

# AHP-2176

## Reliability Prediction Report

### (MTBF)

|         |  |
|---------|--|
| Summary | Failure Rate: 8.540231 ppm<br>MTBF: 117093 Hours |
|---------|--|

|            |          |               |
|------------|----------|---------------|
| Issue date | Approval | Test Engineer |
| 2012/11/20 | Tom Lin  | Anderson Lin  |

# Reliability Prediction (MTBF)

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**I . Model Name:** AHP-2176HTT-A2-1010

**II . Prediction Date:** Nov. 20, 2012

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

**IV . Predicted by:** Anderson Lin

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

## **VI. Simulation Environment:**

- Temperature: 25 degrees C
- Standard: Telcordia (Bellcore) Standard

## **VII. Term and Definition:**

- Unit : An assembly of device.
- Duty Cycle : Used in 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 in 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:**

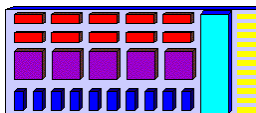
AHP-2176HTT-A2-1010:

- Failure Rate: 8.540231ppm

- MTBF: 117093 Hours

### Standard Reliability Prediction Report

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign,  
**Temperature** 25.00

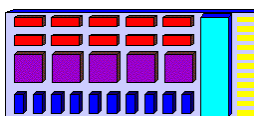


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Assembly Name | Part Number | Ref Des | Qty  | Failure Rate | MTBF    |
|---------------|-------------|---------|------|--------------|---------|
| System        | AHP-2176    |         | 1.00 | 8.540231     | 117,093 |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

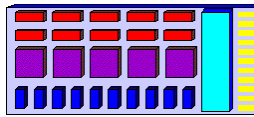


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number   | Category | Ref Des  | Failure Rate, Unit | Quantity | Failure Rate |
|---------------|----------|--|--------------------|----------|--------------|
| '9697QM673A-S | Other    |  | 0.000000           | 1.00     | 0.000000     |
| '1907QM6733   | Other    | PCB1   | 0.000000           | 1.00     | 0.000000     |
| '1050501004   | Resistor | R30,R31  | 0.001134           | 2.00     | 0.002268     |
| '1050501234   | Resistor | R737,R758,R759   | 0.001134           | 3.00     | 0.003402     |
| '1050502204   | Resistor | R317   | 0.001134           | 1.00     | 0.001134     |
| '1050502224   | Resistor | R585,R587  | 0.001134           | 2.00     | 0.002268     |
| '1050504724   | Resistor | R1124,R1126,R1-129,<br>R1147,R1149,R1-156,<br>R1158,R1159,R3-14,<br>R318,R337,R372,<br>R373,R393,R430,<br>R446,R449,R994   | 0.001134           | 18.00    | 0.020409     |
| '1050505164   | Resistor | R772   | 0.001134           | 1.00     | 0.001134     |
| '1050505604   | Resistor | R3,R801  | 0.001134           | 2.00     | 0.002268     |
| '1050505633   | Resistor | R658   | 0.001134           | 1.00     | 0.001134     |
| '1050507530   | Resistor | R774,R775,R783   | 0.001134           | 3.00     | 0.003402     |
| '1050510034   | Resistor | R1075,R1080,R1-089,<br>R1092,R1096,R1-098,<br>R1127,R213,R214-<br>,<br>R216,R217,R242,<br>R283,R286,R604,<br>R646,R669,R760,<br>R897,R899,R905-<br>,R92,<br>R921,R987,R988 | 0.001134           | 25.00    | 0.028346     |
| '1050514324   | Resistor | R735,R914  | 0.001134           | 2.00     | 0.002268     |
| '1050520004   | Resistor | R6   | 0.001134           | 1.00     | 0.001134     |
| '1050520034   | Resistor | R257,R784  | 0.001134           | 2.00     | 0.002268     |
| '1050524904   | Resistor | R1,R16   | 0.001134           | 2.00     | 0.002268     |
| '1050524934   | Resistor | R739   | 0.001134           | 1.00     | 0.001134     |
| '1050527424   | Resistor | R805,R814  | 0.001134           | 2.00     | 0.002268     |
| '105A516933   | Resistor | R792   | 0.001134           | 1.00     | 0.001134     |
| '1050533034   | Resistor | R177,R87   | 0.001134           | 2.00     | 0.002268     |
| '1050533214   | Resistor | R666   | 0.001134           | 1.00     | 0.001134     |
| '1050536514   | Resistor | R847,R848,R861,<br>R870  | 0.001134           | 4.00     | 0.004535     |
| '1050538314   | Resistor | R804,R813  | 0.001134           | 2.00     | 0.002268     |
| '105A535713   | Resistor | R752,R754  | 0.001134           | 2.00     | 0.002268     |
| '105A503423   | Other    | R823   | 0.000000           | 1.00     | 0.000000     |
| '1050540224   | Resistor | R664,R667  | 0.001134           | 2.00     | 0.002268     |
| '1050547004   | Resistor | R1010,R1014,R1-018,<br>R1022   | 0.001134           | 4.00     | 0.004535     |
| '1050548714   | Resistor | R785   | 0.001134           | 1.00     | 0.001134     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

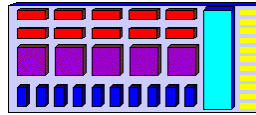


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|---|--------------------|----------|--------------|
| '1050549904 | Resistor  | R789,R812,R820,<br>R827   | 0.001134           | 4.00     | 0.004535     |
| '1050502234 | Resistor  | R81,R84   | 0.001134           | 2.00     | 0.002268     |
| '1050584514 | Resistor  | R734,R736   | 0.001134           | 2.00     | 0.002268     |
| '1050700002 | Resistor  | R293  | 0.001134           | 1.00     | 0.001134     |
| '1050702734 | Resistor  | R471,R505   | 0.001134           | 2.00     | 0.002268     |
| '1050704304 | Resistor  | R21,R36   | 0.001134           | 2.00     | 0.002268     |
| '1050747012 | Other     | R1011,R1015,R1-<br>019, R1023   | 0.000000           | 4.00     | 0.000000     |
| '1050756004 | Other     | R1138,R1139,R1-<br>140, R1141   | 0.000000           | 4.00     | 0.000000     |
| '1052500171 | Resistor  | R39   | 0.001134           | 1.00     | 0.001134     |
| '1053502579 | Other     | R1101,R1102   | 0.000000           | 2.00     | 0.000000     |
| '1054700289 | Resistor  | R1068,R70,R78   | 0.001134           | 3.00     | 0.003402     |
| '1059700001 | Resistor  | R1036,R1067,R4-<br>04, R410   | 0.001134           | 4.00     | 0.004535     |
| '1059700201 | Other     | R1090   | 0.000000           | 1.00     | 0.000000     |
| '1124547190 | Capacitor | C444  | 0.002268           | 1.00     | 0.002268     |
| '1059702261 | Resistor  | R836,R838,R857,<br>R866,R878  | 0.001134           | 5.00     | 0.005669     |
| '105A500133 | Resistor  | R303,R308   | 0.001134           | 2.00     | 0.002268     |
| '105A500139 | Resistor  | R1047,R1083,R1-<br>145,<br>R126,R15,R169,-<br>R18,<br>R218,R24,R26,R-<br>261,<br>R280,R284,R383,<br><br>R398,R413,R42,-<br>R46,<br>R48,R49,R52,R55-<br>,<br>R57,R59,R60,R61-<br>,<br>R63,R678,R729,-<br>R730,<br>R732,R733,R83,-<br>R887,<br>R906,R912,R95,-<br>R99 | 0.001134           | 38.00    | 0.043086     |
| '105A500239 | Resistor  | R1151   | 0.001134           | 1.00     | 0.001134     |

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**Temperature** 25.00

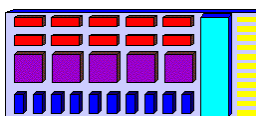


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|----------|---|--------------------|----------|--------------|
| '105A501039 | Resistor | R1009,R1013,R1-017,<br>R1021,R104,R105-<br>,<br>R1059,R1087,R1-095,<br>R1131,R1132,R1-133,<br>R1157,R1162,R1-164,<br>R1166,R1167,R1-24,<br>R125,R127,R134,<br><br>R140,R145,R146,<br><br>R147,R149,R151,<br><br>R152,R153,R156,<br><br>R157,R159,R163,<br><br>R167,R168,R175-<br>,R20,<br>R232,R233,R234, | 0.001134           | 87.00    | 0.098645     |
| '105A501053 | Resistor | R1073,R1076,R85   | 0.001134           | 3.00     | 0.003402     |
| '105A501139 | Resistor | R1094,R738,R797-<br>, R822  | 0.001134           | 4.00     | 0.004535     |
| '105A501529 | Resistor | R277  | 0.001134           | 1.00     | 0.001134     |
| '105A501533 | Resistor | R399  | 0.001134           | 1.00     | 0.001134     |
| '105A501539 | Resistor | R1077,R896  | 0.001134           | 2.00     | 0.002268     |
| '105A502033 | Resistor | R310,R313,R659  | 0.001134           | 3.00     | 0.003402     |
| '105A502039 | Resistor | R1079,R1146,R1-148,<br>R1150,R677,R756-<br>, R892   | 0.001134           | 7.00     | 0.007937     |
| '105A503033 | Resistor | R656  | 0.001134           | 1.00     | 0.001134     |
| '105A503039 | Resistor | R673,R676,R682  | 0.001134           | 3.00     | 0.003402     |
| '105A503309 | Resistor | R109,R114,R244,<br><br>R245,R246,R96,-<br>R98   | 0.001134           | 7.00     | 0.007937     |
| '105A503333 | Resistor | R699  | 0.001134           | 1.00     | 0.001134     |
| '105A505109 | Resistor | R11,R12,R13,R8,-<br>R9  | 0.001134           | 5.00     | 0.005669     |
| '105A505123 | Resistor | R311  | 0.001134           | 1.00     | 0.001134     |
| '105A507503 | Other    | R319,R320,R321,<br>R322,R323,R324   | 0.000000           | 6.00     | 0.000000     |
| '105A507509 | Resistor | R19,R543,R544,-<br>R545, R802   | 0.001134           | 5.00     | 0.005669     |
| '105A508223 | Other    | R1040   | 0.000000           | 1.00     | 0.000000     |
| '105A509123 | Other    | R1103   | 0.000000           | 1.00     | 0.000000     |
| '105A510009 | Resistor | R299  | 0.001134           | 1.00     | 0.001134     |
| '105A510213 | Resistor | R750,R753   | 0.001134           | 2.00     | 0.002268     |

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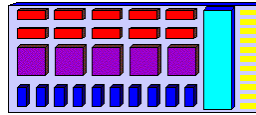
**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category      | Ref Des  | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|---------------|--|--------------------|----------|--------------|
| '105A511823 | Resistor      | R895   | 0.001134           | 1.00     | 0.001134     |
| '105A512039 | Resistor      | R1069,R1074  | 0.001134           | 2.00     | 0.002268     |
| '105A513009 | Resistor      | R23,R35,R803   | 0.001134           | 3.00     | 0.003402     |
| '105A514009 | Resistor      | R4   | 0.001134           | 1.00     | 0.001134     |
| '105A515009 | Resistor      | R210,R211,R212,<br>R540,R541,R542  | 0.001134           | 6.00     | 0.006803     |
| '105A515433 | Resistor      | R1093  | 0.001134           | 1.00     | 0.001134     |
| '105A518223 | Resistor      | R691   | 0.001134           | 1.00     | 0.001134     |
| '105A522123 | Other         | R686   | 0.000000           | 1.00     | 0.000000     |
| '105A522663 | Resistor      | R241   | 0.001134           | 1.00     | 0.001134     |
| '105A523713 | Resistor      | R1100,R205   | 0.001134           | 2.00     | 0.002268     |
| '105A524913 | Resistor      | R394   | 0.001134           | 1.00     | 0.001134     |
| '105A525563 | Resistor      | R5   | 0.001134           | 1.00     | 0.001134     |
| '105A526114 | Resistor      | R799,R818  | 0.001134           | 2.00     | 0.002268     |
| '105A533213 | Other         | R384   | 0.000000           | 1.00     | 0.000000     |
| '105A532429 | Other         | R916   | 0.000000           | 1.00     | 0.000000     |
| '105A507523 | Resistor      | R700,R704  | 0.001134           | 2.00     | 0.002268     |
| '105A536523 | Other         | R698   | 0.000000           | 1.00     | 0.000000     |
| '105A537463 | Resistor      | R103   | 0.001134           | 1.00     | 0.001134     |
| '105A549919 | Resistor      | R1072,R29,R911   | 0.001134           | 3.00     | 0.003402     |
| '105A549923 | Resistor      | R910   | 0.001134           | 1.00     | 0.001134     |
| '105A549963 | Resistor      | R106   | 0.001134           | 1.00     | 0.001134     |
| '105A549969 | Resistor      | R174   | 0.001134           | 1.00     | 0.001134     |
| '105A539003 | Other         | R272   | 0.000000           | 1.00     | 0.000000     |
| '105A539203 | Other         | R795   | 0.000000           | 1.00     | 0.000000     |
| '105A502823 | Resistor      | R790   | 0.001134           | 1.00     | 0.001134     |
| '105A556213 | Resistor      | R695,R701  | 0.001134           | 2.00     | 0.002268     |
| '105A566519 | Resistor      | R755,R757  | 0.001134           | 2.00     | 0.002268     |
| '105A571513 | Resistor      | R696   | 0.001134           | 1.00     | 0.001134     |
| '105A575003 | Resistor      | R693   | 0.001134           | 1.00     | 0.001134     |
| '105A575009 | Resistor      | R1051,R1054,R1-<br>10, R176  | 0.001134           | 4.00     | 0.004535     |
| '1315889612 | Semiconductor | Q101,Q99   | 0.039802           | 2.00     | 0.079603     |
| '1050557614 | Other         | R821   | 0.000000           | 1.00     | 0.000000     |
| '105A590963 | Other         | R165   | 0.000000           | 1.00     | 0.000000     |
| '105A700003 | Resistor      | R291,R309,R315,<br>R385,R386,R389,<br>R392,R406,R407,<br>R414,R415,R417,<br>R420,R453,R454,<br>R459,R589,R708,<br>R709,R778,R807 | 0.001134           | 21.00    | 0.023811     |



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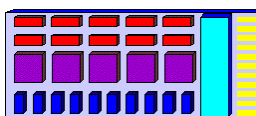


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|----------|---|--------------------|----------|--------------|
| '105A700009 | Resistor | R10,R1004,R1005-<br>,<br>R1006,R1007,R1-<br>02,<br>R1055,R1097,R1-<br>099,<br>R111,R1120,R11-<br>21,<br>R113,R1136,R11-<br>44,<br>R1152,R1153,R1-<br>154,<br>R1155,R1160,R1-<br>161,<br>R119,R120,R123,<br><br>R136,R137,R138,<br><br>R139,R14,R141,-<br>R142,<br>R143,R144,R148,<br><br>R150,R154,R155,<br><br>R158,R160,R166,<br>R809 | 0.001134           | 191.00   | 0.216566     |
| '105A700109 | Resistor | R809  | 0.001134           | 1.00     | 0.001134     |
| '105A700139 | Resistor | R1050,R1062,R1-<br>064,<br>R1066,R356,R886-<br>, R891   | 0.001134           | 7.00     | 0.007937     |
| '105A700239 | Resistor | R787,R873   | 0.001134           | 2.00     | 0.002268     |
| '105A701003 | Resistor | R687,R690,R714  | 0.001134           | 3.00     | 0.003402     |
| '105A701009 | Resistor | R1070,R1071,R1-<br>088,<br>R1091,R289,R292-<br>,<br>R724,R746,R788,<br><br>R793,R825,R830,<br><br>R849,R850,R862,<br>R871   | 0.001134           | 16.00    | 0.018142     |
| '105A701033 | Resistor | R312,R644,R645,<br>R685,R692,R713   | 0.001134           | 6.00     | 0.006803     |
| '105A701039 | Resistor | R1057,R1061,R1-<br>063,<br>R1065,R161,R408-<br>,<br>R409,R412,R481,<br><br>R482,R546,R566,<br><br>R625,R626,R627,<br><br>R630,R631,R632,<br>R744  | 0.001134           | 19.00    | 0.021543     |

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**Date** 十一月 20, 2012  
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**Temperature** 25.00

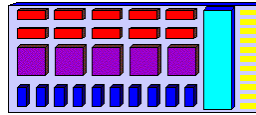


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|----------|---|--------------------|----------|--------------|
| '105A701053 | Resistor | R164  | 0.001134           | 1.00     | 0.001134     |
| '105A701069 | Resistor | R82   | 0.006803           | 1.00     | 0.006803     |
| '1050519114 | Other    | R798,R816   | 0.000000           | 2.00     | 0.000000     |
| '105A701539 | Other    | R193,R670,R679  | 0.000000           | 3.00     | 0.000000     |
| '105A702039 | Resistor | R663  | 0.001134           | 1.00     | 0.001134     |
| '105A702053 | Resistor | R301  | 0.006803           | 1.00     | 0.006803     |
| '105A702209 | Resistor | R536,R537,R538,<br>R539   | 0.001134           | 4.00     | 0.004535     |
| '105A702229 | Resistor | R121,R122,R128,<br><br>R129,R130,R131,<br><br>R132,R133,R197,<br><br>R198,R199,R200,<br><br>R201,R202,R203,<br><br>R204,R208,R209,<br><br>R275,R325,R326,<br><br>R344,R345,R464,<br><br>R496,R547,R548,<br>R567,R568,R602 | 0.001134           | 30.00    | 0.034016     |
| '105A702233 | Other    | R329,R330   | 0.000000           | 2.00     | 0.000000     |
| '105A702263 | Resistor | R688,R689,R707,<br>R710,R711,R712   | 0.001134           | 6.00     | 0.006803     |
| '105A703329 | Resistor | R468,R502   | 0.001134           | 2.00     | 0.002268     |
| '105A704729 | Resistor | R1000,R1037,R1-<br>048,<br>R1049,R1060,R1-<br>081,<br>R1082,R1084,R1-<br>085,<br>R1086,R333,R334-<br>,<br>R433,R485,R551,<br><br>R576,R579,R580,<br><br>R586,R702,R705,<br>R990   | 0.001134           | 22.00    | 0.024945     |
| '105A704739 | Resistor | R251,R252   | 0.001134           | 2.00     | 0.002268     |
| '105A705129 | Resistor | R1165,R463,R466-<br>,<br>R494,R498,R769   | 0.001134           | 6.00     | 0.006803     |
| '105A705139 | Resistor | R527,R528,R529,<br><br>R530,R531,R532,<br>R533  | 0.001134           | 7.00     | 0.007937     |
| '105A706209 | Resistor | R17,R395,R483   | 0.001134           | 3.00     | 0.003402     |
| '105A706823 | Other    | R534,R535   | 0.000000           | 2.00     | 0.000000     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

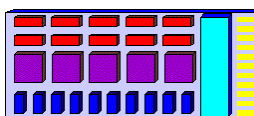


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|---|--------------------|----------|--------------|
| '105A708229 | Resistor  | R170,R171,R182,<br>R219,R220,R221,<br>R222,R223,R224,<br>R225,R226,R227,<br>R228,R229,R230,<br>R236,R237,R238,<br>R354,R478,R86 | 0.001134           | 21.00    | 0.023811     |
| '105A710009 | Resistor  | R41,R465,R47,R-<br>503  | 0.001134           | 4.00     | 0.004535     |
| '105A710039 | Resistor  | R1163,R457,R458-<br>,<br>R680,R725,R740,<br>R741,R742,R747,<br>R773,R779,R883,<br>R884,R885,R888,<br>R889,R893                  | 0.001134           | 17.00    | 0.019276     |
| '105A715003 | Resistor  | R391,R419   | 0.001134           | 2.00     | 0.002268     |
| '105A720009 | Resistor  | R179,R22  | 0.001134           | 2.00     | 0.002268     |
| '105A727033 | Other     | R791,R824   | 0.000000           | 2.00     | 0.000000     |
| '105A733003 | Resistor  | R298,R306,R307,<br>R989,R991  | 0.001134           | 5.00     | 0.005669     |
| '105A733009 | Resistor  | R117  | 0.001134           | 1.00     | 0.001134     |
| '105A747003 | Resistor  | R1052,R1058   | 0.001134           | 2.00     | 0.002268     |
| '106B701031 | Other     | RT1,RT2,RT3,RT6   | 0.000000           | 4.00     | 0.000000     |
| '106B747030 | Resistor  | RT4,RT5   | 0.005690           | 2.00     | 0.011379     |
| '1121501680 | Capacitor | BC27,BC28   | 0.002733           | 2.00     | 0.005466     |

### Standard Reliability Prediction Report

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

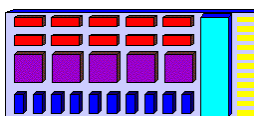


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|---|--------------------|----------|--------------|
| '1121501690 | Capacitor | BC10,BC100,BC1-01, BC102,BC103,BC-104, BC105,BC106,BC-107, BC108,BC109,BC-11, BC110,BC111,BC-112, BC113,BC114,BC-115, BC116,BC117,BC-118, BC119,BC12,BC1-20, BC121,BC122,BC-123, BC124,BC125,BC-126, BC127,BC128,BC-129, BC13,BC130,BC1-31, BC132,BC133,BC1 | 0.002268           | 215.00   | 0.487557     |
| '1121501691 | Capacitor | BC1,BC2,BC3,C2, C385,C387,C403, C472,C623,C624, C625,C626,C627, C629,C636   | 0.002268           | 15.00    | 0.034016     |
| '1121610060 | Other     | C607,C612,C614, C618,C620   | 0.000000           | 5.00     | 0.000000     |
| '1121610180 | Capacitor | C225,C226,C227, C228,C229,C230, C630,C631,C632, C633  | 0.002268           | 10.00    | 0.022677     |
| '1121622780 | Other     | C398  | 0.000000           | 1.00     | 0.000000     |
| '1121633180 | Other     | C542  | 0.000000           | 1.00     | 0.000000     |
| '1121647480 | Other     | C448  | 0.000000           | 1.00     | 0.000000     |
| '1121701080 | Capacitor | BC146,BC62,C20-2, C207,C215,C260, C274,C367,C377  | 0.002268           | 9.00     | 0.020409     |
| '1121747890 | Capacitor | C3  | 0.002268           | 1.00     | 0.002268     |
| '1122522890 | Capacitor | C382,C410,C415, C450  | 0.002268           | 4.00     | 0.009071     |
| '1122601680 | Capacitor | BC24,BC25   | 0.002268           | 2.00     | 0.004535     |
| '1124410190 | Capacitor | C606,C617   | 0.002268           | 2.00     | 0.004535     |
| '1124418090 | Capacitor | C123,C125,C145, C146  | 0.002268           | 4.00     | 0.009071     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

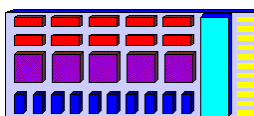


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category           | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|--------------------|---|--------------------|----------|--------------|
| '1124418190 | Capacitor          | C317,C318,C319,<br>C320,C321,C322,<br>C323,C324,C325,<br>C326,C327,C328,<br>C329,C330,C331,<br>C332,C333,C334,<br>C335,C336,C337,<br>C338,C339,C340,<br>C341,C342,C343,<br>C344,C345,C346,<br>C347,C348 | 0.002268           | 32.00    | 0.072567     |
| '1124427090 | Capacitor          | C249,C250,C352,<br>C353,C354,C357,<br>C358,C359,C360  | 0.002268           | 9.00     | 0.020409     |
| '1314880511 | Integrated Circuit | U20   | 0.029683           | 1.00     | 0.029683     |
| '1124433190 | Capacitor          | C429  | 0.002268           | 1.00     | 0.002268     |
| '1124468090 | Capacitor          | C240,C243,C469  | 0.002268           | 3.00     | 0.006803     |
| '1124518280 | Other              | C393  | 0.000000           | 1.00     | 0.000000     |
| '1124522190 | Capacitor          | C378,C379,C380,<br>C381   | 0.002268           | 4.00     | 0.009071     |
| '1121647780 | Capacitor          | C395,C396   | 0.002268           | 2.00     | 0.004535     |
| '1124533190 | Capacitor          | C203  | 0.002268           | 1.00     | 0.002268     |
| '1124582880 | Other              | C437  | 0.000000           | 1.00     | 0.000000     |
| '1129522790 | Capacitor          | C438,C439,C443,<br>C446,C447,C455,<br>C456,C460,C462,<br>C464   | 0.002268           | 10.00    | 0.022677     |
| '1129610051 | Capacitor          | TC20,TC41,TC45,<br>TC46   | 0.002268           | 4.00     | 0.009071     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

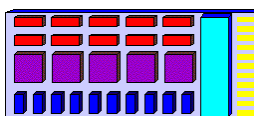


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|---|--------------------|----------|--------------|
| '1129610080 | Capacitor | C102,C103,C107,<br>C108,C109,C110,<br>C111,C112,C121,<br>C122,C153,C173,<br>C217,C245,C265,<br>C266,C278,C281,<br>C365,C543,C544,<br>C547,C548,C88,-<br>C89,<br>C90,C91,C92,C93-<br>,<br>TC11,TC13,TC14,<br>TC15,TC16,TC17,<br>TC18,TC22,TC23,<br>TC24,TC25,TC27, | 0.002268           | 64.00    | 0.145133     |
| '1129647650 | Other     | C251,C252   | 0.000000           | 2.00     | 0.000000     |
| '1129701690 | Capacitor | C550,C557,C558,<br>C559,C560,C561,<br>C562,C568,C569,<br>C570,C571,C572,<br>C573,C574,C576  | 0.002268           | 15.00    | 0.034016     |
| '1129701790 | Capacitor | C152,C159,C160,<br>C205,C253,C283,<br>C284,C285,C286,<br>C287,C288,C289,<br>C290,C291,C292,<br>C293,C294,C295,<br>C296,C297,C298,<br>C299,C300,C301,<br>C302,C419,C434,<br>C610,C619  | 0.002268           | 29.00    | 0.065764     |
| '1129710050 | Other     | TC52  | 0.000000           | 1.00     | 0.000000     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

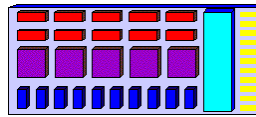


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des         | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|-----------------|--------------------|----------|--------------|
| '1129710090 | Capacitor | C349,C350,C351, | 0.002268           | 7.00     | 0.015874     |
|             |           | C355,C356,C361, |                    |          |              |
|             |           | C362            |                    |          |              |
| '1129710390 | Capacitor | C267,C268,C383, | 0.002268           | 15.00    | 0.034016     |
|             |           | C384,C386,C388, |                    |          |              |
|             |           | C390,C399,C402, |                    |          |              |
|             |           | C430,C457,C458, |                    |          |              |
|             |           | C461,C463,C465  |                    |          |              |
| '1129722091 | Capacitor | C218            | 0.002268           | 1.00     | 0.002268     |
| '1129747090 | Capacitor | C445,C611       | 0.002268           | 2.00     | 0.004535     |
| '1129747091 | Capacitor | C431            | 0.002268           | 1.00     | 0.002268     |
| '1129747650 | Other     | C219,C220,C223, | 0.000000           | 8.00     | 0.000000     |
|             |           | C224,C375,C376, |                    |          |              |
|             |           | C477,C482       |                    |          |              |
| '1174522180 | Capacitor | CP1,CP2,CP3,CP4 | 0.002733           | 4.00     | 0.010931     |
| '1181610180 | Other     | EC10,EC22,EC6   | 0.000000           | 3.00     | 0.000000     |
| '1189610151 | Capacitor | C470            | 0.002268           | 1.00     | 0.002268     |
| '118961018A | Capacitor | C235,EC5,EC9    | 0.002268           | 3.00     | 0.006803     |
| '1189633162 | Capacitor | C408,C409,C414, | 0.002268           | 9.00     | 0.020409     |
|             |           | C427,EC1,EC12,- |                    |          |              |
|             |           | EC2, EC23,EC24  |                    |          |              |
| '1189647180 | Capacitor | EC17,EC18,EC19, | 0.002268           | 7.00     | 0.015874     |
|             |           | EC20,EC21,EC26, |                    |          |              |
|             |           | EC28            |                    |          |              |
| '1189647190 | Other     | EC11,EC7,EC8    | 0.000000           | 3.00     | 0.000000     |
| '11A4410280 | Capacitor | C204            | 0.002268           | 1.00     | 0.002268     |
| '11C1522480 | Capacitor | C397,C436,C615, | 0.002268           | 4.00     | 0.009071     |
|             |           | C616            |                    |          |              |
| '11C1533890 | Capacitor | C476,C480       | 0.002268           | 2.00     | 0.004535     |
| '11C1547890 | Capacitor | C604            | 0.002268           | 1.00     | 0.002268     |
| '11C2501050 | Other     | C392            | 0.000000           | 1.00     | 0.000000     |
| '11C2501790 | Capacitor | C466,C467       | 0.002268           | 2.00     | 0.004535     |
| '11C2510190 | Capacitor | TC42,TC43,TC44  | 0.002268           | 3.00     | 0.006803     |
| '11C2510480 | Capacitor | BC164,BC165,BC- | 0.002268           | 5.00     | 0.011339     |
|             |           | 166, BC46,BC65  |                    |          |              |
| '11C2522650 | Capacitor | TC29,TC30       | 0.002268           | 2.00     | 0.004535     |
| '11C4501650 | Capacitor | C579,C582,C583, | 0.002268           | 7.00     | 0.015874     |
|             |           | C600,C605,C608, |                    |          |              |
|             |           | C621            |                    |          |              |
| '11C4501790 | Capacitor | C453            | 0.002268           | 1.00     | 0.002268     |
| '11C4547690 | Other     | C577,C578,C580, | 0.000000           | 5.00     | 0.000000     |
|             |           | C581,C601       |                    |          |              |
| '11C4515190 | Capacitor | C433,C449       | 0.002268           | 2.00     | 0.004535     |
| '11C5501650 | Other     | C549,C553,C554, | 0.000000           | 5.00     | 0.000000     |
|             |           | C555,C556       |                    |          |              |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00



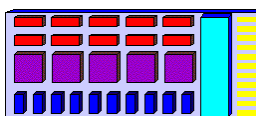
**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category  | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|-----------|---|--------------------|----------|--------------|
| '11C9510050 | Capacitor | C406,C407,C412,<br>C413,TC21,TC40,<br>TC47  | 0.002268           | 7.00     | 0.015874     |
| '11C9510290 | Other     | C244,C254,C551,<br>C575   | 0.000000           | 4.00     | 0.000000     |
| '11E1547090 | Other     | C221,C222   | 0.000000           | 2.00     | 0.000000     |
| '11E1510050 | Capacitor | TC12  | 0.002268           | 1.00     | 0.002268     |
| '11E1522680 | Capacitor | C584  | 0.002268           | 1.00     | 0.002268     |
| '11E2510060 | Capacitor | C622  | 0.002268           | 1.00     | 0.002268     |
| '11E9501090 | Capacitor | C411,C479,C545,<br>C552   | 0.002268           | 4.00     | 0.009071     |
| '11E9501091 | Capacitor | C100,C101,C117,<br>C118,C119,C12,-<br>C120,<br>C124,C126,C127-<br>,C13,<br>C14,C15,C155,C-<br>156,<br>C158,C16,C165,-<br>C166,<br>C168,C169,C17,-<br>C172,<br>C174,C175,C177,<br>C178,C179,C18,-<br>C180,<br>C181,C182,C184,<br>C186,C188,C189,<br>C190,C191,C193,<br>C194,C195,C198,<br>C200,C211,C212,<br>TC1,TC10,TC2,T-<br>C3,<br>TC4,TC5,TC6,TC7-<br>, TC8,TC9 | 0.002268           | 86.00    | 0.195023     |
| '11E9510050 | Capacitor | C200,C211,C212,<br>TC1,TC10,TC2,T-<br>C3,<br>TC4,TC5,TC6,TC7-<br>, TC8,TC9  | 0.002268           | 10.00    | 0.022677     |
| '11E9522680 | Capacitor | C104,C105,C106-<br>,C85, C86,C87  | 0.002268           | 6.00     | 0.013606     |
| '11E9547680 | Capacitor | C208,C209,C210  | 0.002268           | 3.00     | 0.006803     |



**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

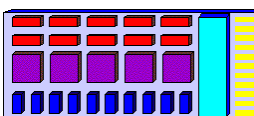


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category      | Ref Des  | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|---------------|--|--------------------|----------|--------------|
| '11E9622050 | Capacitor     | C10,C11,C157,C-161,<br>C176,C183,C19,-<br>C20,<br>C21,C22,C23,C24-<br>,<br>C25,C26,C27,C28-<br>,<br>C29,C30,C31,C32-<br>,<br>C33,C34,C35,C36-<br>,<br>C40,C41,C416,C-417,<br>C42,C420,C425,-<br>C43,<br>C471,C473,C474,<br><br>C475,C478,C59,-<br>C60,<br>C61,C69,C7,C70,-<br>C71,<br>C72,C73,C74,C75-<br>,<br>C76,C77,C78,C79 | 0.002268           | 59.00    | 0.133795     |
| '11E9622080 | Capacitor     | C163,C164,C241   | 0.002268           | 3.00     | 0.006803     |
| '11E9647680 | Capacitor     | C199   | 0.002268           | 1.00     | 0.002268     |
| '1211100113 | Inductor      | L1,L4,L5   | 0.001134           | 3.00     | 0.003402     |
| '1211100160 | Inductor      | L2   | 0.001134           | 1.00     | 0.001134     |
| '121110100F | Inductor      | L6   | 0.043086           | 1.00     | 0.043086     |
| '1211101064 | Other         | L20,L22  | 0.000000           | 2.00     | 0.000000     |
| '121110156A | Inductor      | L21,L23  | 0.043086           | 2.00     | 0.086173     |
| '1211103672 | Other         | L18,L19  | 0.000000           | 2.00     | 0.000000     |
| '1211103671 | Inductor      | L24,L25,L26,L27  | 0.043086           | 4.00     | 0.172346     |
| '1211104760 | Other         | L11  | 0.000000           | 1.00     | 0.000000     |
| '1212306030 | Resistor      | FB25,FB3,FB4,F-<br>B5, FB6   | 0.005690           | 5.00     | 0.028449     |
| '1212306032 | Other         | FB29,FB30,L29,L-<br>30   | 0.000000           | 4.00     | 0.000000     |
| '121230603S | Inductor      | FB15,FB21  | 0.001134           | 2.00     | 0.002268     |
| '121230603Z | Inductor      | FB10,FB11,FB12,<br><br>FB20,FB7,FB8,F-<br>B9   | 0.001134           | 7.00     | 0.007937     |
| '1212308054 | Resistor      | FB14,L13,L14,L15-<br>, L16,L17   | 0.005690           | 6.00     | 0.034138     |
| '121110226U | Other         | L12  | 0.000000           | 1.00     | 0.000000     |
| '12123D0001 | Inductor      | FB22,FB23,FB24   | 0.001134           | 3.00     | 0.003402     |
| '123132505D | Miscellaneous | Y2,Y3,Y4   | 0.075000           | 3.00     | 0.225000     |
| '1231332722 | Miscellaneous | Y1   | 0.075000           | 1.00     | 0.075000     |
| '1233348051 | Other         | OSC1   | 0.000000           | 1.00     | 0.000000     |
| '1301003440 | Semiconductor | D54,D55,D66,D67-<br>, D68,D69,D82  | 0.011940           | 7.00     | 0.083583     |

### Standard Reliability Prediction Report

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

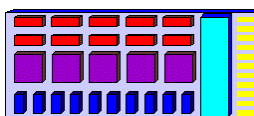


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category           | Ref Des   | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|--------------------|---|--------------------|----------|--------------|
| '1301005440 | Semiconductor      | D43,D44,D48,D52-D8  | 0.011940           | 5.00     | 0.059702     |
| '1301005442 | Semiconductor      | D4,D5,D58,D60,D64, D65,D80  | 0.011940           | 7.00     | 0.083583     |
| '1301005444 | Semiconductor      | D1,D2,D3,D59,D7-6, D77,D78,D79  | 0.011940           | 8.00     | 0.095524     |
| '1301005450 | Other              | D6,D7   | 0.000000           | 2.00     | 0.000000     |
| '1301013041 | Semiconductor      | D71   | 0.011940           | 1.00     | 0.011940     |
| '1300414841 | Other              | D62,D63   | 0.000000           | 2.00     | 0.000000     |
| '1302005641 | Other              | D70   | 0.000000           | 1.00     | 0.000000     |
| '1304001340 | Semiconductor      | D10,LED1,LED2   | 0.002438           | 3.00     | 0.007315     |
| '1305100541 | Semiconductor      | D11,D12,D13,D14-D15,D16,D17,D18-D19,D20,D21,D22-D23,D24,D25,D26-D45,D46,D47,D49-D50,D51,D53 | 0.011940           | 23.00    | 0.274631     |
| '130533CA40 | Other              | D61   | 0.000000           | 1.00     | 0.000000     |
| '1310390410 | Semiconductor      | Q29,Q78,Q8,Q80-Q82,Q87,Q88,Q94,Q97  | 0.011940           | 9.00     | 0.107464     |
| '1310390413 | Semiconductor      | Q93   | 0.011940           | 1.00     | 0.011940     |
| '1311390610 | Semiconductor      | Q89   | 0.011940           | 1.00     | 0.011940     |
| '1311390612 | Semiconductor      | Q90   | 0.011940           | 1.00     | 0.011940     |
| '1314780511 | Integrated Circuit | U49   | 0.029683           | 1.00     | 0.029683     |
| '1314895510 | Integrated Circuit | U63   | 0.029683           | 1.00     | 0.029683     |
| '1315050311 | Integrated Circuit | Q40,Q41,Q45,Q48-Q50,Q52,Q54,Q55-Q60,Q63   | 0.029683           | 10.00    | 0.296830     |
| '1315230511 | Semiconductor      | Q102,Q103,Q27,-Q85, Q86   | 0.039802           | 5.00     | 0.199008     |
| '1315441012 | Semiconductor      | Q76   | 0.039802           | 1.00     | 0.039802     |
| '1315482410 | Semiconductor      | U62,U64,U65,U67   | 0.039802           | 4.00     | 0.159207     |
| '1315567011 | Other              | Q100,Q95,Q96,Q-98   | 0.000000           | 4.00     | 0.000000     |
| '1315667910 | Semiconductor      | U61   | 0.079603           | 1.00     | 0.079603     |
| '1315668510 | Other              | Q70   | 0.000000           | 1.00     | 0.000000     |
| '1315700211 | Semiconductor      | Q20,Q21,Q22,Q23-Q83,Q84   | 0.039802           | 6.00     | 0.238810     |
| '1315700216 | Semiconductor      | Q1,Q104,Q105,Q-47,Q6,Q69,Q7,Q71,-Q72,Q73,Q74,Q75,Q77-Q79,Q81,Q91,Q92                        | 0.039802           | 17.00    | 0.676628     |

**Standard Reliability Prediction Report**

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

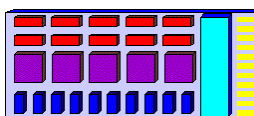


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category           | Ref Des  | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|--------------------|--|--------------------|----------|--------------|
| '1315700217 | Semiconductor      | Q10,Q11,Q12,Q13-<br>,<br>Q14,Q15,Q16,Q17-<br>,<br>Q24,Q25,Q26,Q30                  | 0.039802           | 12.00    | 0.477620     |
| '1315970211 | Semiconductor      | U15,U16,U17,U18-<br>,<br>U19   | 0.079603           | 5.00     | 0.398016     |
| '1315R30310 | Integrated Circuit | Q42,Q43,Q46,Q49-<br>,<br>Q51,Q53,Q56,Q57-<br>,<br>Q58,Q59,Q61,Q62-<br>,<br>Q64,Q65 | 0.029683           | 14.00    | 0.415562     |
| '14S2083600 | Other              | U58  | 0.000000           | 1.00     | 0.000000     |
| '14S2200900 | Integrated Circuit | U26  | 0.029683           | 1.00     | 0.029683     |
| '14S3089200 | Integrated Circuit | U8   | 0.013091           | 1.00     | 0.013091     |
| '14S3111600 | Integrated Circuit | U56  | 0.016000           | 1.00     | 0.016000     |
| '14S3121800 | Integrated Circuit | U57  | 0.029683           | 1.00     | 0.029683     |
| '14S3378000 | Other              | U89  | 0.000000           | 1.00     | 0.000000     |
| '14S3435600 | Other              | U86  | 0.000000           | 1.00     | 0.000000     |
| '14S3520900 | Other              | U90  | 0.000000           | 1.00     | 0.000000     |
| '14S3524700 | Integrated Circuit | Q28  | 0.029683           | 1.00     | 0.029683     |
| '14S3587000 | Integrated Circuit | U54,U55  | 0.029683           | 2.00     | 0.059366     |
| '14S4021301 | Integrated Circuit | U22,U23,U24,U25  | 0.029683           | 4.00     | 0.118732     |
| '14S4186600 | Integrated Circuit | U91  | 0.013091           | 1.00     | 0.013091     |
| '14S4257900 | Integrated Circuit | U12  | 0.013091           | 1.00     | 0.013091     |
| '14S4622800 | Other              | U50  | 0.000000           | 1.00     | 0.000000     |
| '14S4811102 | Integrated Circuit | U13  | 0.013091           | 1.00     | 0.013091     |
| '14S4QM6700 | Other              | U4   | 0.000000           | 1.00     | 0.000000     |
| '14S5908000 | Other              | U48,U7   | 0.000000           | 2.00     | 0.000000     |
| '14S5A00601 | Integrated Circuit | U79  | 0.013091           | 1.00     | 0.013091     |
| '14S5A00702 | Integrated Circuit | U11,U2,U5  | 0.029683           | 3.00     | 0.089049     |
| '14S5A00704 | Integrated Circuit | U3,U41,U47   | 0.013091           | 3.00     | 0.039274     |
| '14S5A00802 | Integrated Circuit | U39,U42,U44,U46  | 0.013091           | 4.00     | 0.052365     |
| '14S5A00821 | Integrated Circuit | U21,U33  | 0.013091           | 2.00     | 0.026183     |
| '14S5A12503 | Integrated Circuit | U78  | 0.013091           | 1.00     | 0.013091     |
| '14S5A12506 | Integrated Circuit | U85  | 0.013091           | 1.00     | 0.013091     |
| '14S6334607 | Integrated Circuit | U14  | 0.011471           | 1.00     | 0.011471     |
| '14S9108500 | Integrated Circuit | U38,U40,U43,U45  | 0.029683           | 4.00     | 0.118732     |
| '14S9341101 | Integrated Circuit | U30  | 0.013091           | 1.00     | 0.013091     |
| '14S9620800 | Integrated Circuit | U59  | 0.013091           | 1.00     | 0.013091     |
| '1540733085 | Resistor           | RP5,RP6,RP7,RP-<br>8, RP9  | 0.003123           | 5.00     | 0.015615     |
| '1651900860 | Integrated Circuit | U9   | 0.029683           | 1.00     | 0.029683     |
| '165300420L | Connection         | CN3  | 0.002276           | 1.00     | 0.002276     |
| '1653005209 | Other              | CN1  | 0.000000           | 1.00     | 0.000000     |
| '1653212100 | Connection         | CN9  | 0.003414           | 1.00     | 0.003414     |
| '1653924110 | Connection         | CN8  | 0.000569           | 1.00     | 0.000569     |
| '1654030003 | Connection         | CN17   | 0.008535           | 1.00     | 0.008535     |
| '1654903900 | Other              | SIM1   | 0.000000           | 1.00     | 0.000000     |
| '1752000501 | Other              | FS8,FS9  | 0.000000           | 2.00     | 0.000000     |

### Standard Reliability Prediction Report

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00

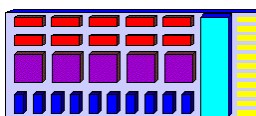


**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category           | Ref Des  | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|--------------------|--|--------------------|----------|--------------|
| '1752001603 | Other              | FS3,FS4,FS5,FS6-<br>FS7  | 0.000000           | 5.00     | 0.000000     |
| '1752001900 | Other              | F1,F2  | 0.000000           | 2.00     | 0.000000     |
| '1752011000 | Miscellaneous      | FS2  | 0.001500           | 1.00     | 0.001500     |
| '1052730009 | Other              | R1104,R1105,R1-<br>106,<br>R1107,R1108,R1-<br>109, R1110,R1111 | 0.000000           | 8.00     | 0.000000     |
| '1654226303 | Connection         | CN21,CN24  | 0.000569           | 2.00     | 0.001138     |
| '14S4963501 | Integrated Circuit | U10  | 0.029683           | 1.00     | 0.029683     |
| '1540710382 | Resistor           | RP10,RP11  | 0.003123           | 2.00     | 0.006246     |
| '1540722281 | Resistor           | RP4  | 0.003123           | 1.00     | 0.003123     |
| '14S4140001 | Other              | U1   | 0.000000           | 1.00     | 0.000000     |
| 'M091000000 | Other              | CN21_B,CN21_C,<br><br>CN24_B,CN24_C                            | 0.000000           | 4.00     | 0.000000     |
| '1653003202 | Other              | JP11,JP9   | 0.000000           | 2.00     | 0.000000     |
| '165320520C | Other              | CN10,CN11,DIO2,<br>USB1  | 0.000000           | 4.00     | 0.000000     |
| '105270000A | Resistor           | R923   | 0.001134           | 1.00     | 0.001134     |
| '1301SK5640 | Other              | D81  | 0.000000           | 1.00     | 0.000000     |
| '14S5A73200 | Integrated Circuit | U34  | 0.013091           | 1.00     | 0.013091     |
| '16515A2994 | Connection         | DIMM1  | 0.000569           | 1.00     | 0.000569     |
| '16515A2992 | Other              | DIMM2  | 0.000000           | 1.00     | 0.000000     |
| '1315013810 | Semiconductor      | Q5   | 0.039802           | 1.00     | 0.039802     |
| '1052510719 | Other              | R1008,R1012,R1-<br>016, R1020                                  | 0.000000           | 4.00     | 0.000000     |
| '1050501054 | Other              | R116   | 0.000000           | 1.00     | 0.000000     |
| '105A548713 | Other              | R694   | 0.000000           | 1.00     | 0.000000     |
| '1059701001 | Other              | R890   | 0.000000           | 1.00     | 0.000000     |
| '165390003B | Connection         | CN8_1  | 0.000569           | 1.00     | 0.000569     |
| '1653003101 | Connection         | JP1,JP2,JP3,JP4,<br>JP5  | 0.000853           | 5.00     | 0.004267     |
| '1114633130 | Other              | C602,C603  | 0.000000           | 2.00     | 0.000000     |
| '1119633195 | Other              | C259,C262,C273,<br>C276,C364                                   | 0.000000           | 5.00     | 0.000000     |
| '1169656132 | Capacitor          | EC14,EC25  | 0.002733           | 2.00     | 0.005466     |
| '1181633112 | Other              | C609,C613  | 0.000000           | 2.00     | 0.000000     |
| '1189656193 | Capacitor          | C187,C192  | 0.002268           | 2.00     | 0.004535     |
| '1214216190 | Other              | L31  | 0.000000           | 1.00     | 0.000000     |
| '1655304020 | Other              | CN5  | 0.000000           | 1.00     | 0.000000     |
| '1601123600 | Other              | SW1  | 0.000000           | 1.00     | 0.000000     |
| '1652003101 | Other              | CN31   | 0.000000           | 1.00     | 0.000000     |
| '1652517205 | Other              | AUDIO1   | 0.000000           | 1.00     | 0.000000     |
| '1652522208 | Other              | CN6,CN7  | 0.000000           | 2.00     | 0.000000     |
| '1653002101 | Connection         | J6   | 0.000569           | 1.00     | 0.000569     |
| '1653300102 | Connection         | JP11(5-6),JP9(5-6)   | 0.000569           | 2.00     | 0.001138     |
| '1653300107 | Other              | JP1(1-2),JP2(1-2),<br><br>JP3(1-2),JP4(2-3),<br>JP5(1-2)       | 0.000000           | 5.00     | 0.000000     |
| '1654415314 | Other              | CN15   | 0.000000           | 1.00     | 0.000000     |
| '165490700C | Other              | SATA1,SATA2  | 0.000000           | 2.00     | 0.000000     |

### Standard Reliability Prediction Report

**Part Number** AHP-2176  
**Reference Des**  
**Date** 十一月 20, 2012  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 25.00



**Description** Top-level assembly  
**File Name** AHP-2176-2.RPJ  
**Time** 5:11 下午  
**Failure Rate** 8.540231  
**MTBF** 117,093

| Part Number | Category           | Ref Des       | Failure Rate, Unit | Quantity | Failure Rate |
|-------------|--------------------|---------------|--------------------|----------|--------------|
| '1700050355 | Other              | CN27          | 0.000000           | 1.00     | 0.000000     |
| '1655004011 | Connection         | PWR1,PWR2     | 0.006828           | 2.00     | 0.013655     |
| '1655004014 | Connection         | FAN1,FAN2     | 0.000569           | 2.00     | 0.001138     |
| '1655103010 | Other              | CN32          | 0.000000           | 1.00     | 0.000000     |
| '1655305020 | Connection         | CN18          | 0.001422           | 1.00     | 0.001422     |
| '1655404020 | Connection         | CN2           | 0.001138           | 1.00     | 0.001138     |
| '1750220323 | Other              | BAT1          | 0.000000           | 1.00     | 0.000000     |
| '175910000B | Miscellaneous      | BZ1           | 0.075000           | 1.00     | 0.075000     |
| '1654418103 | Connection         | CN13          | 0.005121           | 1.00     | 0.005121     |
| '1304451400 | Other              | D57           | 0.000000           | 1.00     | 0.000000     |
| '1211100110 | Other              | L35           | 0.000000           | 1.00     | 0.000000     |
| '1654907002 | Connection         | SATA3,SATA4   | 0.001991           | 2.00     | 0.003983     |
| '175011901H | Miscellaneous      | BAT1          | 0.450000           | 1.00     | 0.450000     |
| '1181610191 | Capacitor          | EC15,EC16,EC3 | 0.002268           | 3.00     | 0.006803     |
| '2097000500 | Other              |               | 0.000000           | 1.00     | 0.000000     |
| '1462217600 | Other              | U9            | 0.000000           | 1.00     | 0.000000     |
| '2099000040 | Other              |               | 0.000000           | 1.00     | 0.000000     |
| '14S6206402 | Integrated Circuit |               | 0.029683           | 1.00     | 0.029683     |