

AEV-6356

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 6.817562ppm MTBF: 146680 Hours
---------	--

Issue date	Approval	Test Engineer
2012/12/24	Tom Lin	Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: AEV-6356(9697QM7773-D)

II . Prediction Date: Dec. 24, 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:

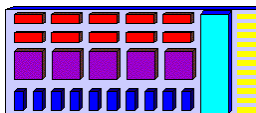
AEV-6356(9697QM7773-D):

- Failure Rate: 6.817562ppm

- MTBF: 146680 Hours

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign,
Temperature 25.00

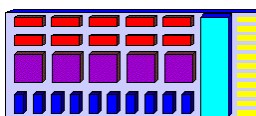


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	System		1.00	6.817562	146,680

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

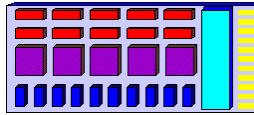


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
SYSTEM	Other	DESIGNATOR	0.000000	.00	0.000000
9697QM7773-S	Other		0.000000	1.00	0.000000
1907QM7761	Other	PCB1	0.000000	1.00	0.000000
1050501004	Resistor	R830,R832	0.001134	2.00	0.002268
1050502204	Resistor	R698	0.001134	1.00	0.001134
1050504724	Resistor	R184,R185,R660, R661,R663,R664, R667,R673,R674, R680,R700,R708- ,R71, R732,R752,R761	0.001134	16.00	0.018142
1050505124	Resistor	R66,R704	0.001134	2.00	0.002268
1050505604	Resistor	R449,R577,R582	0.001134	3.00	0.003402
1050505633	Resistor	R364,R621	0.001134	2.00	0.002268
1050502424	Resistor	R574	0.001134	1.00	0.001134
1050510034	Resistor	R15,R206,R260,- R264, R289,R315,R316, R341,R360,R363, R382,R408,R470, R527,R539,R589, R604,R616,R638, R695,R754	0.001134	21.00	0.023811
1050514324	Resistor	R543	0.001134	1.00	0.001134
1050515034	Other	R31	0.000000	1.00	0.000000
1050519114	Other	R576,R583	0.000000	2.00	0.000000
1050537404	Other	R639,R640,R641, R642,R643,R644, R844	0.000000	7.00	0.000000
1050520004	Resistor	R401	0.001134	1.00	0.001134
1050520034	Resistor	R121,R127,R141- ,R28, R499	0.001134	5.00	0.005669
1050524904	Resistor	R245,R247	0.001134	2.00	0.002268
1050533034	Resistor	R440,R460	0.001134	2.00	0.002268
1050533214	Resistor	R404	0.001134	1.00	0.001134
1050539224	Resistor	R622	0.001134	1.00	0.001134
1050540224	Resistor	R386,R414	0.001134	2.00	0.002268
1050539214	Resistor	R607	0.001134	1.00	0.001134
1050547004	Resistor	R636,R646	0.001134	2.00	0.002268
1050502234	Resistor	R474,R502	0.001134	2.00	0.002268
105A551123	Other	R606	0.000000	1.00	0.000000
1050700002	Resistor	R781	0.001134	1.00	0.001134
1050702734	Resistor	R226	0.001134	1.00	0.001134
1050704304	Resistor	R405,R423	0.001134	2.00	0.002268
1050747012	Other	R686,R690	0.000000	2.00	0.000000

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

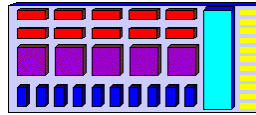


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1050756004	Other	R653,R654,R655, R758	0.000000	4.00	0.000000
1181610180	Other	EC4,EC8	0.000000	2.00	0.000000
1052500171	Resistor	R779	0.001134	1.00	0.001134
1052730009	Other	R714,R725,R748, R756	0.000000	4.00	0.000000
1054700289	Resistor	R837	0.001134	1.00	0.001134
1059700001	Resistor	R309,R345,R755, R863,R864,R865, R866,R873,R874, R875,R876,R877, R878	0.001134	13.00	0.014740
1059702261	Resistor	R298	0.001134	1.00	0.001134
105A500103	Resistor	R175,R282,R343, R392,R44,R524,- R666, R668,R87	0.001134	9.00	0.010205
105A500133	Resistor	R3,R650	0.001134	2.00	0.002268
105A500139	Resistor	R106,R122,R137, R152,R21,R234,- R244, R265,R267,R272, R275,R299,R308, R412,R413,R422, R427,R444,R446, R458,R501,R503, R506,R507,R530, R548,R585,R586, R665,R728,R745, R771,R800,R81,- R811	0.001134	35.00	0.039685
105A500239	Resistor	R678	0.001134	1.00	0.001134

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

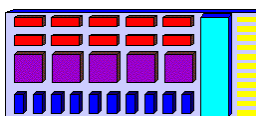


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A501039	Resistor	R151,R168,R183, R207,R208,R211, R212,R225,R233, R288,R29,R303,- R306, R321,R322,R353, R355,R359,R361, R366,R368,R372, R373,R395,R397, R409,R417,R418, R420,R429,R431, R434,R436,R45,- R454, R461,R463,R465, R473,R481,R483,	0.001134	72.00	0.081637
105A501333	Resistor	R85	0.001134	1.00	0.001134
105A501529	Resistor	R435	0.001134	1.00	0.001134
105A501539	Resistor	R135	0.001134	1.00	0.001134
105A502033	Resistor	R534,R727	0.001134	2.00	0.002268
105A502039	Resistor	R124,R278,R350- ,R43, R597,R671,R675, R679,R86	0.001134	9.00	0.010205
105A502223	Resistor	R177	0.001134	1.00	0.001134
105A503033	Resistor	R42,R533	0.001134	2.00	0.002268
105A503039	Resistor	R273,R291,R393, R611,R618	0.001134	5.00	0.005669
105A503309	Resistor	R312,R336,R357, R381,R399,R419, R472	0.001134	7.00	0.007937
105A504323	Other	R216	0.000000	1.00	0.000000
105A505109	Resistor	R528,R529,R531, R532,R829	0.001134	5.00	0.005669
105A505123	Resistor	R669	0.001134	1.00	0.001134
105A507503	Other	R707,R750	0.000000	2.00	0.000000
105A507509	Resistor	R406,R424,R49,- R51, R54	0.001134	5.00	0.005669
105A508223	Other	R117,R847	0.000000	2.00	0.000000
105A545313	Other	R105	0.000000	1.00	0.000000
105A511823	Resistor	R139	0.001134	1.00	0.001134
105A513009	Resistor	R371,R415,R579	0.001134	3.00	0.003402
105A514009	Resistor	R348	0.001134	1.00	0.001134

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

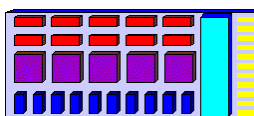


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A515009	Resistor	R305,R324,R331- ,R50, R52,R53	0.001134	6.00	0.006803
105A518723	Other	R620,R628	0.000000	2.00	0.000000
105A516033	Other	R332	0.000000	1.00	0.000000
105A516933	Resistor	R143	0.001134	1.00	0.001134
105A516523	Other	R281,R391,R523, R645,R647	0.000000	5.00	0.000000
105A522663	Resistor	R451	0.001134	1.00	0.001134
105A523713	Resistor	R787	0.001134	1.00	0.001134
105A524003	Resistor	R333	0.001134	1.00	0.001134
105A525563	Resistor	R385	0.001134	1.00	0.001134
105A528723	Resistor	R280,R390,R525, R630,R637	0.001134	5.00	0.005669
105A532429	Other	R544	0.000000	1.00	0.000000
105A532413	Resistor	R110	0.001134	1.00	0.001134
105A537463	Resistor	R791	0.001134	1.00	0.001134
105A549913	Resistor	R60,R98	0.001134	2.00	0.002268
105A549919	Resistor	R292,R542	0.001134	2.00	0.002268
105A549923	Resistor	R540	0.001134	1.00	0.001134
105A549963	Resistor	R792	0.001134	1.00	0.001134
105A549969	Resistor	R209	0.001134	1.00	0.001134
105A553623	Other	R317	0.000000	1.00	0.000000
105A539003	Other	R205	0.000000	1.00	0.000000
105A575009	Resistor	R20,R210,R22,R- 720, R747,R784	0.001134	6.00	0.006803
105A590963	Other	R794	0.000000	1.00	0.000000
105A700003	Resistor	R10,R11,R116,R- 120, R123,R125,R13,- R131, R14,R146,R150,- R176, R199,R201,R4,R6- , R672,R685,R73,- R74, R765,R766,R782, R867	0.001134	24.00	0.027212

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

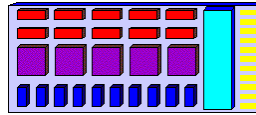


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A700009	Resistor	R100,R111,R128, R132,R134,R136, R147,R154,R156, R157,R158,R170, R173,R174,R178- ,R18, R181,R182,R188, R193,R194,R195, R196,R203,R204, R215,R241,R242, R243,R246,R254, R255,R257,R268, R269,R274,R286, R294,R30,R307,R	0.001134	147.00	0.166676
105A700139	Resistor	R101,R140,R155, R197,R198,R263- ,R59, R722,R737,R739, R742,R84,R90,R- 97	0.001134	14.00	0.015874
105A701003	Resistor	R726	0.001134	1.00	0.001134
105A701009	Resistor	R369,R633,R806	0.001134	3.00	0.003402
105A701033	Resistor	R556,R796,R838	0.001134	3.00	0.003402
105A701039	Resistor	R102,R108,R113, R115,R129,R130, R138,R145,R148- ,R17, R180,R192,R248- ,R27, R295,R296,R297, R464,R58,R738,- R740, R741,R746,R78,- R851, R868,R870,R871- ,R89, R99	0.001134	30.00	0.034016
105A701053	Resistor	R252	0.001134	1.00	0.001134
105A701069	Resistor	R441	0.006803	1.00	0.006803
105A701539	Other	R285,R330,R374	0.000000	3.00	0.000000

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

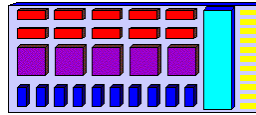


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A702039	Resistor	R358	0.001134	1.00	0.001134
105A702053	Resistor	R161	0.006803	1.00	0.006803
105A702209	Resistor	R24,R25,R26,R33	0.001134	4.00	0.004535
105A702229	Resistor	R231,R277,R284, R301,R335,R340, R344,R349,R351, R469,R493,R494, R497,R512,R514, R547,R555,R566- ,R61, R63,R64,R68,R7- 72, R807	0.001134	24.00	0.027212
105A702233	Other	R718,R730	0.000000	2.00	0.000000
105A703309	Resistor	R189,R861	0.001134	2.00	0.002268
105A703329	Resistor	R227	0.001134	1.00	0.001134
105A704729	Resistor	R126,R425,R47,- R48, R484,R526,R551, R559,R69,R701,- R717, R721,R729,R734, R744,R749,R762- ,R77, R848	0.001134	19.00	0.021543
105A704739	Resistor	R375,R448	0.001134	2.00	0.002268
105A705129	Resistor	R229,R235	0.001134	2.00	0.002268
105A705139	Resistor	R723,R724,R731, R751,R849	0.001134	5.00	0.005669
105A706209	Resistor	R450,R83,R91	0.001134	3.00	0.003402
105A706823	Other	R38,R39	0.000000	2.00	0.000000
1050508224	Resistor	R276,R283,R300, R304,R310,R318, R326,R362,R430, R432,R433,R442, R443,R475,R482, R517,R518,R521, R567,R568,R569, R570,R598	0.001134	23.00	0.026079
105A710009	Resistor	R230,R831,R833	0.001134	3.00	0.003402

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

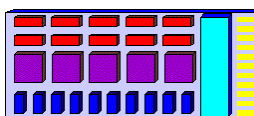


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
105A710039	Resistor	R112,R118,R142, R149,R256,R258, R261,R293,R32,- R339, R466,R476,R511- ,R96	0.001134	14.00	0.015874
105A715003	Resistor	R103,R107,R12,- R200, R202,R95	0.001134	6.00	0.006803
105A720009	Resistor	R356,R380	0.001134	2.00	0.002268
105A733003	Resistor	R1,R164,R2,R605	0.001134	4.00	0.004535
105A733009	Resistor	R402	0.001134	1.00	0.001134
105A747003	Resistor	R16,R23,R757,R- 850	0.001134	4.00	0.004535
106B510030	Resistor	RT1,RT2,RT3,RT4- , RT5,RT6,RT7	0.005690	7.00	0.039828
106B701031	Other	RT8,RT9	0.000000	2.00	0.000000
1121501680	Capacitor	BC39,BC45	0.002733	2.00	0.005466
1121501690	Capacitor	BC1,BC10,BC100, BC101,BC102,BC- 103, BC104,BC105,BC- 106, BC107,BC108,BC- 109, BC11,BC110,BC1- 11, BC112,BC113,BC- 114, BC115,BC116,BC- 117, BC118,BC119,BC- 12, BC120,BC121,BC- 122, BC123,BC124,BC- 125, BC126,BC127,BC- 13, BC132,BC133,BC- 134, BC135,BC136,BC1	0.002268	169.00	0.383242

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

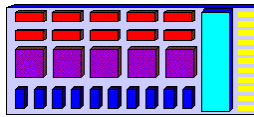


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1121501691	Capacitor	BC79,BC84,C102, C106,C132,C151, C180,C269,C285, C294,C308,C309, C310,C311,C312, C314,C324,C327, C487,C490,C76,- C93, C95,C96	0.002268	24.00	0.054425
1121533480	Other	C230	0.000000	1.00	0.000000
1121610180	Capacitor	C268,C278,C282, C287,C321,C322	0.002268	6.00	0.013606
1121701080	Capacitor	BC96,C244,C279, C289,C40,C85	0.002268	6.00	0.013606
1121747890	Capacitor	C167	0.002268	1.00	0.002268
1122522890	Capacitor	C225	0.002268	1.00	0.002268
1124410190	Capacitor	C249,C250	0.002268	2.00	0.004535
1124418090	Capacitor	C137,C139,C194, C195	0.002268	4.00	0.009071
1124418190	Capacitor	C10,C11,C12,C24- , C323,C326,C328, C329,C330,C331, C332,C333,C334, C335,C336,C337, C338,C339,C340, C341,C6,C7,C8,C9	0.002268	24.00	0.054425
1124427090	Capacitor	C16,C17,C18,C19- , C22,C37,C46,C58- , C66	0.002268	9.00	0.020409
1122547450	Other	C226	0.000000	1.00	0.000000
1124468090	Capacitor	C88	0.002268	1.00	0.002268
1124522280	Capacitor	C104,C154,C175, C176,C190,C198, C210,C212,C223, C224,C246,C247, C248,C253,C267, C270,C284,C299- ,C31, C61	0.002268	20.00	0.045354

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

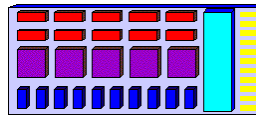


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1124533190	Capacitor	C100	0.002268	1.00	0.002268
1189933180	Other	C238,C239,C243	0.000000	3.00	0.000000
1121733380	Other	C153,C189,C211, C259,C260	0.000000	5.00	0.000000
1129522790	Capacitor	C178,C25	0.002268	2.00	0.004535
1129610051	Capacitor	C15,C5,C84,TC1, TC10,TC13,TC2,- TC3, TC38,TC4,TC5,T- C6, TC8	0.002268	13.00	0.029480
1129610080	Capacitor	C111,C148,C185, C204,C208,C215, C216,C286,C301, C307,C351,C354, C381,C39,C441,- C443, C466,C467,C472, C473,TC11,TC14, TC15,TC16,TC17, TC21,TC22,TC23, TC24,TC25,TC26, TC27,TC28,TC36, TC37,TC9	0.002268	36.00	0.081637
1129610260	Other	C26,C27	0.000000	2.00	0.000000
1129622690	Capacitor	C136,C161,C266, C271	0.002268	4.00	0.009071
1129701690	Capacitor	C261,C295,C315, C316,C317,C318, C342,C35,C36,C- 489, C491,C55	0.002268	12.00	0.027212
1129701790	Capacitor	C141,C164,C174, C343,C344,C345, C346,C368,C369- ,C41, C42,C43,C44,C45- , C62,C63,C64,C65- , C70,C71,C72,C73- , C74	0.002268	23.00	0.052157
11C1501050	Capacitor	C353	0.002268	1.00	0.002268

Standard Reliability Prediction Report

Part Number System
 Reference Des
 Date 十二月 24, 2012
 Environment GB, GC - Ground Benign, Controlled
 Temperature 25.00

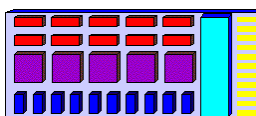


Description Top-level assembly
 File Name 9697QM7773-D.RPJ
 Time 11:45 上午
 Failure Rate 6.817562
 MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1129710090	Capacitor	C20,C23,C32,C33- , C34,C54,C56	0.002268	7.00	0.015874
1129710390	Capacitor	C155,C182,C191	0.002268	3.00	0.006803
1129722091	Capacitor	C297	0.002268	1.00	0.002268
1129747090	Capacitor	C67,C81	0.002268	2.00	0.004535
1174522180	Capacitor	CP1,CP2	0.002733	2.00	0.005466
1189610151	Capacitor	C89	0.002268	1.00	0.002268
1189633162	Capacitor	EC6	0.002268	1.00	0.002268
1189647180	Capacitor	EC5	0.002268	1.00	0.002268
1189647190	Other	C130	0.000000	1.00	0.000000
11B2701690	Other	BC90,C171,C197, C205,C222,C240, C241,C242,C245, C291,C298	0.000000	11.00	0.000000
11C1533890	Capacitor	C135,C156	0.002268	2.00	0.004535
11C2501790	Capacitor	C138,C142	0.002268	2.00	0.004535
11C2510480	Capacitor	BC20,C163,C177	0.002268	3.00	0.006803
11C5501650	Other	C280,C281,C290, C293,C319,C488	0.000000	6.00	0.000000
11C5522690	Other	C256,C306,C496	0.000000	3.00	0.000000
11C9510050	Capacitor	TC12	0.002268	1.00	0.002268
11C9510290	Other	C276,C28,C494,- C495	0.000000	4.00	0.000000
11E1510050	Capacitor	C168,C173,C183, C214,C218,C221, C251,C288,C300- ,C47, C48,C77,TC7	0.002268	13.00	0.029480
11E1522680	Capacitor	C265	0.002268	1.00	0.002268
11E1547090	Other	C1,C296,C313	0.000000	3.00	0.000000
11E9510051	Capacitor	C184	0.002268	1.00	0.002268
11E2601050	Capacitor	C159	0.002268	1.00	0.002268
11E9501090	Capacitor	C122,C207	0.002268	2.00	0.004535

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

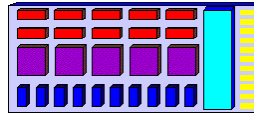


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
11E9501091	Capacitor	C114,C127,C146, C150,C179,C193, C202,C203,C213, C233,C262,C263, C272,C273,C274, C277,C283,C302, C347,C348,C349, C352,C357,C362, C363,C364,C365, C366,C367,C370, C373,C374,C375, C377,C378,C382, C383,C384,C385, TC18,TC19,TC20, TC29,TC30,TC31, TC32,TC33,TC34, TC35	0.002268	76.00	0.172346
11E9510050	Capacitor	TC18,TC19,TC20, TC29,TC30,TC31, TC32,TC33,TC34, TC35	0.002268	10.00	0.022677
11E9522680	Capacitor	C200,C252,C486	0.002268	3.00	0.006803
11E9547680	Capacitor	C325,C97,C98	0.002268	3.00	0.006803

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

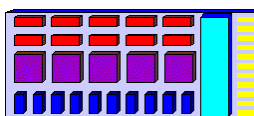


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
11E9622050	Capacitor	C101,C124,C152, C160,C172,C186, C361,C387,C388, C389,C390,C391, C392,C397,C398, C412,C417,C418, C419,C420,C421, C428,C429,C430, C431,C432,C433, C444,C445,C446, C447,C448,C449, C451,C455,C457, C459,C461,C463, C379,C380,C79	0.002268	55.00	0.124724
11E9622080	Capacitor	C115,C13,C264,- C51	0.002268	4.00	0.009071
11E9647680	Capacitor				
1211100113	Inductor	L12,L13,L8	0.001134	3.00	0.003402
1211100160	Inductor	L28	0.001134	1.00	0.001134
121110100F	Inductor	L29	0.043086	1.00	0.043086
121110156K	Inductor	L10	0.043086	1.00	0.043086
121110156M	Inductor	L15	0.001134	1.00	0.001134
121110226K	Other	L4	0.000000	1.00	0.000000
121110336X	Inductor	L11,L5,L6	0.043086	3.00	0.129259
1211103671	Inductor	L14,L16,L18,L20, L21	0.043086	5.00	0.215432
1211104760	Other	L7	0.000000	1.00	0.000000
1212306030	Resistor	FB1,FB18,FB19,- FB20, FB23	0.005690	5.00	0.028449
1212306032	Other	FB21,L19	0.000000	2.00	0.000000
121230603S	Inductor	FB10,FB13,FB14,- FB6, FB7,FB9	0.001134	6.00	0.006803
121230603Z	Inductor	FB24,FB25,FB26	0.001134	3.00	0.003402
1212308054	Resistor	L1,L23,L26,L27	0.005690	4.00	0.022759
121231206H	Other	FB11,FB12,FB16, FB17,FB2,FB8	0.000000	6.00	0.000000
12123D0001	Inductor	FB3,FB4,FB5	0.001134	3.00	0.003402
1214309008	Inductor	CH1,CH2,CH3,C- H4,L2, L24,L25,L3	0.001134	8.00	0.009071
123132505D	Miscellaneous	Y1,Y2,Y3	0.075000	3.00	0.225000
1231332722	Miscellaneous	Y4	0.075000	1.00	0.075000
1233348051	Other	OSC1	0.000000	1.00	0.000000
1301005440	Semiconductor	D20,D30,D6,D7	0.011940	4.00	0.047762

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

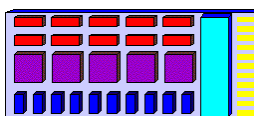


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1301005442	Semiconductor	D14,D15,D26,D29- D31,D33,D43	0.011940	7.00	0.083583
1301005444	Semiconductor	D18,D21,D22,D23- D24,D27,D28	0.011940	7.00	0.083583
1301005450	Other	D16,D34	0.000000	2.00	0.000000
1301013041	Semiconductor	D32	0.011940	1.00	0.011940
1304001340	Semiconductor	D1,LED3,LED4,L- ED5	0.002438	4.00	0.009753
1305100541	Semiconductor	D3,D35,D36,D37,- D38, D39,D4,D40,D41,- D42, D5,D8	0.011940	12.00	0.143286
1310390410	Semiconductor	Q1,Q67,Q69,Q71- Q78, Q86,Q87,Q95	0.011940	8.00	0.095524
1310390413	Semiconductor	Q5,Q91	0.011940	2.00	0.023881
1311138610	Semiconductor	Q13,Q7	0.011940	2.00	0.023881
1311390610	Semiconductor	Q2,Q92	0.011940	2.00	0.023881
1311390612	Semiconductor	Q3,Q93	0.011940	2.00	0.023881
1314880511	Integrated Circuit	U31	0.029683	1.00	0.029683
1315230511	Semiconductor	Q60,Q63	0.039802	2.00	0.079603
1315441012	Semiconductor	Q36	0.039802	1.00	0.039802
1315443512	Other	Q24,Q25,U32	0.000000	3.00	0.000000
1315700211	Semiconductor	Q74,Q77,Q88,Q89	0.039802	4.00	0.159207
1315700216	Semiconductor	Q14,Q15,Q19,Q2- 1, Q22,Q23,Q30,Q3- 9,Q4, Q40,Q41,Q42,Q4- 3, Q45,Q46,Q49,Q5- 5, Q57,Q6,Q64,Q65- ,Q68, Q70,Q72,Q79,Q9- 0, Q94	0.039802	27.00	1.074644
1315700217	Semiconductor	Q10,Q11,Q33,Q3- 4, Q52,Q53,Q61,Q6- 2,Q9	0.039802	9.00	0.358215
1315762010	Semiconductor	Q47,Q98	0.000000	2.00	0.000000
1.21E+06	Other	L22	0.000000	1.00	0.000000
1315806510	Semiconductor	Q12,Q18,Q20,Q8- U20, U25,U28,U35,U9	0.007960	9.00	0.071643
1315870710	Other	Q16,Q17,Q26,Q29	0.000000	4.00	0.000000
1315970211	Semiconductor	U59,U6,U62	0.079603	3.00	0.238810
14S2200900	Integrated Circuit	U7	0.029683	1.00	0.029683
14S2965000	Other	U52	0.000000	1.00	0.000000
14S3003700	Other	T1,T2	0.000000	2.00	0.000000
14S3030000	Other	U23	0.000000	1.00	0.000000
14S3051000	Other	U2,U64	0.000000	2.00	0.000000
14S3052400	Integrated Circuit	U3,U4	0.029683	2.00	0.059366
14S3089200	Integrated Circuit	U60	0.013091	1.00	0.013091

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

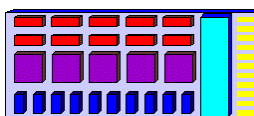


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
14S3112300	Integrated Circuit	U1	0.013091	1.00	0.013091
14S3121600	Integrated Circuit	U36	0.016000	1.00	0.016000
14S3121800	Integrated Circuit	U18,U19,U5	0.029683	3.00	0.089049
14S3973100	Integrated Circuit	U14	0.029683	1.00	0.029683
14S4021301	Integrated Circuit	U12,U66,U67	0.029683	3.00	0.089049
14S4021310	Other	U63	0.000000	1.00	0.000000
14S4048503	Integrated Circuit	U10,U11,U69,U70	0.029683	4.00	0.118732
14S4186600	Integrated Circuit	U61	0.013091	1.00	0.013091
14S4170000	Other	U37	0.000000	1.00	0.000000
14S4257900	Integrated Circuit	U21	0.013091	1.00	0.013091
14S4825740	Integrated Circuit	U22	0.013091	1.00	0.013091
14S4QM7700	Integrated Circuit	U33	0.013091	1.00	0.013091
14S5908000	Other	U44	0.000000	1.00	0.000000
14S5A00601	Integrated Circuit	U15,U71	0.013091	2.00	0.026183
14S5A00702	Integrated Circuit	U40,U42,U50	0.029683	3.00	0.089049
14S5A00704	Integrated Circuit	U29,U38,U45	0.013091	3.00	0.039274
14S5A00802	Integrated Circuit	U24,U27,U46,U48	0.013091	4.00	0.052365
14S5A00821	Integrated Circuit	U58	0.013091	1.00	0.013091
14S5A12503	Integrated Circuit	U16,U72	0.013091	2.00	0.026183
14S5A12506	Integrated Circuit	U13,U68	0.013091	2.00	0.026183
14S5A73200	Integrated Circuit	U65	0.013091	1.00	0.013091
14S6201280	Integrated Circuit	U43	0.013091	1.00	0.013091
14S6308002	Integrated Circuit	U17	0.017941	1.00	0.017941
14S7035701	Other	ISO1,ISO8	0.000000	2.00	0.000000
14S7041000	Other	ISO2,ISO3,ISO4, ISO5,ISO6,ISO7, ISO9	0.000000	7.00	0.000000
14S7141100	Other	U55	0.000000	1.00	0.000000
14S7141200	Other	U54	0.000000	1.00	0.000000
14S9108500	Integrated Circuit	U34,U39,U41,U49	0.029683	4.00	0.118732
14S9160100	Other	U30,U53,U57	0.000000	3.00	0.000000
14S9341101	Integrated Circuit	U8	0.013091	1.00	0.013091
1540710280	Resistor	RP3,RP4	0.003123	2.00	0.006246
1540722281	Resistor	RP5	0.003123	1.00	0.003123
1540733085	Resistor	RP1,RP10,RP11,- RP2, RP6,RP7,RP8,RP9	0.003123	8.00	0.024984
1540775081	Other	RN1,RN2	0.000000	2.00	0.000000
16515A2991	Connection	DIMM1	0.000569	1.00	0.000569
1653003202	Other	JP5,JP6	0.000000	2.00	0.000000
165300420L	Connection	CN9	0.002276	1.00	0.002276
1653005209	Other	CN5	0.000000	1.00	0.000000
1653212100	Connection	CN10	0.003414	1.00	0.003414
1653924110	Connection	CN18	0.000569	1.00	0.000569
1654226303	Connection	CN19,CN8	0.000569	2.00	0.001138
1651508010	Other	SIM1	0.000000	1.00	0.000000
1059701001	Other	R79	0.000000	1.00	0.000000
1305080040	Semiconductor	D10,D11,D12,D9	0.011940	4.00	0.047762
1050501054	Other	R477,R498	0.000000	2.00	0.000000
1315013810	Semiconductor	Q59	0.039802	1.00	0.039802
1052510719	Other	R687,R688,R689, R691,R692,R693	0.000000	6.00	0.000000

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00

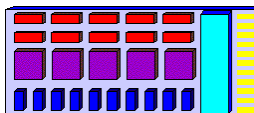


Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
M091000000	Other	CN19_B,CN19_C, CN8_B,CN8_C	0.000000	4.00	0.000000
105A512039	Resistor	R133,R40,R41	0.001134	3.00	0.003402
1189647187	Other	C128,C131,C206, C229,C231,C232, C236,C237,C411	0.000000	9.00	0.000000
1189922181	Other	C38,C59	0.000000	2.00	0.000000
1050503934	Other	R575	0.000000	1.00	0.000000
105A513733	Other	R608	0.000000	1.00	0.000000
130558CA40	Other	D61	0.000000	1.00	0.000000
17523110F1	Other	FS6,FS7	0.000000	2.00	0.000000
1315490110	Other	Q103,Q105,Q106, Q109,Q111	0.000000	5.00	0.000000
1189627150	Capacitor	TC39,TC40,TC41	0.002268	3.00	0.006803
11E9647690	Other	C181	0.000000	1.00	0.000000
1752001603	Other	FS1,FS2,FS3	0.000000	3.00	0.000000
11E1622060	Capacitor	C121,C123,C129, C144,C157,C165	0.002268	6.00	0.013606
105A551033	Other	R279,R389,R522	0.000000	3.00	0.000000
105A536533	Resistor	R619,R629	0.001134	2.00	0.002268
1169656132	Capacitor	C29,C303,C320	0.002733	3.00	0.008198
1161627100	Capacitor	EC2,EC3,EC7,EC9	0.002733	4.00	0.010931
1169682192	Capacitor	C162	0.002733	1.00	0.002733
12510MA010	Other	U56	0.000000	1.00	0.000000
1652010101	Other	CN12	0.000000	1.00	0.000000
165250520C	Other	CN14	0.000000	1.00	0.000000
1652602208	Other	CN11	0.000000	1.00	0.000000
1653002101	Connection	J2	0.000569	1.00	0.000569
1653003101	Connection	JP4	0.000853	1.00	0.000853
1653003201	Connection	JP1,JP7	0.000569	2.00	0.001138
1653300107	Other	JP1(1-2),JP1(3-4), JP1(5-6),JP4(1-2), JP5(5-6),JP6(5-6), JP7(1-2),JP7(3-4), JP7(5-6)	0.000000	9.00	0.000000
165390003B	Connection	CN18_1	0.000569	1.00	0.000569
1654409103	Connection	CN15,CN16,CN17	0.064009	3.00	0.192028
1654430301	Other	CN1	0.000000	1.00	0.000000
1654515308	Connection	CN2	0.004267	1.00	0.004267
1654818301	Connection	CN13	0.000569	1.00	0.000569
165490700C	Other	SATA1,SATA2	0.000000	2.00	0.000000
1655003022	Connection	CN4	0.000853	1.00	0.000853
1655004011	Connection	PWR1,PWR2	0.006828	2.00	0.013655
1655004014	Connection	FAN1	0.000569	1.00	0.000569
1655302020	Connection	CN3	0.000569	1.00	0.000569
1304451451	Other	LED1,LED2	0.000000	2.00	0.000000

Standard Reliability Prediction Report

Part Number System
Reference Des
Date 十二月 24, 2012
Environment GB, GC - Ground Benign, Controlled
Temperature 25.00



Description Top-level assembly
File Name 9697QM7773-D.RPJ
Time 11:45 上午
Failure Rate 6.817562
MTBF 146,680

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
1654908101	Other	M12COM4,M12LAN1, M12LAN2,USBM-12	0.000000	4.00	0.000000
1654904305	Other	M12POWER	0.000000	1.00	0.000000
125148S120	Other	U73	0.000000	1.00	0.000000
1655002011	Other	HEADER2,HEADER3	0.000000	2.00	0.000000