

AAEON Reliability Prediction Report

Part Number TBOX-3303
Reference Des
Date 11. 29, 2001
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00

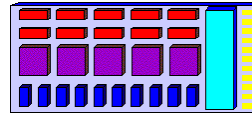


Description Power Transfer Board(In
File Name TBOX-3303.RPJ
Time 1:34 PM
Failure Rate 55.323933
MTBF 18,075

| Assembly Name | Part Number | Model | Method | Environment | Duty Cycle | Qty | Failure Rate | MTBF |
|---|-------------|----------|-----------------|------------------------|------------|------|--------------|------------|
| TBOX-3303 | TBOX-3303 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 55.323933 | 18,075 |
| -MB-668 | 9697668080 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 12.219121 | 81,839 |
| -ASS'Y PC to LCD Board | 969B300600 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.126815 | 7,885,502 |
| -Retractable HDD Board Module for all | 96910P3K00 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.053483 | 18,697,453 |
| -ASS'Y Riser Card.TBOX-3303. | 969B500100 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.521679 | 1,916,887 |
| -FDD&CD-ROM (Input) Board assembly | 96910P3K05 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.103968 | 9,618,300 |
| -FDD&CD-ROM (Output) Board assembly | 9691666612 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.089328 | 11,194,653 |
| -ASS'Y.Power Transfer Board(PC) | 969B330300 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.014793 | 67,598,482 |
| -ASS'Y. Power Transfer Board(3303-Power) | 969B330301 | Bellcore | Method I Case 3 | GF, GU - Ground Fixed, | 100.00 | 1.00 | 0.014793 | 67,598,482 |

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Part Number 9697668080
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Temperature 25.00



Description CPU Board
File Name TBOX-3303.RPJ
Time 1:34 PM
Failure Rate 12.219121
MTBF 81,839

| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|-----------|---|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|---------------|
| 1129701080 | Capacitor | CO1-12,C10,C103,C17,C356,C48--50,C52,C72,C88 | Bellcore Issue 6 | Level I | | 0.005466 | 22.00 | .9841 | 0.120244 | 182961702.19 |
| 1141601090 | Capacitor | C69 | Bellcore Issue 6 | Level I | | 0.002357 | 1.00 | .0193 | 0.002357 | 424256814.77 |
| 1129747650 | Capacitor | C5,C7,CP1-12,CP25 | Bellcore Issue 6 | Level I | | 0.005466 | 15.00 | .6710 | 0.081984 | 182961702.19 |
| 1174533080 | Capacitor | CP16-24 | Bellcore Issue 6 | Level I | | 0.001060 | 36.00 | .3124 | 0.038168 | 943198589.05 |
| 1124427080 | Capacitor | C388-391 | Bellcore Issue 6 | Level I | | 0.001060 | 4.00 | .0347 | 0.004241 | 943198589.05 |
| 1141610050 | Capacitor | C224,C361,C392,C436,C51,C76-77-CT1-5,TC4-8 | Bellcore Issue 6 | Level I | | 0.002357 | 18.00 | .3472 | 0.042427 | 424256814.77 |
| 1124410080 | Capacitor | C1-2,C181-185,C187-194,C241-26-4,C438 | Bellcore Issue 6 | Level I | | 0.001060 | 40.00 | .3471 | 0.042409 | 943198589.05 |
| 1142610060 | Capacitor | C3,C6 | Bellcore Issue 6 | Level I | | 0.001587 | 2.00 | .0260 | 0.003174 | 630075050.70 |
| 1124501780 | Capacitor | C351-354,C365-366,C378,C38,C4,-C58,C67-68 | Bellcore Issue 6 | Level I | | 0.001060 | 12.00 | .1041 | 0.012723 | 943198589.05 |
| 1122701680 | Capacitor | C102,C108-111,C114-117,C11-13,-C144,C158-165,C167-C168,C170--178,C16,C186,C21,C217-222,C226-227,C229-232,C234-235,C239,C2-82-289,C298-341,C31-37,C363,C3-67-370,C374-376,C379-387,C39-47-,C393-394,C437,C446-451,C475-4-84,C487-496,C506-513,C61-62,C71-C79-80,C87,C9 | Bellcore Issue 6 | Level I | | 0.001598 | 179.00 | 2.3403 | 0.285964 | 625953979.55 |
| 1124420080 | Capacitor | C134-135,C29 | Bellcore Issue 6 | Level I | | 0.001060 | 3.00 | .0260 | 0.003181 | 943198589.05 |
| 1124601860 | Capacitor | C19-20,C75,C78 | Bellcore Issue 6 | Level I | | 0.001060 | 4.00 | .0347 | 0.004241 | 943198589.05 |
| 1124447080 | Capacitor | C100,C145-148,C205-213,C97-99 | Bellcore Issue 6 | Level I | | 0.001060 | 17.00 | .1475 | 0.018024 | 943198589.05 |
| 1124547180 | Capacitor | C25-C28 | Bellcore Issue 6 | Level I | | 0.001060 | 4.00 | .0347 | 0.004241 | 943198589.05 |
| 1125501760 | Capacitor | C105,C74,C92 | Bellcore Issue 6 | Level I | | 0.000864 | 3.00 | .0212 | 0.002591 | 1157799909.29 |
| 1124510180 | Capacitor | C106,C107,C112,C113,C118-C133-C197-C204,C266-C281 | Bellcore Issue 6 | Level I | | 0.001060 | 44.00 | .3818 | 0.046650 | 943198589.05 |
| 1124522180 | Capacitor | C63 | Bellcore Issue 6 | Level I | | 0.001060 | 1.00 | .0087 | 0.001060 | 943198589.05 |
| 1124547280 | Capacitor | C64 | Bellcore Issue 6 | Level I | | 0.001060 | 1.00 | .0087 | 0.001060 | 943198589.05 |
| 1141647080 | Capacitor | C101,C104,C70,C73,C86,C89 | Bellcore Issue 6 | Level I | | 0.002357 | 6.00 | .1157 | 0.014142 | 424256814.77 |
| 1149622180 | Capacitor | C395-396,C81-84 | Bellcore Issue 6 | Level I | | 0.004535 | 6.00 | .2227 | 0.027212 | 220487045.01 |
| 1124518180 | Capacitor | C290-297,C342-350 | Bellcore Issue 6 | Level I | | 0.001060 | 17.00 | .1475 | 0.018024 | 943198589.05 |
| 1124415080 | Capacitor | C179-180,C214-215,C416 | Bellcore Issue 6 | Level I | | 0.001060 | 5.00 | .0434 | 0.005301 | 943198589.05 |
| 1124433080 | Capacitor | C195-196,C237-238,C29 | Bellcore Issue 6 | Level I | | 0.001060 | 5.00 | .0434 | 0.005301 | 943198589.05 |

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Temperature 25.00

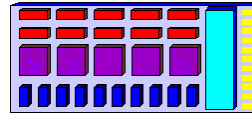


Description CPU Board
File Name TBOX-3303.RPJ
Time 1:34 PM
Failure Rate 12.219121
MTBF 81,839

| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|--------------------|--|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|--------------|
| 1141622060 | Capacitor | C228 | Bellcore Issue 6 | Level I | | 0.002357 | 1.00 | .0193 | 0.002357 | 424256814.77 |
| 1124527180 | Capacitor | C410-411 | Bellcore Issue 6 | Level I | | 0.001060 | 2.00 | .0174 | 0.002120 | 943198589.05 |
| 1122747880 | Capacitor | C413 | Bellcore Issue 6 | Level I | | 0.001598 | 1.00 | .0131 | 0.001598 | 625953979.55 |
| 1302000340 | Semiconductor | D1 | Bellcore Issue 6 | Level I | | 0.027212 | 1.00 | .2227 | 0.027212 | 36747840.84 |
| 1300581740 | Semiconductor | D12-13,D3 | Bellcore Issue 6 | Level I | | 0.023881 | 3.00 | .5863 | 0.071643 | 41874327.58 |
| 1301005440 | Semiconductor | D4-5 | Bellcore Issue 6 | Level I | | 0.023881 | 2.00 | .3909 | 0.047762 | 41874327.58 |
| 1300414840 | Semiconductor | D8-11,D14,D18,D18-20,D6 | Bellcore Issue 6 | Level I | | 0.023881 | 9.00 | 1.7590 | 0.214929 | 41874327.58 |
| 1305099140 | Semiconductor | D15-17 | Bellcore Issue 6 | Level I | | 0.023881 | 3.00 | .5863 | 0.071643 | 41874327.58 |
| 1752000700 | Miscellaneous | FS1 | Bellcore Issue 6 | Level I | | 0.030000 | 1.00 | .2455 | 0.030000 | 33333333.33 |
| 1752311000 | Miscellaneous | FS2-4 | Bellcore Issue 6 | Level I | | 0.030000 | 3.00 | .7366 | 0.090000 | 33333333.33 |
| 1213130008 | Inductor | LN1-9 | Bellcore Issue 6 | Level I | | 0.002268 | 36.00 | .6681 | 0.081637 | 440974090.03 |
| 121308050 | Inductor | FB1-7,L1-5,L7-9,L16-25,L27-33,L36-41,L46 | Bellcore Issue 6 | Level I | | 0.002268 | 39.00 | .7238 | 0.088441 | 440974090.03 |
| 1212308057 | Inductor | L38 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1212306035 | Inductor | L48 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1212312063 | Inductor | L34 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1212306034 | Inductor | L26,R189 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 1212306031 | Inductor | L10-12 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 1211102200 | Inductor | L13 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1212306030 | Inductor | L42-45 | Bellcore Issue 6 | Level I | | 0.002268 | 4.00 | .0742 | 0.009071 | 440974090.03 |
| 1211102767 | Inductor | L47 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1315500311 | Semiconductor | Q2,Q3 | Bellcore Issue 6 | Level I | 15.00 | 0.120000 | 2.00 | 1.9641 | 0.240000 | 8333333.33 |
| 1314838410 | Integrated Circuit | Q4-6 | Bellcore Issue 6 | Level I | 15.00 | 0.168759 | 3.00 | 4.1433 | 0.506276 | 5925622.25 |
| 1315700210 | Semiconductor | Q7-8 | Bellcore Issue 6 | Level I | | 0.159207 | 2.00 | 2.6059 | 0.318413 | 6281149.14 |
| 1310390410 | Semiconductor | Q1,Q9-10,Q13-14,Q16 | Bellcore Issue 6 | Level I | | 0.023881 | 6.00 | 1.1726 | 0.143286 | 41874327.58 |
| 1310222210 | Semiconductor | Q11-12,Q15 | Bellcore Issue 6 | Level I | | 0.023881 | 3.00 | .5863 | 0.071643 | 41874327.58 |
| 1540727280 | Resistor | RN1-2,RN25,RN27,RN70-71 | Bellcore Issue 6 | Level I | | 0.006246 | 6.00 | .3067 | 0.037476 | 160102772.00 |
| 1540782280 | Resistor | RN12-24,RN26,RN3-9,RN61-62 | Bellcore Issue 6 | Level I | | 0.006246 | 23.00 | 1.1757 | 0.143658 | 160102772.00 |
| 1540756280 | Resistor | RN10-11 | Bellcore Issue 6 | Level I | | 0.006246 | 2.00 | .1022 | 0.012492 | 160102772.00 |
| 1540747282 | Resistor | RN29-30,RN63-64,RN67-68,RN89-90,RN93-94 | Bellcore Issue 6 | Level I | | 0.006246 | 10.00 | .5112 | 0.062460 | 160102772.00 |
| 1540756080 | Resistor | RN31-58 | Bellcore Issue 6 | Level I | | 0.006246 | 28.00 | 1.4313 | 0.174888 | 160102772.00 |

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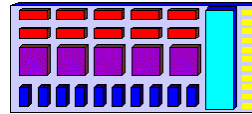


Description CPU Board
File Name TBOX-3303.RPJ
Time 1:34 PM
Failure Rate 12.219121
MTBF 81,839

| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|----------|--|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|--------------|
| 1540715380 | Resistor | RN60 | Bellcore Issue 6 | Level I | | 0.006246 | 1.00 | .0511 | 0.006246 | 160102772.00 |
| 1540733082 | Resistor | RN65-66,RN69,RN72-77,RN80-86,-RN88,RN91-92,RN95 | Bellcore Issue 6 | Level I | | 0.006246 | 20.00 | 1.0223 | 0.124920 | 160102772.00 |
| 1540701380 | Resistor | RN78,RN87 | Bellcore Issue 6 | Level I | | 0.006246 | 2.00 | .1022 | 0.012492 | 160102772.00 |
| 105A501033 | Resistor | R142-143,R145-146,R149,R153,R-53 | Bellcore Issue 6 | Level I | | 0.002268 | 7.00 | .1299 | 0.015874 | 440974090.03 |
| 105A705603 | Resistor | R1,R87-88 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 105A700133 | Resistor | R11,R122-128,R159-160,R17,R190-,R2,R202,R27,R284-285,R295-296-,R305,R31,R32,R353,R359,R38,R-52,R72-R74,R79 | Bellcore Issue 6 | Level I | | 0.002268 | 33.00 | .6124 | 0.074834 | 440974090.03 |
| 105A700003 | Resistor | R131,R133,R144,R191-192,R203,-R207,R22,R225-233,R235,R237,R-239,R241,R243,R282,R287,R299,-R3,R339-340,R360,R361,R363,R3-64,R83 | Bellcore Issue 6 | Level I | | 0.002268 | 33.00 | .6124 | 0.074834 | 440974090.03 |
| 105A702723 | Resistor | R18,R25-26,R29,R35,R4,R49,R57,-R61,R8-9 | Bellcore Issue 6 | Level I | | 0.002268 | 11.00 | .2041 | 0.024945 | 440974090.03 |
| 105A704723 | Resistor | R13,R132,R134,R136-137,R156,R-158,R187-188,R193,R20,R234,R2-70-274,R33,R368-R370,R5,R50,R5-1,R63 | Bellcore Issue 6 | Level I | | 0.002268 | 25.00 | .4640 | 0.056693 | 440974090.03 |
| 105A733003 | Resistor | R275-279,R288,R30,R300,R302,R-34,R36-37,R6-7,R77,R80,R85,R89-94,R97 | Bellcore Issue 6 | Level I | | 0.002268 | 24.00 | .4454 | 0.054425 | 440974090.03 |
| 105A702203 | Resistor | R106,R14,R351,R60 | Bellcore Issue 6 | Level I | | 0.002268 | 4.00 | .0742 | 0.009071 | 440974090.03 |
| 105A710033 | Resistor | R16,R309-310,R45 | Bellcore Issue 6 | Level I | | 0.002268 | 4.00 | .0742 | 0.009071 | 440974090.03 |
| 105A702053 | Resistor | R19 | Bellcore Issue 6 | Level I | | 0.013606 | 1.00 | .1114 | 0.013606 | 73495681.67 |
| 105A701533 | Resistor | R21,R292,R294,R58-59 | Bellcore Issue 6 | Level I | | 0.002268 | 5.00 | .0928 | 0.011339 | 440974090.03 |
| 105A547033 | Resistor | R114-115,R24 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 105A710003 | Resistor | R157,R28,R47,R75-76,R81 | Bellcore Issue 6 | Level I | | 0.002268 | 6.00 | .1114 | 0.013606 | 440974090.03 |
| 105A507503 | Resistor | R40-41,R95 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 105A515003 | Resistor | R43-44,R96 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 105A701033 | Resistor | R101,R138-141,R152,R161,R217,-R221,R336,R46 | Bellcore Issue 6 | Level I | | 0.002268 | 11.00 | .2041 | 0.024945 | 440974090.03 |
| 105A707503 | Resistor | R212-215,R54-56 | Bellcore Issue 6 | Level I | | 0.002268 | 7.00 | .1299 | 0.015874 | 440974090.03 |

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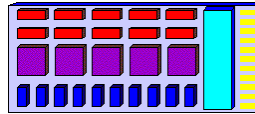


Description CPU Board
File Name TBOX-3303.RPJ
Time 1:34 PM
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| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|----------|---|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|--------------|
| 105A703303 | Resistor | R1,R216,R220,R267,R289-290,R3-73,R62,R66 | Bellcore Issue 6 | Level I | | 0.002268 | 9.00 | .1670 | 0.020409 | 440974090.03 |
| 105A722003 | Resistor | R268-269 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 105A556003 | Resistor | R65 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A768003 | Resistor | R68 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A715003 | Resistor | R346-347,R70-71,R78 | Bellcore Issue 6 | Level I | | 0.002268 | 5.00 | .0928 | 0.011339 | 440974090.03 |
| 105A701003 | Resistor | R105,R130,R135,R148,R163-164,-R291,R293,R343,R98-99 | Bellcore Issue 6 | Level I | | 0.002268 | 11.00 | .2041 | 0.024945 | 440974090.03 |
| 105A504763 | Resistor | R102-103 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 105A549913 | Resistor | R104 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A705623 | Resistor | R107,R110,R219,R224,R304 | Bellcore Issue 6 | Level I | | 0.002268 | 5.00 | .0928 | 0.011339 | 440974090.03 |
| 105A571533 | Resistor | R108 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A528713 | Resistor | R109 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A707523 | Resistor | R111 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1059518701 | Resistor | R112 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 1059511501 | Resistor | R113 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A756033 | Resistor | R116-117 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 1059512401 | Resistor | R119-119,R121 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 1059524961 | Resistor | R120 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A710053 | Resistor | R129 | Bellcore Issue 6 | Level I | | 0.013606 | 1.00 | .1114 | 0.013606 | 73495681.67 |
| 1059502831 | Resistor | R147 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A521033 | Resistor | R150 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A590923 | Resistor | R151 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A560423 | Resistor | R154-155 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 105A704703 | Resistor | R176-177,R183-184,R186 | Bellcore Issue 6 | Level I | | 0.002268 | 5.00 | .0928 | 0.011339 | 440974090.03 |
| 105A501723 | Resistor | R198 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A751033 | Resistor | R200-201,R204,R23 | Bellcore Issue 6 | Level I | | 0.002268 | 4.00 | .0742 | 0.009071 | 440974090.03 |
| 105A505103 | Resistor | R100,R208-211,R253-254,R256,-R259,R67 | Bellcore Issue 6 | Level I | | 0.002268 | 10.00 | .1856 | 0.022677 | 440974090.03 |
| 105A747003 | Resistor | R223 | Bellcore Issue 6 | Level I | | 0.002268 | 1.00 | .0186 | 0.002268 | 440974090.03 |
| 105A705033 | Resistor | R297,R301,R337 | Bellcore Issue 6 | Level I | | 0.002268 | 3.00 | .0557 | 0.006803 | 440974090.03 |
| 105A702223 | Resistor | R307,R344 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |

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Temperature 25.00



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Time 1:34 PM
Failure Rate 12.219121
MTBF 81,839

| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|--------------------|---------------|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|--------------|
| 1059511001 | Resistor | R349-350 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 1149633190 | Capacitor | TC11-13 | Bellcore Issue 6 | Level I | | 0.004933 | 3.00 | .1211 | 0.014799 | 202722669.92 |
| 14S4237120 | Integrated Circuit | U1 | Bellcore Issue 6 | Level I | 12.00 | 0.077420 | 1.00 | .6336 | 0.077420 | 12916624.12 |
| 14S5801400 | Integrated Circuit | U2 | Bellcore Issue 6 | Level I | 3.00 | 0.045117 | 1.00 | .3692 | 0.045117 | 22164547.86 |
| 14S5900700 | Integrated Circuit | U3 | Bellcore Issue 6 | Level I | 13.00 | 0.115258 | 1.00 | .9433 | 0.115258 | 8676209.89 |
| 14S5500800 | Integrated Circuit | U4 | Bellcore Issue 6 | Level I | 7.00 | 0.088777 | 1.00 | .7265 | 0.088777 | 11264182.63 |
| 14S4070600 | Integrated Circuit | U5 | Bellcore Issue 6 | Level I | 7.00 | 0.097911 | 1.00 | .8013 | 0.097911 | 10213356.27 |
| 14S5207402 | Integrated Circuit | U6 | Bellcore Issue 6 | Level I | 3.00 | 0.075610 | 1.00 | .6188 | 0.075610 | 13225687.84 |
| 14S5501400 | Integrated Circuit | U9 | Bellcore Issue 6 | Level I | 15.00 | 0.125285 | 1.00 | 1.0253 | 0.125285 | 7981782.34 |
| 14S4244300 | Integrated Circuit | U10 | Bellcore Issue 6 | Level I | 20.00 | 0.118260 | 1.00 | .9678 | 0.118260 | 8455912.86 |
| 14S4900000 | Integrated Circuit | U12 | Bellcore Issue 6 | Level I | 20.00 | 0.118260 | 1.00 | .9678 | 0.118260 | 8455912.86 |
| 14S5512500 | Integrated Circuit | U13 | Bellcore Issue 6 | Level I | 9.00 | 0.096820 | 1.00 | .7924 | 0.096820 | 10328441.13 |
| 14S3155300 | Integrated Circuit | U15 | Bellcore Issue 6 | Level I | 15.00 | 0.168759 | 1.00 | 1.3811 | 0.168759 | 5925622.25 |
| 14S9055500 | Integrated Circuit | u16 | Bellcore Issue 6 | Level I | 7.00 | 0.069574 | 1.00 | .5694 | 0.069574 | 14373251.85 |
| 14S4021303 | Integrated Circuit | U17-18,U34-35 | Bellcore Issue 6 | Level I | 8.00 | 0.104969 | 4.00 | 3.4362 | 0.419877 | 9526603.44 |
| 14S4397703 | Integrated Circuit | U19 | Bellcore Issue 6 | Level I | 11.00 | 0.073313 | 1.00 | .6000 | 0.073313 | 13640096.66 |
| 14S4378100 | Integrated Circuit | U22 | Bellcore Issue 6 | Level I | 17.00 | 0.192530 | 1.00 | 1.5756 | 0.192530 | 5193998.23 |
| 14S3924800 | Integrated Circuit | U25 | Bellcore Issue 6 | Level I | 17.00 | 0.192530 | 1.00 | 1.5756 | 0.192530 | 5193998.23 |
| 14S4813902 | Integrated Circuit | U26 | Bellcore Issue 6 | Level I | 14.00 | 0.086245 | 1.00 | .7058 | 0.086245 | 11594908.63 |
| 14S6334600 | Integrated Circuit | U27 | Bellcore Issue 6 | Level I | 10.00 | 0.120485 | 1.00 | .9860 | 0.120485 | 8299772.79 |
| 14S3200400 | Integrated Circuit | U28 | Bellcore Issue 6 | Level I | 13.00 | 0.147672 | 1.00 | 1.2085 | 0.147672 | 6771770.53 |
| 14S4866100 | Integrated Circuit | U29 | Bellcore Issue 6 | Level I | 9.00 | 0.065672 | 1.00 | .5375 | 0.065672 | 15227088.64 |
| 14S4048500 | Integrated Circuit | U20-21,U30-33 | Bellcore Issue 6 | Level I | 9.00 | 0.112485 | 6.00 | 5.5234 | 0.674911 | 8890058.82 |
| 14S4911216 | Integrated Circuit | U36 | Bellcore Issue 6 | Level I | 16.00 | 0.180291 | 1.00 | 1.4755 | 0.180291 | 5546598.71 |
| 14S4881000 | Integrated Circuit | U37 | Bellcore Issue 6 | Level I | 18.00 | 0.205515 | 1.00 | 1.6819 | 0.205515 | 4865835.10 |
| 1315995610 | Semiconductor | U40 | Bellcore Issue 6 | Level I | 7.00 | 0.193788 | 1.00 | 1.5859 | 0.193788 | 5160285.71 |
| 14S3181900 | Integrated Circuit | U41 | Bellcore Issue 6 | Level I | 3.00 | 0.147672 | 1.00 | 1.2085 | 0.147672 | 6771770.53 |
| 1315995310 | Semiconductor | U43 | Bellcore Issue 6 | Level I | 11.00 | 0.215958 | 1.00 | 1.7674 | 0.215958 | 4630523.11 |
| 1233350050 | Miscellaneous | Y5 | Bellcore Issue 6 | Level I | | 0.150000 | 1.00 | 1.2276 | 0.150000 | 6666666.67 |
| 1233349160 | Miscellaneous | Y7 | Bellcore Issue 6 | Level I | | 0.150000 | 1.00 | 1.2276 | 0.150000 | 6666666.67 |
| 1653007204 | Connection | CN28 | Bellcore Issue 6 | Level I | | 0.007966 | 1.00 | .0652 | 0.007966 | 125540038.67 |

AAEON Reliability Prediction Report

Part Number 9697668080
Reference Des
Date 11. 29, 2001
Environment GF, GU - Ground Fixed, Uncontrolled
Temperature 25.00



Description CPU Board
File Name TBOX-3303.RPJ
Time 1:34 PM
Failure Rate 12.219121
MTBF 81,839

| Part Number | Category | Location | Calculation Model | Quality | Tem. Rise | Failure Rate, Unit | Quantity | Failure Rate, % | Failure Rate | MTBF, Unit |
|-------------|--------------------|-------------------------------|-------------------|---------|-----------|--------------------|----------|-----------------|--------------|--------------|
| 1651204493 | Connection | U14_SKT | Bellcore Issue 6 | Level I | | 0.025035 | 1.00 | .2049 | 0.025035 | 39944557.76 |
| 1651203291 | Connection | U8_SKT | Bellcore Issue 6 | Level I | | 0.018207 | 1.00 | .1490 | 0.018207 | 54923766.92 |
| 1059503001 | Resistor | R179,R185 | Bellcore Issue 6 | Level I | | 0.002268 | 2.00 | .0371 | 0.004535 | 440974090.03 |
| 14S5A24540 | Integrated Circuit | U7 | Bellcore Issue 6 | Level I | 6.00 | 0.091286 | 1.00 | .7471 | 0.091286 | 10954631.16 |
| 1750220320 | Connection | BT1 | Bellcore Issue 6 | Level I | | 0.001138 | 1.00 | .0093 | 0.001138 | 878780270.71 |
| 1750119011 | Miscellaneous | BT1 | Bellcore Issue 6 | Level I | | 0.900000 | 1.00 | 7.3655 | 0.900000 | 1111111.11 |
| 1759100002 | Miscellaneous | BZ1 | Bellcore Issue 6 | Level I | | 0.150000 | 1.00 | 1.2276 | 0.150000 | 6666666.67 |
| 1655420020 | Connection | CN2 | Bellcore Issue 6 | Level I | | 0.011379 | 1.00 | .0931 | 0.011379 | 87878027.07 |
| 1653205200 | Connection | CN5 | Bellcore Issue 6 | Level I | | 0.005690 | 1.00 | .0466 | 0.005690 | 175756054.14 |
| 1654808300 | Connection | CN6 | Bellcore Issue 6 | Level I | | 0.005690 | 1.00 | .0466 | 0.005690 | 175756054.14 |
| 1653217202 | Connection | CN7 | Bellcore Issue 6 | Level I | | 0.019345 | 1.00 | .1583 | 0.019345 | 51692957.10 |
| 1653006100 | Connection | CN8,JP16 | Bellcore Issue 6 | Level I | | 0.003414 | 2.00 | .0559 | 0.006828 | 292926756.90 |
| 1654922600 | Connection | CN9 | Bellcore Issue 6 | Level I | | 0.014793 | 1.00 | .1211 | 0.014793 | 67598482.36 |
| 1654449501 | Connection | CN10 | Bellcore Issue 6 | Level I | | 0.015931 | 1.00 | .1304 | 0.015931 | 62770019.34 |
| 1654612300 | Connection | CN11 | Bellcore Issue 6 | Level I | | 0.006828 | 1.00 | .0559 | 0.006828 | 146463378.45 |
| 1653225200 | Connection | CN12 | Bellcore Issue 6 | Level I | | 0.028449 | 1.00 | .2328 | 0.028449 | 35151210.83 |
| 1653003100 | Connection | JP1,JP6-7 | Bellcore Issue 6 | Level I | | 0.001707 | 3.00 | .0419 | 0.005121 | 585853513.81 |
| 1655003000 | Connection | CN13,CN24 | Bellcore Issue 6 | Level I | | 0.001707 | 2.00 | .0279 | 0.003414 | 585853513.81 |
| 1652508202 | Connection | CN14 | Bellcore Issue 6 | Level I | | 0.004552 | 1.00 | .0373 | 0.004552 | 219695067.68 |
| 1653222200 | Connection | CN15-16 | Bellcore Issue 6 | Level I | | 0.025035 | 2.00 | .4098 | 0.050069 | 39944557.76 |
| 1653220203 | Connection | CN17 | Bellcore Issue 6 | Level I | | 0.022759 | 1.00 | .1863 | 0.022759 | 43939013.54 |
| 1654418500 | Connection | CN20 | Bellcore Issue 6 | Level I | | 0.005121 | 1.00 | .0419 | 0.005121 | 195284504.60 |
| 1654409001 | Connection | CN19 | Bellcore Issue 6 | Level I | | 0.005121 | 1.00 | .0419 | 0.005121 | 195284504.60 |
| 1653013200 | Connection | CN21 | Bellcore Issue 6 | Level I | | 0.014793 | 1.00 | .1211 | 0.014793 | 67598482.36 |
| 1654630200 | Connection | CN23 | Bellcore Issue 6 | Level I | | 0.017069 | 1.00 | .1397 | 0.017069 | 58585351.38 |
| 1655305020 | Connection | CN25 | Bellcore Issue 6 | Level I | | 0.002845 | 1.00 | .0233 | 0.002845 | 351512108.28 |
| 1655306020 | Connection | CN26-27 | Bellcore Issue 6 | Level I | | 0.003414 | 2.00 | .0559 | 0.006828 | 292926756.90 |
| 1651607920 | Connection | CPU1 | Bellcore Issue 6 | Level I | | 0.210519 | 1.00 | 1.7229 | 0.210519 | 4750163.63 |
| 1189622110 | Capacitor | C236 | Bellcore Issue 6 | Level I | | 0.042673 | 1.00 | .3492 | 0.042673 | 23434140.55 |
| 1119610293 | Capacitor | C53-54 | Bellcore Issue 6 | Level I | | 0.071121 | 2.00 | 1.1641 | 0.142243 | 14060484.33 |
| 1119610291 | Capacitor | C371-373,C56-57,C59-60,C65-66 | Bellcore Issue 6 | Level I | | 0.075338 | 9.00 | 5.5490 | 0.678044 | 13273483.15 |

