

IMBM-935 Reliability Prediction Report (MTBF)

Report NO : 08I070005

4-24-2008

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** IMBM-935

II . **Prediction Date:** Apr. 24, 2008

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: 25.6 degree 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:**

- IMBM-935
 - Failure Rate: 19.037302 ppm
 - MTBF: 52,528 Hours

AAEON Reliability Prediction Report

Part Number 9697935004-DIP
Reference Des
Date 04. 24, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name IMBM-935.RPJ
Time 5:39 下午
Failure Rate 19.037302
MTBF 52,528

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
IMBM-935	9697935004-DIP	Belcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	19.037302	52,528

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1759100002	Miscellaneous	BZ1	Bellcore Issue 6	Level I		0.150000	1.00	.7879	0.150000	6666666.67
1653002100	Connection	JP2	Bellcore Issue 6	Level I		0.001174	1.00	.0062	0.001174	851709427.94
1653003100	Connection	JP6	Bellcore Issue 6	Level I		0.001761	1.00	.0093	0.001761	567806285.29
1653004100	Connection	JP1	Bellcore Issue 6	Level I		0.002348	1.00	.0123	0.002348	425854713.97
1653004200	Connection	FP1,FP2	Bellcore Issue 6	Level I		0.004696	2.00	.0493	0.009393	212927356.99
1653005201	Connection	USB1,USB2	Bellcore Issue 6	Level I		0.023482	2.00	.2467	0.046964	42585471.40
1655005021	Connection	CN1	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1750119011	Miscellaneous	BAT1	Bellcore Issue 6	Level I		0.900000	1.00	4.7276	0.900000	1111111.11
1653006101	Connection	IR1	Bellcore Issue 6	Level I		0.003522	1.00	.0185	0.003522	283903142.65
1653205203	Connection	COM2-COM4,DIO1	Bellcore Issue 6	Level I		0.005871	4.00	.1233	0.023482	170341885.59
1653217205	Connection	FDD1	Bellcore Issue 6	Level I		0.019960	1.00	.1048	0.019960	50100554.58
1119610190	Capacitor	EC1,EC2	Bellcore Issue 6	Level I		0.044029	2.00	.4626	0.088058	22712251.41
1655003010	Connection	DC_FAN1-DC_FAN3	Bellcore Issue 6	Level I		0.001761	3.00	.0278	0.005283	567806285.29
1211102560	Inductor	L27	Bellcore Issue 6	Level I	17.10	0.119551	1.00	.6280	0.119551	8364605.66
1211102560	Inductor	L37	Bellcore Issue 6	Level I	17.60	0.120598	1.00	.6335	0.120598	8292016.50
1653220208	Connection	IDE1	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1655404020	Connection	ATX2	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1653302150	Connection	H2,H3	Bellcore Issue 6	Level I		0.001174	2.00	.0123	0.002348	851709427.94
1654808304	Connection	USB_LAN2	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1161618110	Capacitor	EC56,EC57,EC7,EC8	Bellcore Issue 6	Level I		0.005487	4.00	.1153	0.021948	182247502.99
1169639190	Capacitor	EC10-EC13,EC24,EC25,EC53-EC55	Bellcore Issue 6	Level I		0.005487	9.00	.2594	0.049383	182247502.99
1654425302	Connection	LPT1	Bellcore Issue 6	Level I		0.014676	1.00	.0771	0.014676	68136754.24
1750220323	Connection	BAT1	Bellcore Issue 6	Level I		0.001174	1.00	.0062	0.001174	851709427.94
165440910B	Connection	COM1	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1654515308	Connection	VGA1	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1169656190	Capacitor	EC14-EC19,EC21,EC26,EC27,EC2-9,EC30,EC40-EC43	Bellcore Issue 6	Level I		0.005487	15.00	.4323	0.082306	182247502.99
1655004014	Connection	CPUFAN1,SYSFAN1	Bellcore Issue 6	Level I		0.002348	2.00	.0247	0.004696	425854713.97
1169656130	Capacitor	EC46-EC48	Bellcore Issue 6	Level I		0.005487	3.00	.0865	0.016461	182247502.99
1654907002	Connection	SATA1-SATA5	Bellcore Issue 6	Level I		0.023482	5.00	.6167	0.117411	42585471.40
1655424020	Connection	ATX1	Bellcore Issue 6	Level I		0.014089	1.00	.0740	0.014089	70975785.66

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MTBF 52,528

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1181633111	Capacitor	EC28,EC32,EC5,EC6,EC9	Bellcore Issue 6	Level I		0.004589	5.00	.1205	0.022945	217915067.83
1654260207	Connection	PC11,PC12	Bellcore Issue 6	Level I		0.070447	2.00	.7401	0.140893	14195157.13
16515C0495	Connection	DIMM1,DIMM2	Bellcore Issue 6	Level I		0.140893	2.00	1.4802	0.281786	7097578.57
1654232200	Connection	PCIE_2	Bellcore Issue 6	Level I		0.037571	1.00	.1974	0.037571	26615919.62
1211105674	Inductor	L15,L16,L23,L25	Bellcore Issue 6	Level I		0.087190	4.00	1.8320	0.348760	11469214.10
1654612307	Connection	KM1	Bellcore Issue 6	Level I		0.003522	1.00	.0185	0.003522	283903142.65
1652514210	Connection	AUDIO1	Bellcore Issue 6	Level I		0.023482	1.00	.1233	0.023482	42585471.40
1654282204	Connection	PCIE_1	Bellcore Issue 6	Level I		0.096277	1.00	.5057	0.096277	10386700.34
1653003200	Connection	JP3-JP5	Bellcore Issue 6	Level I		0.003522	1.00	.0185	0.003522	283903142.65
1059701001	Resistor	R290,R681	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A501033	Resistor	R511,R617,R627,R628,R655,R674	Bellcore Issue 6	Level I		0.002294	6.00	.0723	0.013767	435830135.66
105A700003	Resistor	R100,R102,R103,R109,R218,R220- R228,R293,R297,R302,R312,R315- R318,R319,R340,R370,R42,R43,R- 430,R44,R494,R521,R60,R608	Bellcore Issue 6	Level I		0.002294	24.00	.2893	0.055067	435830135.66
105A700003	Resistor	R610,R620,R633,R653,R658,R68,- R69,R695,R70,R702,R705,R708,R- 715,R718,R721,R735,R78,R80,R80- 4,R808,R823,R837,R868,R879	Bellcore Issue 6	Level I		0.002294	24.00	.2893	0.055067	435830135.66
105A700003	Resistor	R881,R882	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A701003	Resistor	R368,R369,R371,R372,R453,R558- R683	Bellcore Issue 6	Level I		0.002294	7.00	.0844	0.016061	435830135.66
105A701053	Resistor	R462,R724	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105S701503	Resistor	R202,R384,R451,R470,R471	Bellcore Issue 6	Level I		0.002294	5.00	.0603	0.011472	435830135.66
105A703323	Resistor	R12,R13,R21,R22,R491,R566,R569- R6,R775,R9	Bellcore Issue 6	Level I		0.002294	10.00	.1205	0.022945	435830135.66
105A707533	Resistor	R242	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A733003	Resistor	R281,R328,R331,R343,R678,R700- R731	Bellcore Issue 6	Level I		0.002294	7.00	.0844	0.016061	435830135.66
1059700001	Resistor	L35,R317,R323,R663,R682,R712,R- 94	Bellcore Issue 6	Level I		0.002294	7.00	.0844	0.016061	435830135.66
105A710053	Resistor	R444,R636	Bellcore Issue 6	Level I		0.013767	2.00	.1446	0.027534	72638355.94
105A500133	Resistor	R260,R330,R338,R353,R36,R424,- R425,R551,R552,R554-R557,R669- R670,R696,R722,R741,R753,R794- R795	Bellcore Issue 6	Level I		0.002294	21.00	.2531	0.048184	435830135.66

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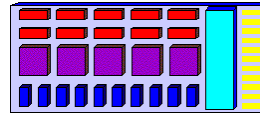


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Time 5:39 下午
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MTBF 52,528

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105A501223	Resistor	R757	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A501323	Resistor	R221,R740	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A501523	Resistor	R697	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A501533	Resistor	R443,R626,R638,R640	Bellcore Issue 6	Level I		0.002294	4.00	.0482	0.009178	435830135.66
105A502033	Resistor	R639,R676,R805	Bellcore Issue 6	Level I		0.002294	3.00	.0362	0.006883	435830135.66
105A510003	Resistor	R230,R238	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A510033	Resistor	R623,R624	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A511503	Resistor	R291,R389,R395,R397,R402,R703	Bellcore Issue 6	Level I		0.002294	6.00	.0723	0.013767	435830135.66
105A515003	Resistor	R267-R269,R55-R57,R68	Bellcore Issue 6	Level I		0.002294	7.00	.0844	0.016061	435830135.66
105A524913	Resistor	R560,R745	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A528713	Resistor	R513	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A549913	Resistor	R5	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A561903	Resistor	R61	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A702033	Resistor	R270,R294,R509,R717,R858	Bellcore Issue 6	Level I		0.002294	5.00	.0603	0.011472	435830135.66
105A747033	Resistor	R701	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A564903	Resistor	R62	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A502233	Resistor	R292,R497,R612,R671	Bellcore Issue 6	Level I		0.002294	4.00	.0482	0.009178	435830135.66
1212306030	Inductor	FB14,FB15,FB5,PB1,PB10,PB12,P-B5,PB9	Bellcore Issue 6	Level I		0.002294	8.00	.0964	0.018356	435830135.66
1212308054	Inductor	FB17,FB6,FB7,PB2,PB3,PB6-PB8	Bellcore Issue 6	Level I		0.002294	8.00	.0964	0.018356	435830135.66
1231332721	Miscellaneous	Y4	Bellcore Issue 6	Level I		0.150000	1.00	.7879	0.150000	6666666.67
1122701680	Capacitor	BC1,BC110,BC122,BC132,BC134,-BC14,BC146,BC148,BC15,BC16,B-C160,BC169,BC17,BC170-BC174,-BC18,BC185-BC187,BC189-BC193	Bellcore Issue 6	Level I		0.004589	27.00	.6508	0.123901	217915067.83
1122701680	Capacitor	BC196,BC197,BC20,BC203-BC206,BC209,BC21,BC210,BC211,BC222--BC224,BC226,BC227,BC230,BC2-32,BC234-BC240,BC242-BC251	Bellcore Issue 6	Level I		0.004589	35.00	.8437	0.160613	217915067.83
1122701680	Capacitor	BC254-BC271,BC274,BC28,BC281-BC284,BC292-BC294,BC297,BC3,-BC30-BC36,BC42,BC48,BC8,BC81-R827	Bellcore Issue 6	Level I		0.004589	39.00	.9401	0.178969	217915067.83
1122722780	Capacitor	C240,C39	Bellcore Issue 6	Level I		0.004589	2.00	.0482	0.009178	217915067.83

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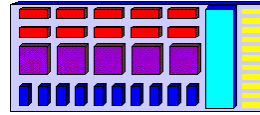


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1124510280	Capacitor	C93	Bellcore Issue 6	Level I		0.004589	1.00	.0241	0.004589	217915067.83
1124522280	Capacitor	C214,C255,C261	Bellcore Issue 6	Level I		0.004589	3.00	.0723	0.013767	217915067.83
1124427080	Capacitor	C42,C48,C64,C65	Bellcore Issue 6	Level I		0.004589	4.00	.0964	0.018356	217915067.83
1540700080	Resistor	RN5	Bellcore Issue 6	Level I		0.006419	1.00	.0337	0.006419	155778892.99
1540701380	Resistor	RN14,RN8,RN9	Bellcore Issue 6	Level I		0.006419	3.00	.1012	0.019258	155778892.99
1301005440	Semiconductor	DD1,DD2	Bellcore Issue 6	Level I		0.024296	2.00	.2552	0.048591	41159868.85
1305099140	Semiconductor	Q36,Q39	Bellcore Issue 6	Level I		0.080985	2.00	.8508	0.161970	12347960.65
1310222210	Semiconductor	Q47-Q52	Bellcore Issue 6	Level I		0.024296	6.00	.7657	0.145773	41159868.85
1311390610	Semiconductor	Q35	Bellcore Issue 6	Level I		0.024296	1.00	.1276	0.024296	41159868.85
1124556280	Capacitor	C166	Bellcore Issue 6	Level I		0.004589	1.00	.0241	0.004589	217915067.83
14S4048501	Integrated Circuit	U41,U45	Bellcore Issue 6	Level I		0.062024	2.00	.6516	0.124049	16122698.68
14S5A01400	Integrated Circuit	U36	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68
105A575003	Resistor	R713	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
14S5A01430	Integrated Circuit	U15,U17	Bellcore Issue 6	Level I		0.040704	2.00	.4276	0.081407	24567823.94
105A520003	Resistor	R237,R289,R374,R387,R388,R396	Bellcore Issue 6	Level I		0.002294	6.00	.0723	0.013767	435830135.66
105A505633	Resistor	R629	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A512033	Resistor	R441	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A733033	Resistor	R479,R480	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
105A530103	Resistor	R240	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A539263	Resistor	R251,R252	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
1124418080	Capacitor	C151,C152	Bellcore Issue 6	Level I		0.004589	2.00	.0482	0.009178	217915067.83
105A545303	Resistor	R481,R562	Bellcore Issue 6	Level I		0.002294	2.00	.0241	0.004589	435830135.66
1059710003	Resistor	R206,R215,R274,R303,R454,R460- R502,R508,R667,R755,R98	Bellcore Issue 6	Level I		0.002294	11.00	.1326	0.025239	435830135.66
1124447180	Capacitor	C128,C241,C243,C50	Bellcore Issue 6	Level I		0.004589	4.00	.0964	0.018356	217915067.83
1122722080	Capacitor	C188,C217,C219,C23,C33,C36,C37	Bellcore Issue 6	Level I		0.004589	7.00	.1687	0.032123	217915067.83
1122747080	Capacitor	C24-C27	Bellcore Issue 6	Level I		0.004589	4.00	.0964	0.018356	217915067.83
1124701680	Capacitor	BC129,BC133,BC52,BC55	Bellcore Issue 6	Level I		0.004589	4.00	.0964	0.018356	217915067.83
1310390411	Semiconductor	Q10-Q14,Q24,Q26,Q29,Q32,Q40,Q- 42,Q43,Q54,Q55,Q58-Q60,Q6,Q62- Q64,Q65,Q73,Q75,Q76,Q78,Q80,- Q83,Q86,Q89,Q9	Bellcore Issue 6	Level I		0.024296	30.00	3.8286	0.728865	41159868.85

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1310390411	Semiconductor	Q21	Bellcore Issue 6	Level I	16.20	0.037718	1.00	.1981	0.037718	26512394.32
1315700212	Semiconductor	Q27,Q28,Q30,Q31,Q33,Q68,Q69,Q-79,Q84,Q85,Q87,Q88	Bellcore Issue 6	Level I		0.080985	12.00	5.1048	0.971820	12347960.65
1121610180	Capacitor	C233-C236,C3,C32,C5,C79	Bellcore Issue 6	Level I		0.004589	8.00	.1928	0.036712	217915067.83
1300414843	Semiconductor	D1,D10-D21,D2,D4-D9	Bellcore Issue 6	Level I		0.024296	20.00	2.5524	0.485910	41159868.85
14S5A23200	Integrated Circuit	U9	Bellcore Issue 6	Level I	22.50	0.138570	1.00	.7279	0.138570	7216549.12
14S5A23200	Integrated Circuit	U4	Bellcore Issue 6	Level I	17.30	0.106034	1.00	.5570	0.106034	9430949.48
14S5A23200	Integrated Circuit	U13	Bellcore Issue 6	Level I	21.70	0.133056	1.00	.6989	0.133056	7515618.88
105A700103	Resistor	R116,R169,R187,R219,R236,R243- R247,R248,R259,R354,R393,R404- R419	Bellcore Issue 6	Level I		0.002294	13.00	.1567	0.029828	435830135.66
105A500333	Resistor	R33	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A524033	Resistor	R233	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
1174518180	Capacitor	CP1-CP8	Bellcore Issue 6	Level I		0.005487	8.00	.2306	0.043896	182247502.99
105A590963	Resistor	R709	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
1540722085	Resistor	RN10-RN13,RN15	Bellcore Issue 6	Level I		0.006419	5.00	.1686	0.032097	155778892.99
105A708229	Resistor	R159,R160,R279,R282,R284,R286- R334,R386,R391,R432,R438,R439- R514,R516,R519,R520,R522,R550- R646,R704,R720,R750,R766	Bellcore Issue 6	Level I		0.002294	23.00	.2772	0.052773	435830135.66
105A708229	Resistor	R785,R788,R791,R863,R866,R869- R871,R872,R880	Bellcore Issue 6	Level I		0.002294	9.00	.1085	0.020650	435830135.66
105A700139	Resistor	R118,R121,R126,R127,R129,R135- R146,R152,R153,R192,R195,R199- R200,R225,R235,R255,R277,R347- R413,R418,R433,R442,R449	Bellcore Issue 6	Level I		0.002294	23.00	.2772	0.052773	435830135.66
105A700139	Resistor	R459,R500,R561,R573,R58,R613,- R614,R630,R662,R677,R693,R698- R729,R736,R742,R743,R761,R763- R810	Bellcore Issue 6	Level I		0.002294	19.00	.2290	0.043595	435830135.66
105A704729	Resistor	R104,R107,R108,R110,R112,R114- R115,R117,R119,R139,R14-R18,R- 258,R264,R276,R28-R30,R306,R3- 16,R346,R486,R51,R645,R647	Bellcore Issue 6	Level I		0.002294	28.00	.3375	0.064245	435830135.66
105A704729	Resistor	R652,R656,R688,R690,R71,R738,- R74,R744,R75,R752,R76,R762,R7- 67,R77,R771,R778,R786,R789,R79- 2,R800,R801,R806,R824,R875	Bellcore Issue 6	Level I		0.002294	24.00	.2893	0.055067	435830135.66

AAEON Reliability Prediction Report

Part Number 9697935004-DIP
Reference Des
Date 04. 24, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name IMBM-935.RPJ
Time 5:39 下午
Failure Rate 19.037302
MTBF 52,528

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1129701790	Capacitor	C127,C129,C130,C144,C145,C149-,C163,C175,C256,C257,C259,C260-,C263-C265,C267-C270,C272,C274-,C281,C34,C35,C47,C51-C53	Bellcore Issue 6	Level I		0.004589	34.00	.8196	0.156024	217915067.83
1129701790	Capacitor	C60,C62,C69,C80,C82,C87	Bellcore Issue 6	Level I		0.004589	6.00	.1446	0.027534	217915067.83
14S5A00401	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.040704	1.00	.2138	0.040704	24567823.94
1124433680	Capacitor	C16-C18,C20-C22	Bellcore Issue 6	Level I		0.004589	6.00	.1446	0.027534	217915067.83
1129722680	Capacitor	C137-C140,C155,C161,C173,C179-,C63,C73,C84,C85,C91,C94,C95	Bellcore Issue 6	Level I		0.004589	15.00	.3616	0.068834	217915067.83
105A539203	Resistor	R335	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
1121733380	Capacitor	C164	Bellcore Issue 6	Level I		0.004589	1.00	.0241	0.004589	217915067.83
105A702263	Resistor	R101,R106,R125,R147,R161,R162-,R211,R217,R288,R352,R375,R379-,R679,R856	Bellcore Issue 6	Level I		0.002294	14.00	.1687	0.032123	435830135.66
105A524963	Resistor	R275,R507,R553,R578,R836	Bellcore Issue 6	Level I		0.002294	5.00	.0603	0.011472	435830135.66
1314108412	Integrated Circuit	U34	Bellcore Issue 6	Level I	24.60	0.324896	1.00	1.7066	0.324896	3077906.15
105A582563	Resistor	R664	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
121230603C	Inductor	FB1-FB4	Bellcore Issue 6	Level I		0.002294	4.00	.0482	0.009178	435830135.66
14S5A12503	Integrated Circuit	U37,U38,U40	Bellcore Issue 6	Level I		0.040704	3.00	.6414	0.122111	24567823.94
1189647190	Capacitor	EC3,EC31,EC35,EC4,EC51	Bellcore Issue 6	Level I		0.004589	5.00	.1205	0.022945	217915067.83
14S59G0800	Integrated Circuit	U10,U48	Bellcore Issue 6	Level I		0.040704	2.00	.4276	0.081407	24567823.94
105A522663	Resistor	R867	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
1304101340	Semiconductor	LED1-LED3	Bellcore Issue 6	Level I		0.005151	3.00	.0812	0.015453	194136508.00
105A505109	Resistor	R207,R216,R244,R245,R376,R377-,R398,R405,R407,R412,R416,R420-,R838,R839,R844,R847,R848,R851-,R852,R854,R855	Bellcore Issue 6	Level I		0.002294	21.00	.2531	0.048184	435830135.66
105A701539	Resistor	R120,R356,R428,R496,R65,R758	Bellcore Issue 6	Level I		0.002294	6.00	.0723	0.013767	435830135.66
105A702209	Resistor	R164,R166,R283,R769,R770,R774-,R781	Bellcore Issue 6	Level I		0.002294	7.00	.0844	0.016061	435830135.66
105A516519	Resistor	R798	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A549969	Resistor	R246,R254,R278,R32,R35,R358-R-361,R366,R373,R38-R41,R45,R49-,R853	Bellcore Issue 6	Level I		0.002294	18.00	.2169	0.041300	435830135.66
14S1035800	Integrated Circuit	U32	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68

AAEON Reliability Prediction Report

Part Number 9697935004-DIP
Reference Des
Date 04. 24, 2008
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.60



Description Top-level assembly
File Name IMBM-935.RPJ
Time 5:39 下午
Failure Rate 19.037302
MTBF 52,528

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
11C1501080	Capacitor	C251,C252,C253,C262,C266,C29,-C4,C7,C8,C83,C86,C88,C89,C92,C98,C99	Bellcore Issue 6	Level I		0.004589	16.00	.3857	0.073423	217915067.83
105A508233	Resistor	R564	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
14S5A03200	Integrated Circuit	U20	Bellcore Issue 6	Level I		0.040704	1.00	.2138	0.040704	24567823.94
1121501690	Capacitor	BC10,BC100-BC109,BC11,BC111--BC121,BC12,BC123,BC124,BC126-BC128,BC13,BC130,BC131,BC136-BC139,BC141-BC145,BC147,BC149	Bellcore Issue 6	Level I		0.004589	43.00	1.0365	0.197325	217915067.83
1121501690	Capacitor	BC150-BC159,BC161-BC168,BC177-BC184,BC188,BC19,BC194,BC195,BC198,BC199,BC2,BC200-BC202,BC207,BC208,BC212-BC219,BC22	Bellcore Issue 6	Level I		0.004589	47.00	1.1329	0.215680	217915067.83
1121501690	Capacitor	BC221,BC225,BC228,BC229,BC231,BC233,BC241,BC27,BC275-BC280,BC282,BC283,BC285-BC291,BC29,BC295,BC296,BC298,BC37,BC4	Bellcore Issue 6	Level I		0.004589	29.00	.6990	0.133079	217915067.83
1121501690	Capacitor	BC40,BC41,BC43,BC45,BC46,BC49-BC51,BC5,BC53,BC54,BC56-BC80,BC6,BC7,BC82-BC85,BC87-BC99,BC9,C56	Bellcore Issue 6	Level I		0.004589	57.00	1.3740	0.261570	217915067.83
123131435B	Miscellaneous	Y3	Bellcore Issue 6	Level I		0.150000	1.00	.7879	0.150000	6666666.67
1231325058	Miscellaneous	Y2,Y5	Bellcore Issue 6	Level I		0.150000	2.00	1.5759	0.300000	6666666.67
14S4121601	Integrated Circuit	U2	Bellcore Issue 6	Level I		0.040704	1.00	.2138	0.040704	24567823.94
14S2921400	Integrated Circuit	U23	Bellcore Issue 6	Level I	21.90	0.274286	1.00	1.4408	0.274286	3645829.71
14S2921400	Integrated Circuit	U35	Bellcore Issue 6	Level I	30.10	0.454792	1.00	2.3890	0.454792	2198805.57
106B501032	Resistor	RT1	Bellcore Issue 6	Level I		0.011741	1.00	.0617	0.011741	85170942.79
118962218B	Capacitor	EC22,EC23,EC44	Bellcore Issue 6	Level I		0.004589	3.00	.0723	0.013767	217915067.83
1189633184	Capacitor	EC37,EC39	Bellcore Issue 6	Level I		0.004589	2.00	.0482	0.009178	217915067.83
1189647180	Capacitor	EC20,EC33,EC34,EC36,EC38,EC45,EC50	Bellcore Issue 6	Level I		0.004589	7.00	.1687	0.032123	217915067.83
1189647180	Capacitor	EC52	Bellcore Issue 6	Level I	16.00	0.006172	1.00	.0324	0.006172	162020188.34
1121647480	Capacitor	C258	Bellcore Issue 6	Level I		0.004589	1.00	.0241	0.004589	217915067.83
121110100F	Inductor	L17-L20,L36	Bellcore Issue 6	Level I		0.002294	5.00	.0603	0.011472	435830135.66

AAEON Reliability Prediction Report

Part Number 9697935004-DIP
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Description Top-level assembly
File Name IMBM-935.RPJ
Time 5:39 下午
Failure Rate 19.037302
MTBF 52,528

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
121110010Z	Inductor	L24,L28,L32,L34	Bellcore Issue 6			0.000765	4.00	.0161	0.003059	1307490406.97
131411171C	Integrated Circuit	Q81	Bellcore Issue 6	Level I	19.20	0.230894	1.00	1.2129	0.230894	4330986.96
131411171C	Integrated Circuit	Q82	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68
131411171C	Integrated Circuit	Q3	Bellcore Issue 6	Level I	15.80	0.185099	1.00	.9723	0.185099	5402502.15
14S3128421	Integrated Circuit	U47	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68
1752310000	Miscellaneous	FUSE1-FUSE6	Bellcore Issue 6	Level I		0.030000	6.00	.9455	0.180000	33333333.33
1124515880	Capacitor	C165	Bellcore Issue 6	Level I		0.004589	1.00	.0241	0.004589	217915067.83
1050547004	Resistor	R212,R222,R223,R437,R463,R493-R504,R733,R796	Bellcore Issue 6	Level I		0.002294	9.00	.1085	0.020650	435830135.66
1211105673	Inductor	L14	Bellcore Issue 6	Level I		0.087190	1.00	.4580	0.087190	11469214.10
1129610080	Capacitor	TC1,TC10-TC15,TC17,TC18,TC2,-TC21,TC22,TC24-TC26,TC28,TC29-,TC3,TC30-TC36,TC4,TC40-TC50,-TC5,TC9	Bellcore Issue 6	Level I		0.004589	39.00	.9401	0.178969	217915067.83
1315888010	Semiconductor	Q22,Q34	Bellcore Issue 6	Level I		0.080985	2.00	.8508	0.161970	12347960.65
1315888010	Semiconductor	Q7	Bellcore Issue 6	Level I	18.40	0.133004	1.00	.6987	0.133004	7518554.20
1315888010	Semiconductor	Q8	Bellcore Issue 6	Level I	14.30	0.119688	1.00	.6287	0.119688	8355077.54
1315888010	Semiconductor	Q70	Bellcore Issue 6	Level I	17.40	0.129658	1.00	.6811	0.129658	7712574.72
1315888010	Semiconductor	Q44	Bellcore Issue 6	Level I	14.30	0.119688	1.00	.6287	0.119688	8355077.54
14S9811500	Integrated Circuit	U21	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68
11E2601050	Capacitor	C119,C147,C160,C229,C41,C55,C-59,C61,C77	Bellcore Issue 6	Level I		0.004589	9.00	.2169	0.041300	217915067.83
11E1647650	Capacitor	C120,C122,C176,C197,C198,C200-,C226,C230-C232,C239,C242,C244-,C247,C254,C271,C273,C31,C38,C-40,C49,C66,C74,C81	Bellcore Issue 6	Level I		0.004589	27.00	.6508	0.123901	217915067.83
11B2722650	Capacitor	C249,C30,C43-C46,C54,C67	Bellcore Issue 6	Level I		0.004589	8.00	.1928	0.036712	217915067.83
1211000180	Inductor	L26,L38	Bellcore Issue 6	Level I		0.087190	2.00	.9160	0.174380	11469214.10
14S4256203	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.040704	1.00	.2138	0.040704	24567823.94
14S4632600	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.062024	1.00	.3258	0.062024	16122698.68
14S4661400	Integrated Circuit	U12	Bellcore Issue 6	Level I	22.70	0.288484	1.00	1.5154	0.288484	3466390.78
14S4661400	Integrated Circuit	U28	Bellcore Issue 6	Level I	27.40	0.386120	1.00	2.0282	0.386120	2589866.28
105A516563	Resistor	R272	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66
105A530113	Resistor	R401	Bellcore Issue 6	Level I		0.002294	1.00	.0121	0.002294	435830135.66

