6	Level I		0.002268	36.00	.6695	0.081637	440974090.03
105A500133	Resistor	R11,R21-22,R28,R36,R172-174,R1-97,R232,R51	Bellcore Issue 6	Level I		0.002268	11.00	.2046	0.024945	440974090.03
1174547080	Capacitor	NC1-2,NC9-10	Bellcore Issue 6	Level I		0.001060	4.00	.0348	0.004241	943198589.05
1174510180	Capacitor	NC5-8	Bellcore Issue 6	Level I		0.001060	4.00	.0348	0.004241	943198589.05
1124510280	Capacitor	C64-66,C89,C91-94,C97,C132	Bellcore Issue 6	Level I		0.001060	10.00	.0869	0.010602	943198589.05
1174618180	Capacitor	NC12	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1121733380	Capacitor	C140	Bellcore Issue 6	Level I		0.002539	1.00	.0208	0.002539	393852661.82
1124420080	Capacitor	CX3,CX4	Bellcore Issue 6	Level I		0.001060	2.00	.0174	0.002120	943198589.05
1124547180	Capacitor	BC2-4,BC10-14	Bellcore Issue 6	Level I		0.001060	8.00	.0696	0.008482	943198589.05
1122701680	Capacitor	BC5,C18,C28,C31-34,C38,C42,C44-47,C55,C59,C62-63,C90,C101-103,C105,C108-109,C137-139,CB7-8,-CB56-58,CB63-84,CB94-99,CB102-106,CB109-110,CB112-115,	Bellcore Issue 6	Level I		0.001598	71.00	.9302	0.113427	625953979.55
1124522180	Capacitor	BC7	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1121647780	Capacitor	BC8	Bellcore Issue 6	Level I		0.002539	1.00	.0208	0.002539	393852661.82
1129701080	Capacitor	C17,C26,C142-144,CB100-101,CM-1-8,CM10-12	Bellcore Issue 6	Level I		0.005466	18.00	.8068	0.098381	182961702.19
1124415080	Capacitor	BC6,CX5-6,CX9-10	Bellcore Issue 6	Level I		0.001060	5.00	.0435	0.005301	943198589.05
1124422080	Capacitor	C119,C122,C141,CX7-8	Bellcore Issue 6	Level I		0.001060	5.00	.0435	0.005301	943198589.05
1129610260	Capacitor	C41,C54	Bellcore Issue 6	Level I		0.000712	2.00	.0117	0.001425	1403854412.74
1121733780	Capacitor	C56-58,C75,C77,C80	Bellcore Issue 6	Level I		0.002539	6.00	.1249	0.015234	393852661.82
1124556180	Capacitor	C81,C95-96	Bellcore Issue 6	Level I		0.001060	3.00	.0261	0.003181	943198589.05

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**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** 5310.RPJ  
**Time** 2:36 PM  
**Failure Rate** 12.194212  
**MTBF** 82,006

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124515180	Capacitor	C82-83,CT20-21	Bellcore Issue 6	Level I		0.001060	4.00	.0348	0.004241	943198589.05
1124527180	Capacitor	C84	Bellcore Issue 6	Level I		0.001060	1.00	.0087	0.001060	943198589.05
1124410080	Capacitor	C99,C125,C127,C129	Bellcore Issue 6	Level I		0.001060	4.00	.0348	0.004241	943198589.05
1174522080	Capacitor	NC13-18	Bellcore Issue 6	Level I		0.001060	6.00	.0522	0.006361	943198589.05
1189633180	Capacitor	CT10	Bellcore Issue 6	Level I		0.004933	1.00	.0405	0.004933	202722669.92
1189633180	Capacitor	F2	Bellcore Issue 6	Level I	36.60	0.009343	1.00	.0766	0.009343	107029096.63
1189633180	Capacitor	C24	Bellcore Issue 6	Level I	37.90	0.009533	1.00	.0782	0.009533	104896390.79
1189610180	Capacitor	CT5	Bellcore Issue 6	Level I		0.004535	1.00	.0372	0.004535	220487045.01
1141633080	Capacitor	CT1	Bellcore Issue 6	Level I	28.00	0.003892	1.00	.0319	0.003892	256928023.65
1119622290	Capacitor	C25	Bellcore Issue 6	Level I	34.70	0.382255	1.00	3.1347	0.382255	2616053.50
1119622290	Capacitor	C27	Bellcore Issue 6	Level I	27.50	0.280780	1.00	2.3026	0.280780	3561513.41
1139710060	Capacitor	C88,C134-136,CT3-4,CT9,,CT11-1-3,CT15-17,CT24-37	Bellcore Issue 6	Level I		0.005466	27.00	1.2102	0.147572	182961702.19
1139710060	Capacitor	CT5	Bellcore Issue 6	Level I	34.30	0.006682	1.00	.0548	0.006682	149659517.81
1231124550	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	1.2301	0.150000	6666666.67
1231332721	Miscellaneous	X2	Bellcore Issue 6	Level I		0.150000	1.00	1.2301	0.150000	6666666.67
1231314320	Miscellaneous	X1,X3	Bellcore Issue 6	Level I		0.150000	2.00	2.4602	0.300000	6666666.67
1233325053	Miscellaneous	Y1,Y4	Bellcore Issue 6	Level I		0.360000	2.00	5.9044	0.720000	2777777.78
1251011010	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
1212306034	Inductor	FB3,FB5-6	Bellcore Issue 6	Level I		0.002268	3.00	.0558	0.006803	440974090.03
1213106008	Inductor	LN2	Bellcore Issue 6	Level I		0.002268	1.00	.0186	0.002268	440974090.03
1212306033	Inductor	FB16,L1-3,L15,L21,L23,L25-26,L37-39,L41,L45-47,L53,L55-57	Bellcore Issue 6	Level I		0.002268	20.00	.3719	0.045354	440974090.03
1212306032	Inductor	L4-9,L28,L30,L32,L34	Bellcore Issue 6	Level I		0.002268	10.00	.1860	0.022677	440974090.03
1212306031	Inductor	FB1-2,FB4,FB10-11,FB13-15,L10,L17-19,L27,L29,L31,L33,L35-36,L40-L42-44,L48-49,L54	Bellcore Issue 6	Level I		0.002268	25.00	.4649	0.056693	440974090.03
1211102460	Inductor	L16	Bellcore Issue 6	Level I	34.10	0.004130	1.00	.0339	0.004130	242111346.69
1315344710	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
1315442010	Semiconductor	U16	Bellcore Issue 6	Level I		0.079603	1.00	.6528	0.079603	12562298.27
1301005442	Semiconductor	D1	Bellcore Issue 6	Level I		0.023881	1.00	.1958	0.023881	41874327.58
1304100540	Semiconductor	D2	Bellcore Issue 6	Level I		0.004877	1.00	.0400	0.004877	205063180.81
1300414840	Semiconductor	D3	Bellcore Issue 6	Level I		0.023881	1.00	.1958	0.023881	41874327.58

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**Time** 2:36 PM  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1300003240	Semiconductor	D4	Bellcore Issue 6	Level I	40.30	0.066242	1.00	.5432	0.066242	15096051.36
1300103540	Semiconductor	D5	Bellcore Issue 6	Level I	38.30	0.063336	1.00	.5194	0.063336	15788774.49
1301005440	Semiconductor	D8	Bellcore Issue 6	Level I		0.023881	1.00	.1958	0.023881	41874327.58
1310390410	Semiconductor	Q1	Bellcore Issue 6	Level I		0.023881	1.00	.1958	0.023881	41874327.58
1314108312	Integrated Circuit	Q5	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
1314101010	Integrated Circuit	Q6	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S3000201	Inductor	TF1	Bellcore Issue 6	Level I	18.40	0.191081	1.00	1.5670	0.191081	5233373.40
14S3000201	Inductor	TF2	Bellcore Issue 6	Level I	17.10	0.186794	1.00	1.5318	0.186794	5353478.57
14S3006000	Integrated Circuit	DN1	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S9055500	Integrated Circuit	U38	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S4268601	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.039296	1.00	.3222	0.039296	25448028.36
14S4048500	Integrated Circuit	U10-11	Bellcore Issue 6	Level I		0.059366	2.00	.9737	0.118732	16844654.92
14S4255900	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.039296	1.00	.3222	0.039296	25448028.36
14S4255900	Integrated Circuit	U20	Bellcore Issue 6	Level I	26.50	0.164305	1.00	1.3474	0.164305	6086248.56
14S3161101	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S6202003	Integrated Circuit	U3	Bellcore Issue 6	Level I	18.20	0.653554	1.00	5.3595	0.653554	1530094.77
14S6334610	Integrated Circuit	U19,U21	Bellcore Issue 6	Level I		0.030598	2.00	.5018	0.061196	32681842.61
14S4842000	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.039296	1.00	.3222	0.039296	25448028.36
14S3912700	Integrated Circuit	U24	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S4026600	Integrated Circuit	U25	Bellcore Issue 6	Level I		0.039296	1.00	.3222	0.039296	25448028.36
14S5500400	Integrated Circuit	U26	Bellcore Issue 6	Level I		0.065211	1.00	.5348	0.065211	15334865.74
14S3015600	Integrated Circuit	U27	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S6046400	Integrated Circuit	U28	Bellcore Issue 6	Level I	34.50	2.473427	1.00	20.2836	2.473427	404297.33
14S6025630	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.189533	1.00	1.5543	0.189533	5276139.49
14S4070600	Integrated Circuit	U1	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S5A00700	Integrated Circuit	U2	Bellcore Issue 6	Level I	27.30	0.164816	1.00	1.3516	0.164816	6067361.73
14S5824500	Integrated Circuit	U5	Bellcore Issue 6	Level I	25.10	0.149429	1.00	1.2254	0.149429	6692146.19
14S5824500	Integrated Circuit	U30	Bellcore Issue 6	Level I	24.40	0.144278	1.00	1.1832	0.144278	6931078.45
14S5212500	Integrated Circuit	U6	Bellcore Issue 6	Level I	30.10	0.226649	1.00	1.8587	0.226649	4412113.44
14S8203280	Integrated Circuit	U7	Bellcore Issue 6	Level I	27.10	0.198971	1.00	1.6317	0.198971	5025848.21
14S4021300	Integrated Circuit	U8	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92

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14S4021300	Integrated Circuit	U9	Bellcore Issue 6	Level I	28.10	0.388487	1.00	3.1858	0.388487	2574088.11
14S3128420	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.059366	1.00	.4868	0.059366	16844654.92
14S5A01400	Integrated Circuit	U13-14,U37	Bellcore Issue 6	Level I		0.059366	3.00	1.4605	0.178098	16844654.92
1540710380	Resistor	RN40,RN48,RN51,RP1-3	Bellcore Issue 6	Level I		0.006246	6.00	.3073	0.037476	160102772.00
1540715380	Resistor	RN53	Bellcore Issue 6	Level I		0.006246	1.00	.0512	0.006246	160102772.00
1540722080	Resistor	RN58-59,RP6	Bellcore Issue 6	Level I		0.006246	3.00	.1537	0.018738	160102772.00
1540733082	Resistor	RN24-26,RN28-30,RN62	Bellcore Issue 6	Level I		0.006246	7.00	.3585	0.043722	160102772.00
1540701380	Resistor	RN34,RN54-55	Bellcore Issue 6	Level I		0.006246	3.00	.1537	0.018738	160102772.00
1540710080	Resistor	LN1, LN3-8, RN38-39, RN41-45, RP4-5	Bellcore Issue 6	Level I		0.006246	16.00	.8195	0.099936	160102772.00
1540747282	Resistor	RN1-23, RN32-33, RN35-37, RN49-50, RN52, RN56-57, RN65	Bellcore Issue 6	Level I		0.006246	34.00	1.7415	0.212364	160102772.00
1540782080	Resistor	RN27	Bellcore Issue 6	Level I		0.006246	1.00	.0512	0.006246	160102772.00
1540775080	Resistor	RN31	Bellcore Issue 6	Level I		0.006246	1.00	.0512	0.006246	160102772.00
1540700080	Resistor	LN9-10, LN60, LN64	Bellcore Issue 6	Level I		0.006246	4.00	.2049	0.024984	160102772.00
1654409103	Connection	CN7	Bellcore Issue 6	Level I		0.005121	1.00	.0420	0.005121	195284504.60
1654515302	Connection	CN9	Bellcore Issue 6	Level I		0.008535	1.00	.0700	0.008535	117170702.76
1654606301	Connection	CN11	Bellcore Issue 6	Level I		0.003414	1.00	.0280	0.003414	292926756.90
1652512200	Connection	CN12-13	Bellcore Issue 6	Level I		0.006828	2.00	.1120	0.013655	146463378.45
1653005101	Connection	CN19	Bellcore Issue 6	Level I		0.002845	1.00	.0233	0.002845	351512108.28
1653004101	Connection	JP2	Bellcore Issue 6	Level I		0.002276	1.00	.0187	0.002276	439390135.35
1653003201	Connection	J1	Bellcore Issue 6	Level I		0.003414	1.00	.0280	0.003414	292926756.90
1653003101	Connection	J5	Bellcore Issue 6	Level I		0.001707	1.00	.0140	0.001707	585853513.81
1656304020	Connection	CN1	Bellcore Issue 6	Level I		0.002276	1.00	.0187	0.002276	439390135.35
1653132220	Connection	CN2	Bellcore Issue 6	Level I		0.036414	1.00	.2986	0.036414	27461883.46
1653120225	Connection	CN3	Bellcore Issue 6	Level I		0.022759	1.00	.1866	0.022759	43939013.54
1653004201	Connection	JP2	Bellcore Issue 6	Level I		0.004552	1.00	.0373	0.004552	219695067.68
1651203291	Connection	U3	Bellcore Issue 6	Level I		0.018207	1.00	.1493	0.018207	54923766.92
1653022202	Connection	CN4, CN10	Bellcore Issue 6	Level I		0.025035	2.00	.4106	0.050069	39944557.76
1653925212	Connection	CN5	Bellcore Issue 6	Level I		0.028449	1.00	.2333	0.028449	35151210.83
1653005202	Connection	CN6, CN17	Bellcore Issue 6	Level I		0.005690	2.00	.0933	0.011379	175756054.14
1653013202	Connection	CN8	Bellcore Issue 6	Level I		0.014793	1.00	.1213	0.014793	67598482.36



