



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

PYXIS-686
Reliability Prediction Report
(MTBF)

Release Date: MAR. 11, 2002

Issue Stamp

QA Manager

QE Manager

Test Engineer

Reliability Prediction (MTBF)

I . Model Name: PYXIS-686

II .Description: Socket 370 SBC. VGA/LCD/COM Port/Print Port.

III . Prediction Date: MAR. 11. 2002

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.

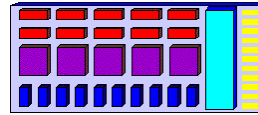
IX. Prediction Result:

- Failure Rate: 9.581707ppm
- MTBF: 104,366Hours

X. Prediction Table:

AAEON Reliability Prediction Report

Part Number 9697686086
Reference Des
Date 03. 11, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

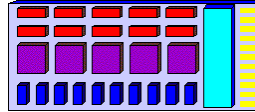


Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
PYXIS-686	9697686086	Bellcore	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	9.581707	104,366

AAEON Reliability Prediction Report

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Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

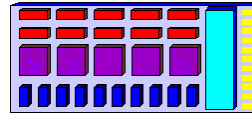


Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1059705601	Resistor	R250	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
1059701001	Resistor	R45,R58	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
1059702261	Resistor	R264	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
1059700101	Resistor	R33	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A545323	Resistor	R2,R26	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A553603	Resistor	R59	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A586663	Resistor	R219,R295	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A551123	Resistor	R101	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A590923	Resistor	R96	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A521033	Resistor	R99	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A502833	Resistor	R88	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A507523	Resistor	R106	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A556003	Resistor	R63,R283	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A511103	Resistor	R230,R233	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A560423	Resistor	R97-98	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A505603	Resistor	R7,R71	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A507503	Resistor	R75,R188,R245,R296-298	Bellcore Issue 6	Level I		0.002268	6.00	.1420	0.013606	440974090.03
105A515003	Resistor	R74,R189,R223-224,R246	Bellcore Issue 6	Level I		0.002268	5.00	.1183	0.011339	440974090.03
105A501033	Resistor	R13,R83,R87,R89,R92-93,R257	Bellcore Issue 6	Level I		0.002268	7.00	.1657	0.015874	440974090.03
105A504723	Resistor	R204	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A702723	Resistor	R65,R70,R72,R76,R78,R90,R102,- R115,R119	Bellcore Issue 6	Level I		0.002268	9.00	.2130	0.020409	440974090.03
105A700003	Resistor	R20,R56,R61,R86,R100,R105,R11- 1,R182,R277	Bellcore Issue 6	Level I		0.002268	9.00	.2130	0.020409	440974090.03
105A722003	Resistor	R118,R143,R226,R239,R248,R252- R281	Bellcore Issue 6	Level I		0.002268	7.00	.1657	0.015874	440974090.03
105A705623	Resistor	R129-135	Bellcore Issue 6	Level I		0.002268	7.00	.1657	0.015874	440974090.03
105A702263	Resistor	R16-17,R22,R28,R68-69	Bellcore Issue 6	Level I		0.002268	6.00	.1420	0.013606	440974090.03
105A701533	Resistor	R103,R109,R112,R116	Bellcore Issue 6	Level I		0.002268	4.00	.0947	0.009071	440974090.03
105A702703	Resistor	R104,R110,R113,R117	Bellcore Issue 6	Level I		0.002268	4.00	.0947	0.009071	440974090.03
105A756033	Resistor	R145	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A705163	Resistor	R52	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03

AAEON Reliability Prediction Report

Part Number 9697686086
Reference Des
Date 03. 11, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A733003	Resistor	R8,R146,R260,R262	Bellcore Issue 6	Level I		0.002268	4.00	.0947	0.009071	440974090.03
105A727003	Resistor	R199,R231,R232,R235	Bellcore Issue 6	Level I		0.002268	4.00	.0947	0.009071	440974090.03
105A700133	Resistor	R23,R73,R136-142,R144,R147-151,- R159,R163,R170,R172,R200-201,- R221,R287-288	Bellcore Issue 6	Level I		0.002268	24.00	.5680	0.054425	440974090.03
105A701033	Resistor	R3,R12,R24-25,R36,R64,R91,R125- -126,R152-153,R160-161,R164-165- ,R191,R196,R207,R228-229,R234,- R236-238,R242-243,R247,R251,R- 267-268,R271-274,R276,R280,R29- 4,R302-303	Bellcore Issue 6	Level I		0.002268	40.00	.9467	0.090708	440974090.03
105A708223	Resistor	R1R5-6,R9-11,R77,R80,R82,R84,- R127,R156,R162,R249,R254-256,- R259,R261,R269,R275,R292	Bellcore Issue 6	Level I		0.002268	22.00	.5207	0.049890	440974090.03
105A710053	Resistor	R167,R293,R300,R301	Bellcore Issue 6	Level I		0.013606	4.00	.5680	0.054425	73495681.67
105A701003	Resistor	R15,R27,R29-32,R34-35,R37-44,R- 46-51,R53-55,R57,R169,R181,R19- 5,R206,R208-213,R215-216,R263,- R282,R286	Bellcore Issue 6	Level I		0.002268	41.00	.9703	0.092976	440974090.03
105A702203	Resistor	R166,R168,R171,R173-180,R197,- R205,R222,R258	Bellcore Issue 6	Level I		0.002268	15.00	.3550	0.034016	440974090.03
105A704723	Resistor	R107-108,R114,R128,R154-155,R- 227,R240-241,R284-285,R289-290- R299	Bellcore Issue 6	Level I		0.002268	14.00	.3313	0.031748	440974090.03
105A710003	Resistor	R266,R278,R304	Bellcore Issue 6	Level I		0.002268	3.00	.0710	0.006803	440974090.03
105A747003	Resistor	R157-158	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A702003	Resistor	R18,R67	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
105A705603	Resistor	R79	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A701823	Resistor	R194	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A701523	Resistor	R218	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A705103	Resistor	R214	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A751003	Resistor	R217	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A715003	Resistor	R198	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A768003	Resistor	R202	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A704703	Resistor	R190	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
105A703303	Resistor	R62,R270,R279	Bellcore Issue 6	Level I		0.002268	3.00	.0710	0.006803	440974090.03

AAEON Reliability Prediction Report

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Reference Des
Date 03. 11, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

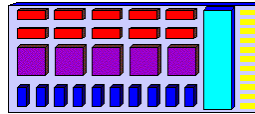


Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1122701680	Capacitor	BC1-10,BC12-13,BC17,BC22,BC24-BC26-27,BC30-32,BC42-88,BC90--94,BC97-101,BC103-104,BC106-1-09,BC111-115,BC117-132,BC138--139,BC142-190,BC192-203,BC207--208,BC211,BC215-216,BC220-223-,BC225-227,BC231-247,BC249-254-,BC266-276,BC278,BC280-281,BC-283-325,C1-10,C19,C2	Bellcore Issue 6	Level I		0.001598	308.00	5.1353	0.492049	625953979.55
1119682191	Capacitor	TC5-8,TC47,TC55	Bellcore Issue 6	Level I		0.071121	6.00	4.4536	0.426728	14060484.33
1119615291	Capacitor	TC27-28,TC40-41,TC92-95	Bellcore Issue 6	Level I		0.071121	8.00	5.9381	0.568970	14060484.33
1149533050	Capacitor	ETC1-2,TC12,TC15,TC19,TC21-23-,TC26,TC32-34,TC39,TC43-44,TC-46,TC48,TC50,TC52-54,TC57,TC5-9-61,TC63,TC65-66,TC68,TC71-74-,TC77-78,TC81-85,TC87,TC91,TC-97	Bellcore Issue 6	Level I		0.004535	43.00	2.0354	0.195023	220487045.01
1149533050	Capacitor	TC16	Bellcore Issue 6	Level I	40.20	0.003719	1.00	.0388	0.003719	268916959.55
1149533050	Capacitor	TC17	Bellcore Issue 6	Level I	39.60	0.003672	1.00	.0383	0.003672	272325813.10
1142610060	Capacitor	TC9	Bellcore Issue 6	Level I	41.00	0.001323	1.00	.0138	0.001323	755733317.67
1142610060	Capacitor	TC18,TC42,TC49,TC51,TC56,TC58-,TC64,TC69-70,TC75-76,TC79-80	Bellcore Issue 6	Level I		0.001587	13.00	.2153	0.020632	630075050.70
1149633180	Capacitor	TC20,TC24-25	Bellcore Issue 6	Level I		0.004933	3.00	.1544	0.014799	202722669.92
1149610180	Capacitor	TC1-4	Bellcore Issue 6	Level I		0.004535	4.00	.1893	0.018142	220487045.01
1144647680	Capacitor	TC10	Bellcore Issue 6	Level I	50.80	0.001136	1.00	.0119	0.001136	880248895.01
1144647680	Capacitor	TC11	Bellcore Issue 6	Level I	53.30	0.001192	1.00	.0124	0.001192	838724908.00
1144647680	Capacitor	TC13	Bellcore Issue 6	Level I	44.70	0.001006	1.00	.0105	0.001006	993838220.92
1144647680	Capacitor	TC14	Bellcore Issue 6	Level I	43.00	0.000972	1.00	.0101	0.000972	1028961630.01
1141633080	Capacitor	TC31	Bellcore Issue 6	Level I		0.002357	1.00	.0246	0.002357	424256814.77
1149610290	Capacitor	TC96	Bellcore Issue 6	Level I		0.004933	1.00	.0515	0.004933	202722669.92
1231232720	Miscellaneous	Y3-4	Bellcore Issue 6	Level I		0.150000	2.00	3.1310	0.300000	6666666.67
1231311050	Miscellaneous	Y2	Bellcore Issue 6	Level I		0.150000	1.00	1.5655	0.150000	6666666.67
1231314321	Miscellaneous	Y1	Bellcore Issue 6	Level I		0.150000	1.00	1.5655	0.150000	6666666.67
1211100100	Inductor	L10	Bellcore Issue 6	Level I	41.30	0.072295	1.00	.7545	0.072295	13832289.15
1211100100	Inductor	L16	Bellcore Issue 6	Level I	32.70	0.060127	1.00	.6275	0.060127	16631380.87

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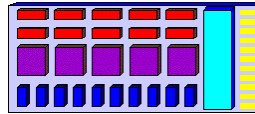


Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1211110003	Inductor	L6	Bellcore Issue 6	Level I	52.30	0.090114	1.00	.9405	0.090114	11097013.50
1211104760	Inductor	L11	Bellcore Issue 6	Level I		0.002268	1.00	.0237	0.002268	440974090.03
121230805C	Inductor	L22-23	Bellcore Issue 6	Level I		0.002268	2.00	.0473	0.004535	440974090.03
1212308050	Inductor	L1-5,L8,L12,L14-15,L17,L24	Bellcore Issue 6	Level I		0.002268	11.00	.2603	0.024945	440974090.03
1212306035	Inductor	FB1-5,L18-21	Bellcore Issue 6	Level I		0.002268	9.00	.2130	0.020409	440974090.03
1314108410	Integrated Circuit	Q4	Bellcore Issue 6	Level I	32.70	0.015489	1.00	.1617	0.015489	64562116.99
1314108514	Integrated Circuit	Q5	Bellcore Issue 6	Level I	42.30	0.033297	1.00	.3475	0.033297	30032301.64
1314310710	Integrated Circuit	Q19	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
1315020310	Integrated Circuit	U6	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
1301005442	Semiconductor	DD3	Bellcore Issue 6	Level I		0.023881	1.00	.2492	0.023881	41874327.58
1301005443	Semiconductor	DD1-2,DD4	Bellcore Issue 6	Level I		0.023881	3.00	.7477	0.071643	41874327.58
1300014040	Semiconductor	D15	Bellcore Issue 6	Level I		0.023881	1.00	.2492	0.023881	41874327.58
1302006540	Semiconductor	D4-6,D8	Bellcore Issue 6	Level I		0.027212	4.00	1.1360	0.108850	36747840.84
1302000340	Semiconductor	D13	Bellcore Issue 6	Level I		0.027212	1.00	.2840	0.027212	36747840.84
1300054040	Semiconductor	D1	Bellcore Issue 6	Level I	40.50	0.018012	1.00	.1880	0.018012	55517095.69
1300054040	Semiconductor	D2	Bellcore Issue 6	Level I	39.40	0.017413	1.00	.1817	0.017413	57429041.45
1300054040	Semiconductor	D3,D16-17	Bellcore Issue 6	Level I		0.023881	3.00	.7477	0.071643	41874327.58
1301053040	Semiconductor	D7,D9	Bellcore Issue 6	Level I		0.023881	2.00	.4985	0.047762	41874327.58
1300091400	Semiconductor	D10,D12,D14	Bellcore Issue 6	Level I		0.023881	3.00	.7477	0.071643	41874327.58
1300000540	Semiconductor	U28	Bellcore Issue 6	Level I		0.023881	1.00	.2492	0.023881	41874327.58
1304100540	Semiconductor	LED1	Bellcore Issue 6	Level I		0.004877	1.00	.0509	0.004877	205063180.81
1315700212	Semiconductor	Q6	Bellcore Issue 6	Level I		0.079603	1.00	.8308	0.079603	12562298.27
1149533050	Capacitor	TC17	Bellcore Issue 6	Level I	39.60	0.003672	1.00	.0383	0.003672	272325813.10
1315200310	Semiconductor	Q1	Bellcore Issue 6	Level I	41.90	0.062662	1.00	.6540	0.062662	15958576.93
1315200310	Semiconductor	Q2	Bellcore Issue 6	Level I	39.50	0.058222	1.00	.6076	0.058222	17175578.17
1315200310	Semiconductor	Q3	Bellcore Issue 6	Level I	40.50	0.060042	1.00	.6266	0.060042	16655128.71
1315200310	Semiconductor	Q7	Bellcore Issue 6	Level I	38.00	0.055574	1.00	.5800	0.055574	17994162.67
1315200310	Semiconductor	Q12,Q16	Bellcore Issue 6	Level I		0.079603	2.00	1.6616	0.159207	12562298.27
1310000610	Semiconductor	Q8,Q11,Q13,Q15	Bellcore Issue 6	Level I		0.023881	4.00	.9969	0.095524	41874327.58
1310390412	Semiconductor	Q17	Bellcore Issue 6	Level I		0.023881	1.00	.2492	0.023881	41874327.58
1311005510	Semiconductor	Q9,Q11,Q14	Bellcore Issue 6	Level I		0.023881	3.00	.7477	0.071643	41874327.58

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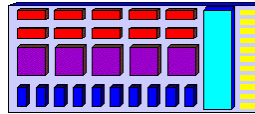


Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
14S3175300	Integrated Circuit	U8	Bellcore Issue 6	Level I	41.40	0.023349	1.00	.2437	0.023349	42829195.41
14S5900700	Integrated Circuit	U15	Bellcore Issue 6	Level I		0.065211	1.00	.6806	0.065211	15334865.74
14S5801401	Integrated Circuit	U14,U21	Bellcore Issue 6	Level I		0.037889	2.00	.7909	0.075778	26392869.26
14S5854000	Integrated Circuit	U30	Bellcore Issue 6	Level I		0.038000	1.00	.3966	0.038000	26315640.21
14S5324502	Integrated Circuit	U19	Bellcore Issue 6	Level I		0.066775	1.00	.6969	0.066775	14975683.42
14S5812500	Integrated Circuit	U31	Bellcore Issue 6	Level I		0.037813	1.00	.3946	0.037813	26445709.42
14S4015000	Integrated Circuit	U27	Bellcore Issue 6	Level I	45.00	0.029142	1.00	.3041	0.029142	34315025.50
14S8253603	Integrated Circuit	U22	Bellcore Issue 6	Level I		0.047430	1.00	.4950	0.047430	21083769.46
14S3128420	Integrated Circuit	U25-26	Bellcore Issue 6	Level I		0.059366	2.00	1.2392	0.118732	16844654.92
14S2205200	Integrated Circuit	U9	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
14S3186902	Integrated Circuit	U7	Bellcore Issue 6	Level I	41.20	0.030581	1.00	.3192	0.030581	32700576.94
14S3117200	Integrated Circuit	U5	Bellcore Issue 6	Level I	64.70	0.165431	1.00	1.7265	0.165431	6044799.63
14S4378100	Integrated Circuit	U16	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
14S4021310	Integrated Circuit	U1-2,U4	Bellcore Issue 6	Level I		0.059366	3.00	1.8587	0.178098	16844654.92
14S4021310	Integrated Circuit	U3	Bellcore Issue 6	Level I	39.20	0.026152	1.00	.2729	0.026152	38237842.72
14S3153000	Integrated Circuit	U11	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
14S4382500	Integrated Circuit	U13	Bellcore Issue 6	Level I		0.059366	1.00	.6196	0.059366	16844654.92
14S4866100	Integrated Circuit	U23	Bellcore Issue 6	Level I		0.039296	1.00	.4101	0.039296	25448028.36
14S4900000	Integrated Circuit	U10	Bellcore Issue 6	Level I		0.039296	1.00	.4101	0.039296	25448028.36
14S4397702	Integrated Circuit	U24	Bellcore Issue 6	Level I		0.039296	1.00	.4101	0.039296	25448028.36
14S4237120	Integrated Circuit	U18	Bellcore Issue 6	Level I		0.039296	1.00	.4101	0.039296	25448028.36
14S4244300	Integrated Circuit	U17	Bellcore Issue 6	Level I		0.033760	1.00	.3523	0.033760	29621235.41
14S4055200	Integrated Circuit	U12	Bellcore Issue 6	Level I		0.039296	1.00	.4101	0.039296	25448028.36
14S6200201	Integrated Circuit	U20	Bellcore Issue 6	Level I		0.136173	1.00	1.4212	0.136173	7343591.05
14S6334600	Integrated Circuit	U29	Bellcore Issue 6	Level I		0.030598	1.00	.3193	0.030598	32681842.61
1540727180	Resistor	RP75-76	Bellcore Issue 6	Level I		0.006246	2.00	.1304	0.012492	160102772.00
1540733082	Resistor	RP61-74	Bellcore Issue 6	Level I		0.006246	14.00	.9126	0.087444	160102772.00
1540782280	Resistor	RP21,RP36-37,RP42-60	Bellcore Issue 6	Level I		0.006246	22.00	1.4341	0.137412	160102772.00
1540700080	Resistor	RP34-35	Bellcore Issue 6	Level I		0.006246	2.00	.1304	0.012492	160102772.00
1540727280	Resistor	RP38-41	Bellcore Issue 6	Level I		0.006246	4.00	.2607	0.024984	160102772.00
1540747282	Resistor	RP14	Bellcore Issue 6	Level I		0.006246	1.00	.0652	0.006246	160102772.00

AAEON Reliability Prediction Report

Part Number 9697686086
Reference Des
Date 03. 11, 2002
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description Top-level assembly
File Name PYXIS-686.RPJ
Time 11:36 AM
Failure Rate 9.581707
MTBF 104,366

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1540718280	Resistor	RP13,RP15,RP17	Bellcore Issue 6	Level I		0.006246	3.00	.1956	0.018738	160102772.00
1540756080	Resistor	RP1-12,RP16,RP18-20,RP22-33	Bellcore Issue 6	Level I		0.006246	28.00	1.8252	0.174888	160102772.00
1653004100	Connection	CN28	Bellcore Issue 6	Level I		0.002276	1.00	.0238	0.002276	439390135.35
1655004012	Connection	CN19	Bellcore Issue 6	Level I		0.002276	1.00	.0238	0.002276	439390135.35
1655005011	Connection	CN21,CN25	Bellcore Issue 6	Level I		0.002845	2.00	.0594	0.005690	351512108.28
1654415201	Connection	CN23	Bellcore Issue 6	Level I		0.009672	1.00	.1009	0.009672	103385914.20
1655112010	Connection	CN9	Bellcore Issue 6	Level I		0.006828	1.00	.0713	0.006828	146463378.45
1654031001	Connection	CN24	Bellcore Issue 6	Level I		0.017638	1.00	.1841	0.017638	56695501.34
1653002100	Connection	JP4-5,JP7	Bellcore Issue 6	Level I		0.001138	3.00	.0356	0.003414	878780270.71
1653003100	Connection	JP3,JP6	Bellcore Issue 6	Level I		0.001707	2.00	.0356	0.003414	585853513.81
1655003011	Connection	CN26-27	Bellcore Issue 6	Level I		0.001707	2.00	.0356	0.003414	585853513.81
1653220209	Connection	CN11,CN13	Bellcore Issue 6	Level I		0.022759	2.00	.4750	0.045518	43939013.54
1653213205	Connection	CN14-15	Bellcore Issue 6	Level I		0.014793	2.00	.3088	0.029586	67598482.36
1653013206	Connection	CN18	Bellcore Issue 6	Level I		0.014793	1.00	.1544	0.014793	67598482.36
1653208204	Connection	CN20	Bellcore Issue 6	Level I		0.009104	1.00	.0950	0.009104	109847533.84
1651607920	Connection	FC1	Bellcore Issue 6	Level I		0.210519	1.00	2.1971	0.210519	4750163.63
1651584490	Connection	DIMM1	Bellcore Issue 6	Level I		0.095587	1.00	.9976	0.095587	10461669.89
1654260201	Connection	PCI1-4	Bellcore Issue 6	Level I		0.068276	4.00	2.8503	0.273106	14646337.85
1654249202	Connection	ISA1-3	Bellcore Issue 6	Level I		0.055759	3.00	1.7458	0.167277	17934291.24
1750220320	Connection	BT1	Bellcore Issue 6	Level I		0.001138	1.00	.0119	0.001138	878780270.71
1651203291	Connection	U20	Bellcore Issue 6	Level I		0.018207	1.00	.1900	0.018207	54923766.92
1655002011	Connection	CN1,CN3,CN29	Bellcore Issue 6	Level I		0.001138	3.00	.0356	0.003414	878780270.71
1653217208	Connection	CN8	Bellcore Issue 6	Level I		0.019345	1.00	.2019	0.019345	51692957.10
1653205204	Connection	CN4-7	Bellcore Issue 6	Level I		0.005690	4.00	.2375	0.022759	175756054.14
1653004100	Connection	CN2	Bellcore Issue 6	Level I		0.002276	1.00	.0238	0.002276	439390135.35
1655005011	Connection	CN17	Bellcore Issue 6	Level I		0.002845	1.00	.0297	0.002845	351512108.28
1654612303	Connection	CN12	Bellcore Issue 6	Level I		0.009672	1.00	.1009	0.009672	103385914.20
1654808303	Connection	CN22	Bellcore Issue 6	Level I		0.006828	1.00	.0713	0.006828	146463378.45
1651584490	Connection	DIMM2	Bellcore Issue 6	Level I		0.095587	1.00	.9976	0.095587	10461669.89
1600010803	Switching Device	SW1	Bellcore Issue 6	Level I		0.085346	1.00	.8907	0.085346	11717070.28
1752311000	Miscellaneous	FS1-7	Bellcore Issue 6	Level I		0.030000	7.00	2.1917	0.210000	33333333.33



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

Pyxis-686

Thermal Image Analysis Report

Release Date : MAR. 11, 2002

Issue Stamp

QA Manager

QE Manager

Test Engineer

Thermal Image Analysis

I . Model Name: Pyxis-686 Rev.A1.2(BIOS 1.0 09/06/2001)

II . Description: Socket 370 SBC. VGA/LCD/COM Port/Print Port.

III . Date: MAR. 11, 2002

IV. Measure Site: AAEON QE Dept.

V . Issued by : Linda Sun

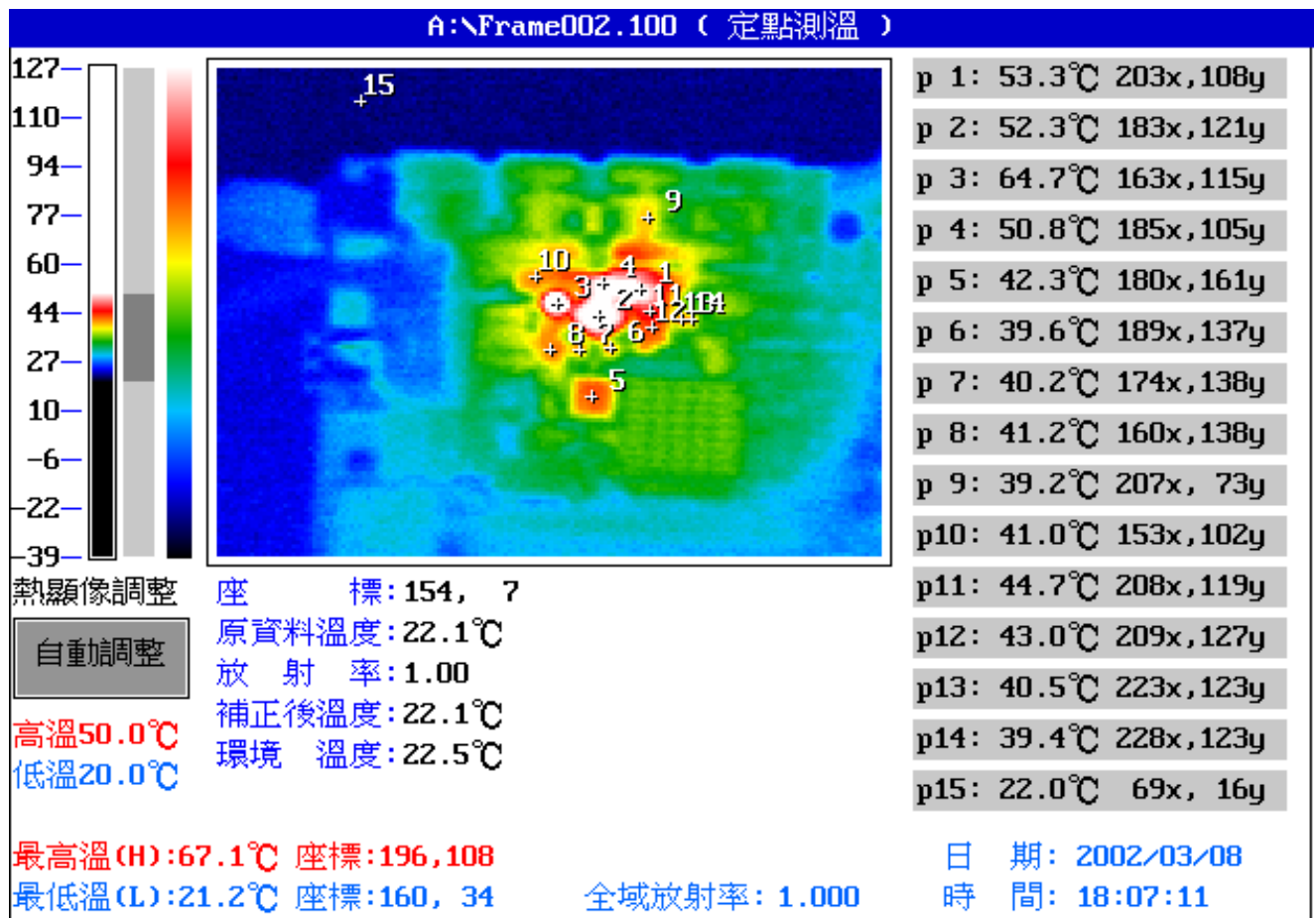
VI.Equipment: TVS-100 series by NIPPON AVIONICS CO., LTD.

VII. Simulation Environment:

- **Temperature: 23.1 degrees C**
- **CPU: Intel Pentium III 850MHz(100*8.5)**
- **RAM: 128 MB(NEC D4564841G5-A80-9JF,PC-100)**
- **Hardware: Fujitsu MPC3043AP-E 4.3GB**
- **Application Software: BurnIn Test V2.2**
- **Take Picture Time: Power on 30 minutes after**

Temperature Profile Test:

Component Side-1:



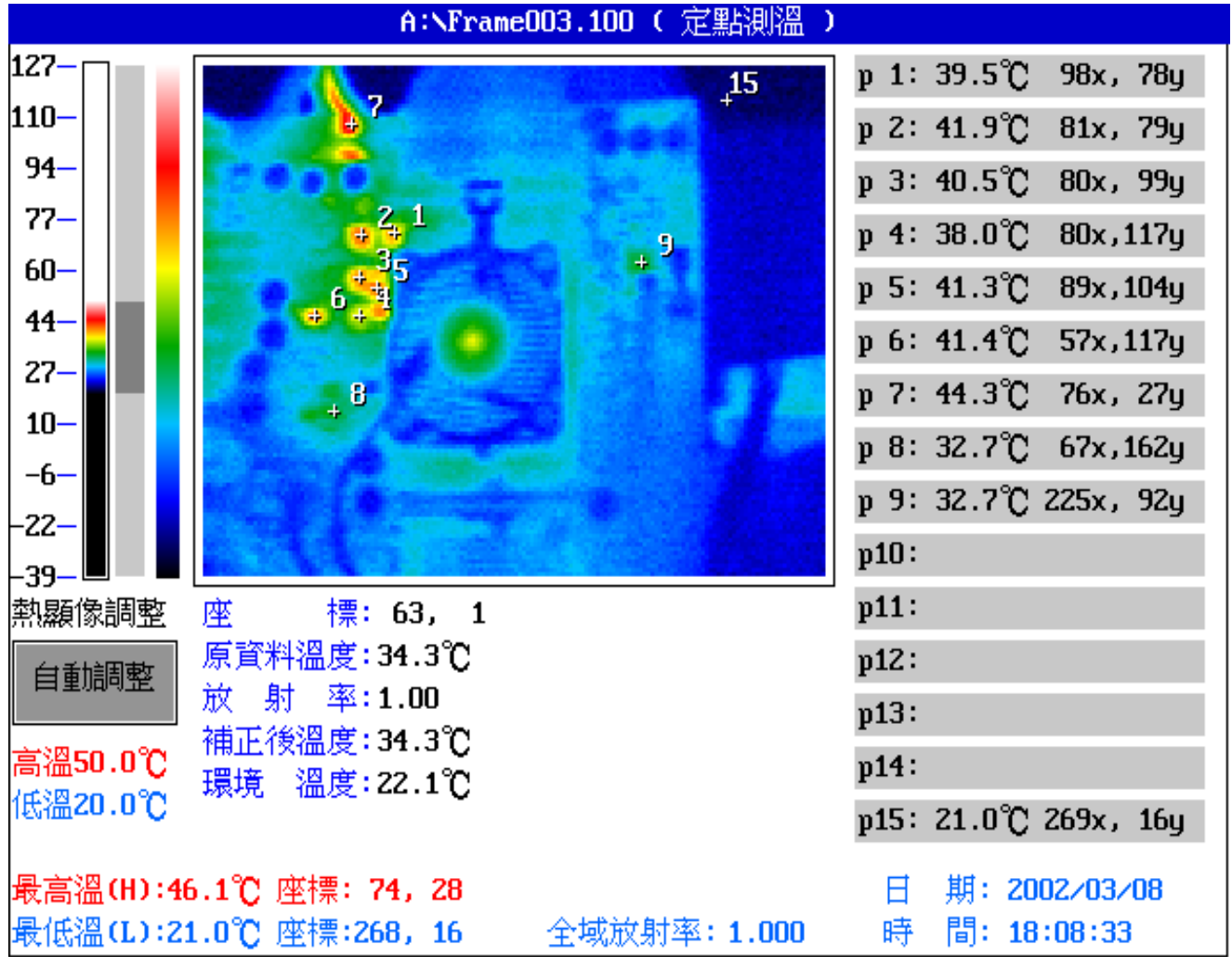
Point	Position	Describe	Ts	Tm	Note
1	TC11	TCC.4.7uF.50V.20%.D.SMD.KEMET.T491D475M0 50AS		53.3°C	
2	L6	COIL. 100uH. SMD Drum Choke with Base. GDO0804-101M.DCR=0.23ohm last=1.2A		52.3°C	
3	U5	IC.SMD.Regulator.LINEAR.LT1172CS8		64.7°C	
4	TC10	TCC.4.7uF.50V.20%.D.SMD.KEMET.T491D475M0 50AS		50.8°C	
5	Q5	REG.SMD.3A Linear Regulator. AMS.AMS1085CM-3.3		42.3°C	
6	TC17	TCC. 33uF. 10V. 10%. B.SMD.		39.6°C	
7	TC16			40.2°C	
8	U7	IC.SMD.DALLAS.DS1869S-10		41.2°C	
9	U3	IC. SMD SSOP. RS232 Driver ESD 15KV. INTERSIL. HIN213ECA-T		39.2°C	
10	TC9	TCC. 10uF. 25V. 20%. C.SMD.		41.0°C	
11	TC13	TCC.4.7uF.50V.20%.D.SMD.KEMET.T491D475M0 50AS		44.7°C	
12	TC14			43.0°C	
13	D1	D Schottky. 40V. 0.5A. SMD. SOD-123 PWR RECT. ON.MBR0540		40.5°C	
14	D2			39.4°C	
15		The Room Temperature		22.0°C	

1. Operation Temperature (°C):

Ts = Defined by component specification ; Tm = Measured by QE

2. ※ = Ts - (Tm + 60 - 25)

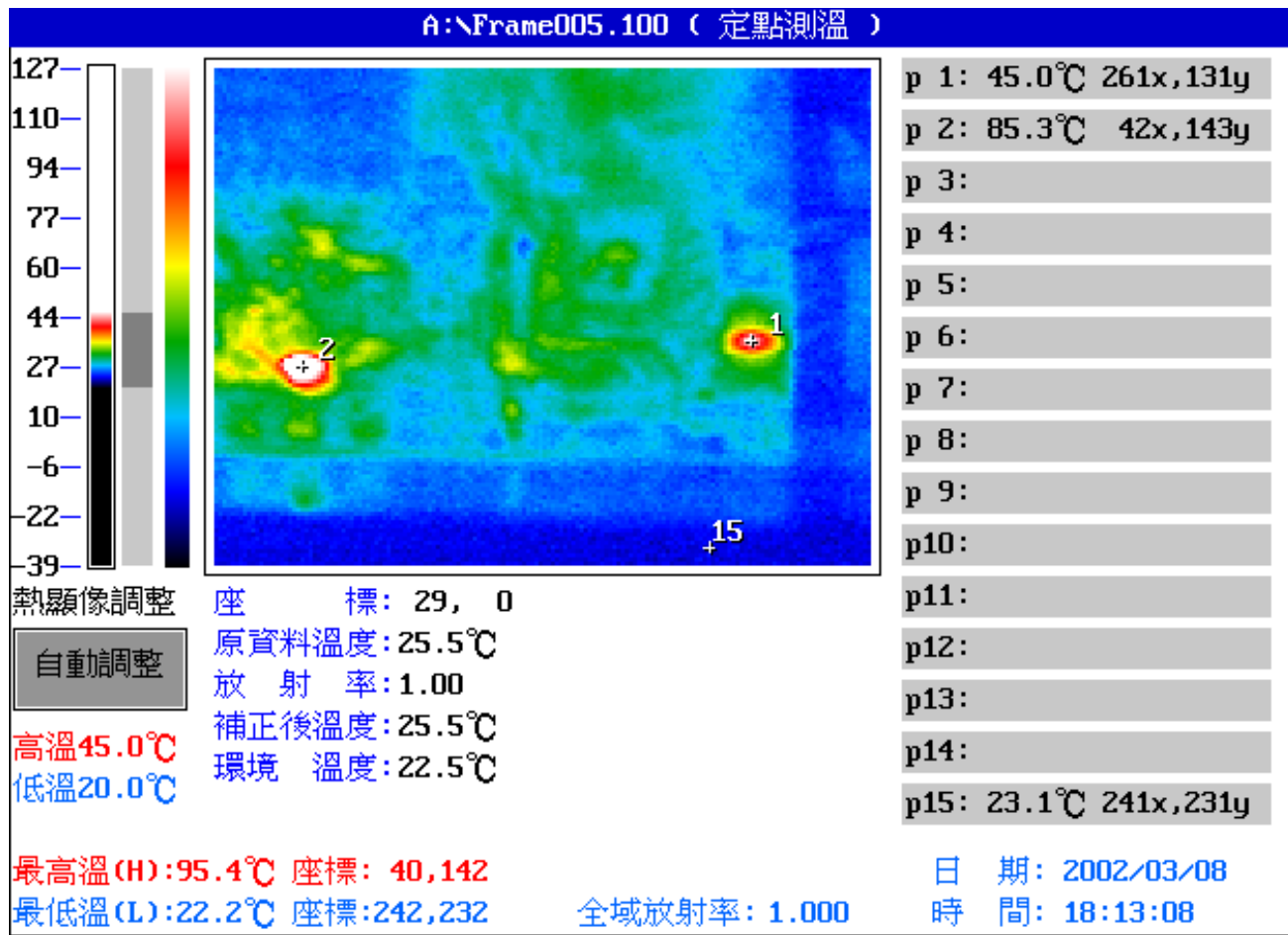
Component Side-2:



Point	Position	Describe	Ts	Tm	Note
1	Q2	PWR. DPAK CASE 369A-13 MOSFET. ON SEMI. MTD20N03HDLT4		39.5°C	
2	Q1			41.9°C	
3	Q3			40.5°C	
4	Q7			38.0°C	
5	L10	COIL.1uH.DIP WIRE SIZE 1.0mm.		41.3°C	
6	U8	IC. 5 bit. Switching Reg Controller. Linear. LTC1753CG		41.4°C	
7		Power Cable		44.3°C	
8	L16	COIL.1uH.DIP WIRE SIZE 1.0mm.		32.7°C	
9	Q4	REG. SMD. 5A Linear Regulator. AMS. AMS1084CM-1.5		32.7°C	
15		The Room Temperature		21.0°C	

1. Operation Temperature (°C):
 Ts = Defined by component specification ; Tm = Measured by QE
 2. ※ = Ts - (Tm + 60 - 25)

Solder Side:



Point	Position	Describe	Ts	Tm	Note
1	U27	IC. SMD SSOP 56Pin. Freq. Synthesizer for 440BX. CYPRESS.W150-H		45.0°C	
2		Open space		85.3°C	
15		The Room Temperature		23.1°C	

1. Operation Temperature (°C):

Ts = Defined by component specification ; Tm = Measured by QE

2. ※ = Ts - (Tm + 60 - 25)