

IMBI-Q45 Reliability Prediction Report (MTBF)

Report NO : 09I070009

06-17-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** IMBI-Q45

II . **Prediction Date:** Jun. 17, 2009

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: 25.3 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

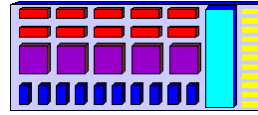
- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure 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:

- IMBI-Q45:
Failure Rate: 17.734116 ppm
MTBF: 56,388 Hours

AAEON Reliability Prediction Report

Part Number 9697IQ4502-D
Reference Des
Date 06. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.30



Description Top-level assembly
File Name IMBI-Q45.RPJ
Time 1:41 下午
Failure Rate 17.734116
MTBF 56,388

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
IMBI-Q45	9697IQ4502-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.73	56388.49

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MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501091	Capacitor	BC10,BC147,BC197, BC21,BC93,C107, C117,C124,C125, C166,C169,C179, C180,C181,C182, C183,C186,C188, C192,C193,C194, C195,C197,C20,C201, C212,C213,C217, C218,C22,C237,C24, C244,C247,C248, C251,C252,C255, C256,C258,C26,C	Telcordia Issue 1	Level I		88.00	0.004562	2.2638	219195994.91
1121501680	Capacitor	BC102,BC104,BC105, BC107,BC108,BC109, BC22,BC247,BC48, BC95,BC96,C127, C137,C138,C141, C142,C150,C151,C58	Telcordia Issue 1	Level I		19.00	0.005476	.5867	182603895.42
105A511513	Resistor	R716	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A502823	Resistor	R94	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1174518180	Capacitor	CN3,CN4,CN5,CN7, CN9	Telcordia Issue 1	Level I		5.00	0.005476	.1544	182603895.42
165300420L	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.004624	.0261	216281350.89
1651612992	Connection	CPU1	Telcordia Issue 1	Level I		1.00	0.001156	.0065	865125403.57
1129722680	Capacitor	C172,C269,C279, C280,C284,C287, C294,C3,C69	Telcordia Issue 1	Level I		9.00	0.004562	.2315	219195994.91
1129701791	Capacitor	C100,C101,C102, C312,C313,C4,C5, C64,C79,C80,C86, C87,C88,C89,C95, C96,C97,C98,C99	Telcordia Issue 1	Level I		19.00	0.004562	.4888	219195994.91
1124468090	Capacitor	C145,C146,C8,C9	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
11E9622060	Capacitor	C12,C13,C14,C15, C17,C18,C19,C23, TC1,TC2,TC3,TC4, TC5,TC6,TC7,TC8, TC9	Telcordia Issue 1	Level I		17.00	0.004562	.4373	219195994.91
11E1647650	Capacitor	C104,C121,C229,C25, C250,C261,C296, C315,C316,C330,C71, C81,C90	Telcordia Issue 1	Level I		13.00	0.043346	3.1775	23070010.76
11E9722090	Capacitor	C147,C155,C160, C199,C200,C27,C304, C322,DC1	Telcordia Issue 1	Level I		9.00	0.004562	.2315	219195994.91

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MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124522280	Capacitor	C29,C30	Telcordia Issue 1	Level I		2.00	0.004562	.0515	219195994.91
1121747890	Capacitor	C318,C52	Telcordia Issue 1	Level I		2.00	0.004562	.0515	219195994.91
1129710090	Capacitor	C144,C149,C159, C314,C319,C329,C54	Telcordia Issue 1	Level I		7.00	0.004562	.1801	219195994.91
1124510280	Capacitor	C108,C126,C133, C219,C232,C241, C260,C57	Telcordia Issue 1	Level I		8.00	0.005476	.2470	182603895.42
1129610051	Capacitor	C62,C73,EC27,TC19, TC25,TC26,TC27, TC33,TC35,TC44, TC48,TC49	Telcordia Issue 1	Level I		12.00	0.004562	.3087	219195994.91
1122522890	Capacitor	C65	Telcordia Issue 1	Level I		1.00	0.004562	.0257	219195994.91
1124510180	Capacitor	C306,C320,C321, C325,C75,C92	Telcordia Issue 1	Level I		6.00	0.004562	.1544	219195994.91
11E9647060	Capacitor	C103,C106,EC25, EC43	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
1121701790	Capacitor	C110,C114,C139, C168,C222	Telcordia Issue 1	Level I		5.00	0.004562	.1286	219195994.91
1121501050	Capacitor	C111,C119,C120, C128,C129,C143, C162,C164	Telcordia Issue 1	Level I		8.00	0.004562	.2058	219195994.91
1121610061	Capacitor	C112,C118,C131, C165,C206,C328, EC44	Telcordia Issue 1	Level I		7.00	0.004562	.1801	219195994.91
1124568180	Capacitor	C132	Telcordia Issue 1	Level I		1.00	0.004562	.0257	219195994.91
1129710391	Capacitor	C154,C158,C174	Telcordia Issue 1	Level I		3.00	0.004562	.0772	219195994.91
1124433090	Capacitor	C176	Telcordia Issue 1	Level I		1.00	0.004562	.0257	219195994.91
1122747882	Capacitor	C198,C225,C227	Telcordia Issue 1	Level I		3.00	0.004562	.0772	219195994.91
11E9647680	Capacitor	C205,C216	Telcordia Issue 1	Level I		2.00	0.004562	.0515	219195994.91
1124418080	Capacitor	C223,C224,C231, C236	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
11E9622050	Capacitor	C245,C249,C271, C286,C290,TC41, TC50	Telcordia Issue 1	Level I		7.00	0.004562	.1801	219195994.91
1124527080	Capacitor	C266,C267	Telcordia Issue 1	Level I		2.00	0.005476	.0618	182603895.42
1129610080	Capacitor	C291,C292,C310, C317,TC10,TC11, TC12,TC13,TC14, TC15,TC16,TC17, TC18,TC20,TC21, TC22,TC23,TC24, TC28,TC29,TC30, TC31,TC32,TC34, TC36,TC37,TC38, TC39,TC40,TC42, TC43,TC46,TC47, TC51,TC52,TC53, TC54,TC55,TC56,	Telcordia Issue 1	Level I		44.00	0.004562	1.1319	219195994.91
1301005442	Semiconductor	D1	Telcordia Issue 1	Level I		1.00	0.024088	.1358	41515203.19

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MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315889612	Semiconductor	D2,Q20,Q22,Q24,Q41, Q42,Q6,Q68,Q7,Q9	Telcordia Issue 1	Level I		10.00	0.080292	4.5275	12454560.96
1315889612	Semiconductor	Q8	Telcordia Issue 1	Level I	14.90	1.00	0.120626	.6802	8290055.92
1315888010	Semiconductor	D3,Q10,Q15,Q43, Q72	Telcordia Issue 1	Level I		5.00	0.080292	2.2638	12454560.96
1315888010	Semiconductor	Q4	Telcordia Issue 1	Level I	14.80	1.00	0.120313	.6784	8311659.55
1300414843	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.024088	.1358	41515203.19
1305099140	Semiconductor	D6,D7,U1,U25,U26, U3,U4	Telcordia Issue 1	Level I		7.00	0.080292	3.1693	12454560.96
1300001440	Semiconductor	D11,D12	Telcordia Issue 1	Level I		2.00	0.024088	.2717	41515203.19
118962218B	Capacitor	EC22,EC26,EC35, EC36	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
1189610189	Capacitor	EC20,EC32,EC33, EC34,EC38,EC41	Telcordia Issue 1	Level I		6.00	0.004562	.1544	219195994.91
1189647180	Capacitor	EC23,EC28,EC29, EC37	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
1189622850	Capacitor	EC30,EC31,EC39, EC40	Telcordia Issue 1	Level I		4.00	0.004562	.1029	219195994.91
121230805X	Inductor	FB1,FB30,FB31,FB35, FB43,FB45,FB53	Telcordia Issue 1	Level I		7.00	0.002281	.0900	438391989.82
1212306030	Inductor	FB14,FB51,FB63,FB8	Telcordia Issue 1	Level I		4.00	0.002281	.0515	438391989.82
1211102770	Inductor	FB15	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1212306031	Inductor	FB16,FB42,FB56	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
121110100F	Inductor	FB18,FB46	Telcordia Issue 1	Level I		2.00	0.086680	.9776	11536631.31
121110010Z	Inductor	FB20,FB24,FB36, FB49,FB60	Telcordia Issue 1	Level I		5.00	0.002281	.0643	438391989.82
121230603Z	Inductor	FB23,FB29,FB58, FB59,FB61,FB62, FB64,FB65,FB68	Telcordia Issue 1	Level I		9.00	0.002281	.1158	438391989.82
1059700001	Resistor	FB33,FB39,FB41, FB44,FB52,FB54, FB55	Telcordia Issue 1	Level I		7.00	0.002281	.0900	438391989.82
1211102269	Inductor	FB48	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1752001601	Miscellaneous	F1,F2,F3,F4,F5,FS1	Telcordia Issue 1	Level I		6.00	0.003000	.1015	333333333.33
1211105673	Inductor	L3	Telcordia Issue 1	Level I	12.20	1.00	0.109010	.6147	9173507.54
1211102266	Inductor	L6	Telcordia Issue 1	Level I	23.20	1.00	0.003475	.0196	287768528.85
1211000180	Inductor	L11	Telcordia Issue 1	Level I	17.00	1.00	0.003124	.0176	320085480.37
1211000180	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
121110100P	Inductor	L12,L13,L8	Telcordia Issue 1	Level I		3.00	0.086680	1.4663	11536631.31
1315700211	Semiconductor	Q1,Q101,Q102,Q16, Q18,Q19,Q2,Q26,Q29, Q3,Q38,Q39,Q47,Q48, Q51,Q55,Q58,Q59, Q62,Q70,Q78,Q79, Q83,Q89,Q91	Telcordia Issue 1	Level I		25.00	0.080292	11.3188	12454560.96

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Failure Rate 17.734116
MTBF 56,388

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1310222210	Semiconductor	Q12,Q13,Q14,Q23, Q40,Q44,Q49,Q50, Q54,Q56,Q57,Q60, Q61,Q63,Q64,Q66, Q69,Q71,Q76,Q80, Q84,Q87,Q88,Q92, Q93,Q95,Q96,Q97, Q98,Q99	Telcordia Issue 1	Level I		30.00	0.024088	4.0748	41515203.19
1315700217	Semiconductor	Q17,Q21,Q25,Q27, Q28,Q30,Q31	Telcordia Issue 1	Level I		7.00	0.080292	3.1693	12454560.96
1301005440	Semiconductor	Q32,Q73,Q77	Telcordia Issue 1	Level I		3.00	0.024088	.4075	41515203.19
1311006910	Semiconductor	Q35	Telcordia Issue 1	Level I		1.00	0.024088	.1358	41515203.19
1311138610	Semiconductor	Q36,Q37	Telcordia Issue 1	Level I		2.00	0.024088	.2717	41515203.19
1310390410	Semiconductor	Q11,Q45,Q46,Q5,Q52, Q53	Telcordia Issue 1	Level I		6.00	0.024088	.8150	41515203.19
1315230111	Semiconductor	Q65	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1311390610	Semiconductor	Q67,Q90,Q94	Telcordia Issue 1	Level I		3.00	0.024088	.4075	41515203.19
1315441012	Semiconductor	Q82,Q86	Telcordia Issue 1	Level I		2.00	0.080292	.9055	12454560.96
1315305411	Semiconductor	Q81	Telcordia Issue 1	Level I	25.60	1.00	0.157889	.8903	6333556.37
131411171C	Integrated Circuit	Q103	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
105A500133	Resistor	R194,R211,R537, R538,R567,R644,RB1	Telcordia Issue 1	Level I		7.00	0.002281	.0900	438391989.82
1540782080	Resistor	RN1	Telcordia Issue 1	Level I		1.00	0.006332	.0357	157923867.87
1540782280	Resistor	RN17,RN18,RN2,RN20, RN4,RN6,RN7	Telcordia Issue 1	Level I		7.00	0.006332	.2499	157923867.87
1540710080	Resistor	RN3,RN5	Telcordia Issue 1	Level I		2.00	0.006332	.0714	157923867.87
1540700080	Resistor	RN10,RN21,RN8	Telcordia Issue 1	Level I		3.00	0.012664	.2142	78961933.93
1540768180	Resistor	RN11,RN9	Telcordia Issue 1	Level I		2.00	0.006332	.0714	157923867.87
1540751080	Resistor	RN12,RN14	Telcordia Issue 1	Level I		2.00	0.006332	.0714	157923867.87
1540747180	Resistor	RN15,RN16	Telcordia Issue 1	Level I		2.00	0.006332	.0714	157923867.87
1540727280	Resistor	RN19	Telcordia Issue 1	Level I		1.00	0.006332	.0357	157923867.87
106B501032	Resistor	RT1,RT2,RT3,RT4	Telcordia Issue 1	Level I		4.00	0.002281	.0515	438391989.82
105A700003	Resistor	FB2,FB4,FB40,FB47, FB50,FB57,FB6,FB66, FB67,R1,R104,R121, R138,R140,R148, R168,R170,R2,R239, R254,R279,R280, R332,R395,R408, R484,R497,R532, R582,R605,R629, R632,R726,R733	Telcordia Issue 1	Level I		34.00	0.002281	.4373	438391989.82

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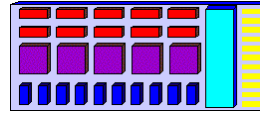


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Time 1:41 下午
Failure Rate 17.734116
MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A500139	Resistor	R223,R224,R405, R413,R423,R469, R483,R493,R502, R505,R518,R520, R606,R615,R624, R630,R643,R65,R663, R68,R709,R719,R720, R721,R722	Telcordia Issue 1	Level I		25.00	0.002281	.3216	438391989.82
105A708223	Resistor	R161,R162,R163,R70, R707,R77,R78,R86, R91	Telcordia Issue 1	Level I		9.00	0.002281	.1158	438391989.82
105A702209	Resistor	R315,R401,R402, R411,R417,R437, R442,R453,R457, R529,R602,R71	Telcordia Issue 1	Level I		12.00	0.002281	.1544	438391989.82
105A501033	Resistor	R698,R73,R76,R80	Telcordia Issue 1	Level I		4.00	0.002281	.0515	438391989.82
105A702433	Resistor	R74	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A702223	Resistor	R153,R183,R351, R398,R75	Telcordia Issue 1	Level I		5.00	0.002281	.0643	438391989.82
105A768003	Resistor	R462,R472,R88	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A502039	Resistor	R234,R468,R503, R517,R715,R93	Telcordia Issue 1	Level I		6.00	0.002281	.0772	438391989.82
105A702729	Resistor	R197,R198,R199, R200,R201,R202, R203,R204,R205, R206,R207,R724, R735,R736,R737, R738,R739,R740	Telcordia Issue 1	Level I		18.00	0.002281	.2315	438391989.82
105A702263	Resistor	R196,R216,R217, R227,R228,R229, R230,R236,R248, R249,R257,R316, R718,R723,R96,R97, R99	Telcordia Issue 1	Level I		17.00	0.002281	.2187	438391989.82
105A545303	Resistor	R102,R564	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
105A532413	Resistor	R105,R544	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
1050551004	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A700133	Resistor	R116,R146,R154, R179,R559,R571, R576,R591,R609, R621,R677,R678, R679,R690,R713	Telcordia Issue 1	Level I		15.00	0.002281	.1929	438391989.82
105A701033	Resistor	R117,R118,R539, R570	Telcordia Issue 1	Level I		4.00	0.002281	.0515	438391989.82
105A715009	Resistor	R119,R128,R131, R299,R512,R516, R524,R536,R540	Telcordia Issue 1	Level I		9.00	0.002281	.1158	438391989.82
105A515003	Resistor	R137	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82

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105A505109	Resistor	R294,R298,R304, R305,R309,R311, R312,R318,R319, R368,R372,R381	Telcordia Issue 1	Level I		12.00	0.002281	.1544	438391989.82
105A703909	Resistor	R302	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A527469	Resistor	R303	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A706209	Resistor	R310,R325,R329, R360,R380	Telcordia Issue 1	Level I		5.00	0.002281	.0643	438391989.82
105A701533	Resistor	R333	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A701009	Resistor	R340,R388,R403	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A705123	Resistor	R350,R378,R561	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A747009	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A501323	Resistor	R391	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1050524904	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A557603	Resistor	R407	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A701503	Resistor	R416	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1050703334	Resistor	R428,R441	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
105A704739	Resistor	R434,R436	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
1050519114	Resistor	R470	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A566519	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A549913	Resistor	R575,R588,R639	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A710053	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.013686	.0772	73065331.64
1050512114	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A502033	Resistor	R523,R696,R711	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A701003	Resistor	R541,R619	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
105A580663	Resistor	R542,R547,R548	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
105A524963	Resistor	R545,R647	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
105A739033	Resistor	R554,R555	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
105A701053	Resistor	R556	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1050700002	Resistor	R611	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A540263	Resistor	R622	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A539263	Resistor	R627	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A546403	Resistor	R649	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A510213	Resistor	R650	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A522663	Resistor	R653	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A505123	Resistor	R697	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
14S9341100	Integrated Circuit	U5	Telcordia Issue 1	Level I	17.90	1.00	0.208204	1.1740	4802972.55
14S5A23200	Integrated Circuit	U6	Telcordia Issue 1	Level I	20.80	1.00	0.083384	.4702	11992707.52

AAEON Reliability Prediction Report

Part Number 9697IQ4502-D
Reference Des
Date 06. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.30



Description Top-level assembly
File Name IMBI-Q45.RPJ
Time 1:41 下午
Failure Rate 17.734116
MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S5A23200	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.026648	.1503	37526359.19
14S4654500	Integrated Circuit	U37,U8	Telcordia Issue 1	Level I		2.00	0.060682	.6844	16479361.92
14S4256700	Integrated Circuit	U9	Telcordia Issue 1	Level I	9.80	1.00	0.046496	.2622	21507211.70
14S2750100	Integrated Circuit	U10	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
14S3917900	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
14S4280123	Integrated Circuit	U12	Telcordia Issue 1	Level I	18.40	1.00	0.073661	.4154	13575626.04
14S4824500	Integrated Circuit	U13	Telcordia Issue 1	Level I	21.80	1.00	0.087756	.4948	11395178.20
14S4825740	Integrated Circuit	U14	Telcordia Issue 1	Level I	14.60	1.00	0.060298	.3400	16584399.10
14S3088801	Integrated Circuit	U15	Telcordia Issue 1	Level I	14.30	1.00	0.164336	.9267	6085108.42
14S2261200	Integrated Circuit	U16	Telcordia Issue 1	Level I	18.70	1.00	0.219285	1.2365	4560283.10
1314533610	Integrated Circuit	U17	Telcordia Issue 1	Level I	9.40	1.00	0.118033	.6656	8472224.58
1314533610	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
14S4661400	Integrated Circuit	U18	Telcordia Issue 1	Level I	3.80	1.00	0.079805	.4500	12530500.97
14S9662200	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
14S9661200	Integrated Circuit	U19	Telcordia Issue 1	Level I	25.90	1.00	0.345677	1.9492	2892870.05
14S3633400	Integrated Circuit	U23	Telcordia Issue 1	Level I	14.80	1.00	0.169881	.9579	5886471.33
14S4871800	Integrated Circuit	U27	Telcordia Issue 1	Level I	13.50	1.00	0.056851	.3206	17589849.82
14S3050500	Integrated Circuit	U29	Telcordia Issue 1	Level I	16.90	1.00	0.195066	1.0999	5126472.29
1315344310	Integrated Circuit	U33	Telcordia Issue 1	Level I		1.00	0.060682	.3422	16479361.92
1314108412	Integrated Circuit	U35	Telcordia Issue 1	Level I	25.50	1.00	0.337226	1.9016	2965374.35
14S6308001	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.036678	.2068	27264461.71
1231325058	Miscellaneous	X1,Y1	Telcordia Issue 1	Level I		2.00	0.150000	1.6917	6666666.67
1231332721	Miscellaneous	X2	Telcordia Issue 1	Level I		1.00	0.150000	.8458	6666666.67
123131435B	Miscellaneous	X3	Telcordia Issue 1	Level I		1.00	0.150000	.8458	6666666.67
105A752323	Resistor	R504	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A518214	Resistor	R95	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A516913	Resistor	R488	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A519613	Resistor	R612	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
105A597604	Resistor	R489	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1212306033	Inductor	FB34,FB37	Telcordia Issue 1	Level I		2.00	0.002281	.0257	438391989.82
121230603D	Inductor	FB3,FB5,FB7	Telcordia Issue 1	Level I		3.00	0.002281	.0386	438391989.82
1214309006	Inductor	CM1,CM2,CM3,CM4, CM5,CM6	Telcordia Issue 1	Level I		6.00	0.002281	.0772	438391989.82
105A525563	Resistor	R680	Telcordia Issue 1	Level I		1.00	0.002281	.0129	438391989.82
1655404020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.002312	.0130	432562701.78
1655424020	Connection	ATX2	Telcordia Issue 1	Level I		1.00	0.013871	.0782	72093783.63
1652517220	Connection	AUDIO1	Telcordia Issue 1	Level I		1.00	0.009825	.0554	101779459.24

AAEON Reliability Prediction Report

Part Number 9697IQ4502-D
Reference Des
Date 06. 17, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.30



Description Top-level assembly
File Name IMBI-Q45.RPJ
Time 1:41 下午
Failure Rate 17.734116
MTBF 56,388

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001156	.0065	865125403.57
175011901H	Miscellaneous	XBAT1	Telcordia Issue 1	Level I		1.00	0.900000	5.0750	1111111.11
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8458	6666666.67
1654445301	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.026008	.1467	38450017.94
1653005201	Connection	CN2,USB1	Telcordia Issue 1	Level I		2.00	0.005780	.0652	173025080.71
1655008020	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.115590	.6518	8651254.04
1654409106	Connection	COM1	Telcordia Issue 1	Level I		1.00	0.001156	.0065	865125403.57
1653205203	Connection	COM2	Telcordia Issue 1	Level I		1.00	0.005780	.0326	173025080.71
1655004014	Connection	CPU_FAN1,SYS_FAN1, SYS_FAN2	Telcordia Issue 1	Level I		3.00	0.001156	.0196	865125403.57
16515C0496	Connection	DDRIII1,DDRIII2	Telcordia Issue 1	Level I		2.00	0.138708	1.5643	7209378.36
1161627100	Capacitor	EC1,EC11,EC2,EC8, EC9	Telcordia Issue 1	Level I		5.00	0.005476	.1544	182603895.42
1169656131	Capacitor	EC10,EC12,EC13, EC14,EC15,EC16, EC17,EC21,EC24,EC3, EC4,EC5,EC6,EC7	Telcordia Issue 1	Level I		14.00	0.005476	.4323	182603895.42
1653004200	Connection	FP1,FP2	Telcordia Issue 1	Level I		2.00	0.004624	.0521	216281350.89
1653002100	Connection	JP1,ME_TP1	Telcordia Issue 1	Level I		2.00	0.001156	.0130	865125403.57
1653004100	Connection	J1	Telcordia Issue 1	Level I		1.00	0.002312	.0130	432562701.78
1654612307	Connection	KM1	Telcordia Issue 1	Level I		1.00	0.001156	.0065	865125403.57
1211105674	Inductor	L1,L2,L4,L5	Telcordia Issue 1	Level I		4.00	0.086680	1.9551	11536631.31
1211102560	Inductor	L10	Telcordia Issue 1	Level I		1.00	0.086680	.4888	11536631.31
1654907002	Connection	SATA1,SATA2,SATA3	Telcordia Issue 1	Level I		3.00	0.004046	.0684	247178686.73
1652522207	Connection	USB_LAN1,USB_LAN2	Telcordia Issue 1	Level I		2.00	0.023118	.2607	43256270.18
1653300100	Connection	FP2(5-7)	Telcordia Issue 1	Level I		1.00	0.001156	.0065	865125403.57