

# HSB-813S Reliability Prediction Report (MTBF)

Report NO : 06I070001

**9-04-2006**

Issue Date

**Wenyuan Yang**

Manager

**Jessica Chou**

Test Engineer

## Reliability Prediction (MTBF)

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I . **Model Name:** HSB-813S

II . **Prediction Date:** Sep. 4, 2006

III . **Prediction Site:** AAEON Q.E. Dept.

IV . **Predicted by:** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

### VI. **Simulation Environment:**

- Temperature: 22.4 degrees C
- Standard: Telcordia (Bellcore) Standard

### VII. **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.

### VIII. **Prediction Result:**

- HSB-813S
  - Failure Rate: 10.378787 ppm
  - MTBF: 96,350 Hours

### AAEON Reliability Prediction Report

**Part Number** 9697813S00  
**Reference Des**  
**Date** 09. 4, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 22.40

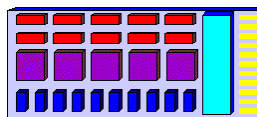


**Description** Top-level assembly  
**File Name** HSB-813S.RPJ  
**Time** 12:07 下午  
**Failure Rate** 10.378787  
**MTBF** 96,350

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
HSB-813S	9697813S00	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	10.378787	96,350

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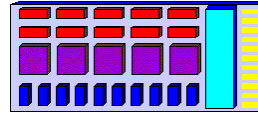
Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1750119013	Miscellaneous	BT1	Bellcore Issue 6	Level I		0.900000	1.00	8.6715	0.900000	1111111.11
1653002100	Connection	CN2,CN4	Bellcore Issue 6	Level I		0.000992	2.00	.0191	0.001984	1007866812.77
1653002101	Connection	JP1	Bellcore Issue 6	Level I		0.000992	1.00	.0096	0.000992	1007866812.77
1653003100	Connection	JP2	Bellcore Issue 6	Level I		0.001488	1.00	.0143	0.001488	671911208.52
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.003969	2.00	.0765	0.007938	251966703.19
1653005201	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.004961	2.00	.0956	0.009922	201573362.55
1653300100	Connection	FP2	Bellcore Issue 6	Level I		0.000992	1.00	.0096	0.000992	1007866812.77
1653300101	Connection	JP2	Bellcore Issue 6	Level I		0.000992	1.00	.0096	0.000992	1007866812.77
1654606200	Connection	CN7	Bellcore Issue 6	Level I		0.002977	1.00	.0287	0.002977	335955604.26
1655420020	Connection	ATX1	Bellcore Issue 6	Level I		0.009922	1.00	.0956	0.009922	100786681.28
1655005021	Connection	CN5	Bellcore Issue 6	Level I		0.002480	1.00	.0239	0.002480	403146725.11
1653006101	Connection	IR1	Bellcore Issue 6	Level I		0.002977	1.00	.0287	0.002977	335955604.26
1653213203	Connection	LPT1	Bellcore Issue 6	Level I		0.012899	1.00	.1243	0.012899	77528216.37
1653205203	Connection	COM1,COM2	Bellcore Issue 6	Level I		0.004961	2.00	.0956	0.009922	201573362.55
1653217205	Connection	FDD1	Bellcore Issue 6	Level I		0.016867	1.00	.1625	0.016867	59286283.10
1655003010	Connection	FAN1	Bellcore Issue 6	Level I		0.001488	1.00	.0143	0.001488	671911208.52
1653220208	Connection	IDE1,IDE2	Bellcore Issue 6	Level I		0.019844	2.00	.3824	0.039688	50393340.64
1655003022	Connection	CN6	Bellcore Issue 6	Level I		0.001488	1.00	.0143	0.001488	671911208.52
1653900034	Connection	CFD1	Bellcore Issue 6	Level I		0.000992	1.00	.0096	0.000992	1007866812.77
1654804100	Connection	USB3	Bellcore Issue 6	Level I		0.001984	1.00	.0191	0.001984	503933406.39
1653005205	Connection	CN1	Bellcore Issue 6	Level I		0.004961	1.00	.0478	0.004961	201573362.55
1654515308	Connection	VGA1	Bellcore Issue 6	Level I		0.007441	1.00	.0717	0.007441	134382241.70
1652508212	Connection	LAN1,LAN2	Bellcore Issue 6	Level I		0.003969	2.00	.0765	0.007938	251966703.19
1119647191	Capacitor	C3-C5	Bellcore Issue 6	Level I		0.062012	3.00	1.7925	0.186036	16125869.00
1169656130	Capacitor	C6,C7	Bellcore Issue 6	Level I		0.005373	2.00	.1035	0.010746	186123215.96
14S6200403	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.126260	1.00	1.2165	0.126260	7920190.70
1654907002	Connection	SATA1,SATA2	Bellcore Issue 6	Level I		0.003473	2.00	.0669	0.006945	287961946.51
1111622104	Capacitor	C16,C2,C22	Bellcore Issue 6	Level I		0.037207	3.00	1.0755	0.111622	26876448.34
105A501033	Resistor	R10,R11,R114,R13,R14,R143,R18- R194,R215,R236,R24,R244,R253,- R254,R26,R267	Bellcore Issue 6	Level I		0.002154	16.00	.3321	0.034466	464231002.40





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**Date** 09. 4, 2006  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 22.40



**Description** Top-level assembly  
**File Name** HSB-813S.RPJ  
**Time** 12:07 下午  
**Failure Rate** 10.378787  
**MTBF** 96,350

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1124510080	Capacitor	C100,C101,C107,C108,C28,C32,C-35,C71-C75,C77-C89	Bellcore Issue 6	Level I		0.004308	25.00	1.0377	0.107705	232115501.20
1124510280	Capacitor	C18,C23-C26,C56,C57,C76,C99	Bellcore Issue 6	Level I		0.004308	9.00	.3736	0.038774	232115501.20
1124522080	Capacitor	C38,C40,C41,C43-C48,C50,C51,C-66,C67	Bellcore Issue 6	Level I		0.004308	13.00	.5396	0.056007	232115501.20
1124522180	Capacitor	C12,C14	Bellcore Issue 6	Level I		0.004308	2.00	.0830	0.008616	232115501.20
1124527180	Capacitor	C13,C19,C60	Bellcore Issue 6	Level I		0.004308	3.00	.1245	0.012925	232115501.20
1124533080	Capacitor	C106	Bellcore Issue 6	Level I		0.004308	1.00	.0415	0.004308	232115501.20
1124547080	Capacitor	C102-C105,C61,C62,C64,C65	Bellcore Issue 6	Level I		0.004308	8.00	.3321	0.034466	232115501.20
1124547180	Capacitor	C63	Bellcore Issue 6	Level I		0.004308	1.00	.0415	0.004308	232115501.20
1129747650	Capacitor	CA1,CA10,CA12-CA15,CA28,CA30-CA32,CA34,CA4,CA42,CA46,CA48-CA5,CA52	Bellcore Issue 6	Level I		0.004308	16.00	.6642	0.068931	232115501.20
1129747650	Capacitor	CA53,CA56,CA59	Bellcore Issue 6	Level I		0.004308	3.00	.1245	0.012925	232115501.20
1540701380	Resistor	RN44	Bellcore Issue 6	Level I		0.005540	1.00	.0534	0.005540	180501719.00
1300283540	Semiconductor	DD3,DD5	Bellcore Issue 6	Level I		0.022147	2.00	.4268	0.044294	45152875.38
1301005440	Semiconductor	DD1,DD2,DD4	Bellcore Issue 6	Level I		0.022147	3.00	.6402	0.066441	45152875.38
1540733180	Resistor	RN1	Bellcore Issue 6	Level I		0.005540	1.00	.0534	0.005540	180501719.00
1211100102	Inductor	L10	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1540782280	Resistor	RN34,RN37-RN41,RN46-RN50	Bellcore Issue 6	Level I		0.005540	11.00	.5872	0.060941	180501719.00
14S3128420	Integrated Circuit	U27	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
1315995310	Semiconductor	U23	Bellcore Issue 6	Level I		0.147647	1.00	1.4226	0.147647	6772931.31
1314111713	Integrated Circuit	Q19	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
1651203291	Connection	U9	Bellcore Issue 6	Level I		0.015875	1.00	.1530	0.015875	62991675.80
14S4911216	Integrated Circuit	U34	Bellcore Issue 6	Level I		0.033681	1.00	.3245	0.033681	29690488.47
14S5900700	Integrated Circuit	U13	Bellcore Issue 6	Level I	12.90	0.102805	1.00	.9905	0.102805	9727168.31
14S4048501	Integrated Circuit	U28,U29	Bellcore Issue 6	Level I		0.049001	2.00	.9443	0.098002	20407702.00
1752311000	Miscellaneous	P1,P2	Bellcore Issue 6	Level I		0.030000	2.00	.5781	0.060000	33333333.33
1540747282	Resistor	RN35,RN36,RN42,RN43,RN45	Bellcore Issue 6	Level I		0.005540	5.00	.2669	0.027701	180501719.00
14S4021310	Integrated Circuit	U4	Bellcore Issue 6	Level I	12.70	0.121313	1.00	1.1689	0.121313	8243147.27
1315700211	Semiconductor	Q10,Q7	Bellcore Issue 6	Level I		0.073823	2.00	1.4226	0.147647	13545862.62
14S5A01400	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00

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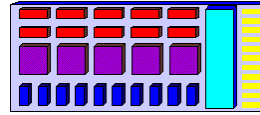
**Description** Top-level assembly  
**File Name** HSB-813S.RPJ  
**Time** 12:07 下午  
**Failure Rate** 10.378787  
**MTBF** 96,350

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S4256200	Inductor	U11	Bellcore Issue 6	Level I		0.129246	1.00	1.2453	0.129246	7737183.37
105A520003	Resistor	R120,R129,R130,R149,R166,R348	Bellcore Issue 6	Level I		0.002154	6.00	.1245	0.012925	464231002.40
105A505633	Resistor	R272	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A523233	Resistor	R279	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A720033	Resistor	R258	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A733033	Resistor	R53	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1124533180	Capacitor	C11	Bellcore Issue 6	Level I		0.004308	1.00	.0415	0.004308	232115501.20
105A560463	Resistor	R100,R102,R118,R211-R214,R37,-R45-R47	Bellcore Issue 6	Level I		0.002154	11.00	.2283	0.023695	464231002.40
105A524303	Resistor	R191	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A533203	Resistor	R16	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A540263	Resistor	R137,R164	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A530103	Resistor	R150,R185	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A512403	Resistor	R345,R346	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
1124418080	Capacitor	C29,C30,C58,C59,C96,C97	Bellcore Issue 6	Level I		0.004308	6.00	.2491	0.025849	232115501.20
105A527463	Resistor	R147,R162,R183,R197,R333	Bellcore Issue 6	Level I		0.002154	5.00	.1038	0.010770	464231002.40
1310390411	Semiconductor	Q1,Q11,Q12,Q5,Q6,Q8,Q9	Bellcore Issue 6	Level I		0.022147	7.00	1.4937	0.155029	45152875.38
105A503300	Resistor	R235,R241,R259,R264,R303,R304-R306-R312,R314,R315,R317,R336-R337,R358	Bellcore Issue 6	Level I		0.002154	19.00	.3943	0.040928	464231002.40
105A503300	Resistor	R359,R379,R380,R77	Bellcore Issue 6	Level I		0.002154	4.00	.0830	0.008616	464231002.40
1300414843	Semiconductor	D3-D6	Bellcore Issue 6	Level I		0.022147	4.00	.8535	0.088588	45152875.38
14S5A23200	Integrated Circuit	U5	Bellcore Issue 6	Level I	21.10	0.109408	1.00	1.0542	0.109408	9140077.12
105A571503	Resistor	R19,R21	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A700103	Resistor	R187,R189,R33,R83	Bellcore Issue 6	Level I		0.002154	4.00	.0830	0.008616	464231002.40
105A568163	Resistor	R126	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1174518180	Capacitor	CP1-CP4	Bellcore Issue 6	Level I		0.005373	4.00	.2071	0.021491	186123215.96
105A513003	Resistor	R182,R96	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A506823	Resistor	R8	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1129701690	Capacitor	M11-M31,M41,M42,M49-M51	Bellcore Issue 6	Level I		0.004308	26.00	1.0793	0.112013	232115501.20
1129701790	Capacitor	N1,N10-N26,N2-N9	Bellcore Issue 6	Level I		0.004308	26.00	1.0793	0.112013	232115501.20
1315970110	Semiconductor	U25,U26,U31	Bellcore Issue 6	Level I		0.073823	3.00	2.1339	0.221470	13545862.62



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**File Name** HSB-813S.RPJ  
**Time** 12:07 下午  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A560403	Resistor	R80,R81	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
14S3115000	Integrated Circuit	U35	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
105A547503	Resistor	R20,R299	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A524963	Resistor	R344,R347	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
1314108412	Integrated Circuit	Q20	Bellcore Issue 6	Level I	26.40	0.297691	1.00	2.8683	0.297691	3359183.52
1314108412	Integrated Circuit	Q21	Bellcore Issue 6	Level I	19.20	0.187547	1.00	1.8070	0.187547	5331999.00
121230603C	Inductor	FB8-FB11	Bellcore Issue 6	Level I		0.002154	4.00	.0830	0.008616	464231002.40
1129710050	Capacitor	CA11,CA19-CA27,CA29,CA38,CA4-5,CA50,CA55,CA57,CA6,CA60,CA8-CA9	Bellcore Issue 6	Level I		0.004308	20.00	.8302	0.086164	232115501.20
14S5A12503	Integrated Circuit	U3,U6,U7	Bellcore Issue 6	Level I		0.033681	3.00	.9735	0.101042	29690488.47
106B501031	Resistor	RT1,RT2	Bellcore Issue 6	Level I		0.009922	2.00	.1912	0.019844	100786681.28
14S2303700	Integrated Circuit	U1	Bellcore Issue 6	Level I	14.60	0.138049	1.00	1.3301	0.138049	7243806.82
121230603D	Inductor	FB1-FB7	Bellcore Issue 6	Level I		0.002154	7.00	.1453	0.015079	464231002.40
1311006910	Semiconductor	Q17,Q22	Bellcore Issue 6	Level I		0.022147	2.00	.4268	0.044294	45152875.38
1122710090	Capacitor	CA16-CA18,CA2,CA3,CA33,CA36,-CA37,CA40,CA7	Bellcore Issue 6	Level I		0.004308	10.00	.4151	0.043082	232115501.20
105A703363	Resistor	R31,R35	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
1654262300	Connection	MPCI1	Bellcore Issue 6	Level I		0.061516	1.00	.5927	0.061516	16255916.34
1211106870	Inductor	L9	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
14S4255100	Integrated Circuit	U21	Bellcore Issue 6	Level I	15.00	0.079118	1.00	.7623	0.079118	12639337.65
105A537463	Resistor	R131	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A513703	Resistor	R351	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1129510060	Capacitor	CA31,CA58	Bellcore Issue 6	Level I		0.004308	2.00	.0830	0.008616	232115501.20
105A522663	Resistor	R140	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1304101340	Semiconductor	LED1	Bellcore Issue 6	Level I		0.003837	1.00	.0370	0.003837	260646964.49
1653925216	Connection	CFD1	Bellcore Issue 6	Level I		0.024805	1.00	.2390	0.024805	40314672.51
14S6334605	Integrated Circuit	U18,U24	Bellcore Issue 6	Level I		0.025256	2.00	.4867	0.050512	39594833.37
105A705609	Resistor	R58-R61,R73-R76	Bellcore Issue 6	Level I		0.002154	8.00	.1660	0.017233	464231002.40
1054600289	Resistor	R85	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1211100160	Inductor	L11,L12	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
1189922180	Capacitor	C37,C42,C49,C52	Bellcore Issue 6	Level I		0.004308	4.00	.1660	0.017233	232115501.20

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**Description** Top-level assembly  
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**Time** 12:07 下午  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540756081	Resistor	RN10-RN33,RN2-RN9	Bellcore Issue 6	Level I		0.005540	32.00	1.7081	0.177284	180501719.00
14S3033800	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
1059701133	Resistor	R139	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A554963	Resistor	R198,R332	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
1189615187	Capacitor	C33,C34,C93,C95,C98	Bellcore Issue 6	Level I		0.004308	5.00	.2075	0.021541	232115501.20
1121701081	Capacitor	C10,C15,C17,C20,C21,C27,C36,C-39,C53,C68-C70,C9,C90-C92,C94	Bellcore Issue 6	Level I		0.004308	17.00	.7057	0.073239	232115501.20
1124522281	Capacitor	C1	Bellcore Issue 6	Level I		0.004308	1.00	.0415	0.004308	232115501.20
1651609990	Connection	CPU1	Bellcore Issue 6	Level I		0.011906	1.00	.1147	0.011906	83988901.06
105A548703	Resistor	R113	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
105A536523	Resistor	R43	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
1129610051	Capacitor	CA35,CA39,CA41,CA43,CA47,CA4-9,CA51,CA54	Bellcore Issue 6	Level I		0.004308	8.00	.3321	0.034466	232115501.20
14S4280106	Integrated Circuit	U14	Bellcore Issue 6	Level I		0.033681	1.00	.3245	0.033681	29690488.47
105A524903	Resistor	R354,R360	Bellcore Issue 6	Level I		0.002154	2.00	.0415	0.004308	464231002.40
105A548763	Resistor	R107	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
14S4285501	Integrated Circuit	U16	Bellcore Issue 6	Level I	9.90	0.059739	1.00	.5756	0.059739	16739358.35
1301003240	Semiconductor	D1	Bellcore Issue 6	Level I		0.022147	1.00	.2134	0.022147	45152875.38
14S2200900	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
14S3260700	Integrated Circuit	U32	Bellcore Issue 6	Level I	26.40	0.143559	1.00	1.3832	0.143559	6965793.81
1211103367	Inductor	L6	Bellcore Issue 6	Level I	13.40	0.002782	1.00	.0268	0.002782	359515987.65
1214309002	Inductor	L1-L5	Bellcore Issue 6	Level I		0.002154	5.00	.1038	0.010770	464231002.40
14S4813000	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.033681	1.00	.3245	0.033681	29690488.47
105A528703	Resistor	R109	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
121110010G	Inductor	L8	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
12313012A0	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	1.4453	0.150000	6666666.67
1314917313	Integrated Circuit	Q2	Bellcore Issue 6	Level I		0.049001	1.00	.4721	0.049001	20407702.00
175910000A	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	1.4453	0.150000	6666666.67
121110010H	Inductor	L7	Bellcore Issue 6	Level I	18.00	0.003021	1.00	.0291	0.003021	330976433.48
1315231310	Semiconductor	Q13	Bellcore Issue 6	Level I		0.073823	1.00	.7113	0.073823	13545862.62
105A533223	Resistor	R40	Bellcore Issue 6	Level I		0.002154	1.00	.0208	0.002154	464231002.40
16515A0993	Connection	DIMM2	Bellcore Issue 6	Level I		0.099219	1.00	.9560	0.099219	10078668.13

