

OMNI-3105-BT

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8690.311662 ppm MTBF: 115,071 Hours
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Issue date	QE Manager	Test Engineer
2016/10/18	KJ Wang	Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: OMNI-3105-BT

II . Prediction Date: Oct. 18, 2016

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

IV . Predicted by: Anderson Lin

V . Equipment: Windchill Quality Solutions 10.1

VI. Simulation Environment:

- Temperature: 30 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The Failure rate multiplier is 1000000000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

OMNI-3125-BT(9697BT0309-D):

- Failure Rate: 8690.311662 ppm
- MTBF: 115,071 Hours Hours

Below components were can't get MTBF value by the suppliers:

- 10.4", TFT LCD, 230 nits, LED backlight

**Reliability Prediction
Summary**

File Name: OMNI-3105-BT.rfp
System: System
Ref Des:
Description:

Failure Rate: 8690.311662
MTBF (hrs): 115,071
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
OMNI-3105-BT	System		1	8690.311662	115,071

File Name: OMNI-3105-BT.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 8690.311662
MTBF (hrs): 115,071
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050501234	Resistor	R525,R568,R604	2.547039	3	9.343982
1050501834	Resistor	R209	2.547039	1	3.541821
1050502004	Resistor	R513,R514,R522,R523,R569,R570,R647,R663	2.547039	8	23.134533
1050502734	Resistor	R253,R882	2.547039	2	6.490186
1050503634	Resistor	R324	2.547039	1	3.541821
1050503934	Resistor	R163,R596,R600,R690	2.547039	4	12.149228
1050504724	Resistor	R24,R3,R4,R493,R494,R60,R70	2.547039	7	20.411813
1050504734	Resistor	R251,R296	2.547039	2	6.490186
1050505124	Resistor	R129,R288	2.547039	2	6.490186
1050505134	Resistor	R306,R580,R612	2.547039	3	9.343982
1050505633	Resistor	R139,R845	2.547039	2	6.490186
1050507524	Resistor	R287,R393	2.547039	2	6.490186
1050510034	Resistor	R459,R473,R63,R69,R76	2.547039	5	14.923560
1050510524	Resistor	R398	2.547039	1	3.541821
1050512414	Resistor	R193	2.547039	1	3.541821
1050513724	Resistor	R311,R869	2.547039	2	6.490186
1050515034	Resistor	R652,R662,R685	2.547039	3	9.343982
1050516034	Resistor	R197	2.547039	1	3.541821
1050516204	Resistor	R62	2.547039	1	3.541821
1050516934	Resistor	R661	2.547039	1	3.541821
1050516964	Resistor	R654	2.547039	1	3.541821
1050520034	Resistor	R256,R712,R715	2.547039	3	9.343982
1050521024	Resistor	R88	2.547039	1	3.541821
1050523264	Resistor	R66	2.547039	1	3.541821
1050524934	Resistor	R867	2.547039	1	3.541821
1050527424	Resistor	R621,R744	2.547039	2	6.490186

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1050529464	Resistor	R61	2.547039	1	3.541821
1050530004	Resistor	R752	2.547039	1	3.541821
1050530124	Resistor	R743	2.547039	1	3.541821
1050536514	Resistor	R879	2.547039	1	3.541821
1050540204	Resistor	R164,R184,R238	2.547039	3	9.343982
1050540214	Resistor	R188	2.547039	1	3.541821
1050540224	Resistor	R611	2.547039	1	3.541821
1050545364	Resistor	R202,R709	2.547039	2	6.490186
1050547564	Resistor	R187	2.547039	1	3.541821
1050561934	Resistor	R838	2.547039	1	3.541821
1050568124	Resistor	R252	2.547039	1	3.541821
1050573264	Resistor	R106,R117,R118	2.547039	3	9.343982
1050584524	Resistor	R73	2.547039	1	3.541821
1050700002	Resistor	R35,R739	2.547039	2	6.490186
1050708234	Resistor	R58	2.547039	1	3.541821
1050718034	Resistor	R844	2.547039	1	3.541821
1053500489	Resistor	R802	2.547039	1	3.541821
1054500689	Resistor	R843	2.547039	1	3.541821
1054700289	Resistor	R309,R510	2.547039	2	6.490186
1059520001	Resistor	R215	2.547039	1	3.541821
1059700001	Resistor	R336,R337	2.547039	2	6.490186
1059702261	Resistor	R403,R419	2.547039	2	6.490186
1059710001	Resistor	R249	2.547039	1	3.541821
105A500103	Resistor	R135,R247,R800	2.547039	3	9.343982
105A500139	Resistor	R15,R195,R196,R28,R51,R527,R538,R891	2.547039	8	23.134533

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105A500173	Resistor	R104,R121,R141,R154,R165,R166,R167,R183,R185,R199,R230,R231,R232,R64,R708,R71,R730,R732,R733,R734,R77,R78,R79,R82,R83,R95,R96	2.547039	27	73.758599
105A500239	Resistor	R31	2.547039	1	3.541821
105A501003	Resistor	R119,R763	2.547039	2	6.490186
105A501039	Resistor	R128,R348,R370,R65	2.547039	4	12.149228
105A501053	Resistor	R466,R856	2.547039	2	6.490186
105A501539	Resistor	R254,R471,R515	2.547039	3	9.343982
105A502039	Resistor	R127,R25,R26,R461,R547,R81	2.547039	6	17.675978
105A503039	Resistor	R198,R543,R55	2.547039	3	9.343982
105A505109	Resistor	R156,R157,R178,R179,R194	2.547039	5	14.923560
105A505629	Resistor	R597	2.547039	1	3.541821
105A506829	Resistor	R678	2.547039	1	3.541821
105A507533	Resistor	R840	2.547039	1	3.541821
105A510003	Resistor	R365,R380	2.547039	2	6.490186
105A510009	Resistor	R102,R111,R242,R762	2.547039	4	12.149228
105A510223	Resistor	R839	2.547039	1	3.541821
105A510723	Resistor	R319	2.547039	1	3.541821
105A510733	Resistor	R399	2.547039	1	3.541821
105A512039	Resistor	R458,R460	2.547039	2	6.490186
105A512123	Resistor	R807	2.547039	1	3.541821
105A512133	Resistor	R344	2.547039	1	3.541821

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105A515009	Resistor	R174,R34 9,R476, R477,R47 9,R727, R728,R72 9	2.547039	8	23.134533
105A518723	Resistor	R169,R59 4	2.547039	2	6.490186
105A529429	Resistor	R74	2.547039	1	3.541821
105A531623	Resistor	R318,R32 9	2.547039	2	6.490186
105A533223	Resistor	R808	2.547039	1	3.541821
105A533269	Resistor	R646	2.547039	1	3.541821
105A535703	Resistor	R737	2.547039	1	3.541821
105A540233	Resistor	R75	2.547039	1	3.541821
105A543033	Resistor	R155	2.547039	1	3.541821
105A544223	Resistor	R325	2.547039	1	3.541821
105A544229	Resistor	R836	2.547039	1	3.541821
105A547003	Resistor	R229,R24 8	2.547039	2	6.490186
105A547529	Resistor	R870	2.547039	1	3.541821
105A549919	Resistor	R447,R44 8,R455	2.547039	3	9.343982
105A549923	Resistor	R519	2.547039	1	3.541821
105A549969	Resistor	R115,R13 0,R142, R143,R14 4	2.547039	5	14.923560
105A561909	Resistor	R289,R29 1,R292, R295,R75 8,R766, R768,R77 1	2.547039	8	23.134533
105A564933	Resistor	R153	2.547039	1	3.541821
105A578733	Resistor	R595	2.547039	1	3.541821

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105A700003	Resistor	R123,R136,R140, R181,R27, R300,R317, R322,R345,R392, R420,R424,R49,R53 R544,R572,R731, R772,R80, R801,R816, R825,R826,R834, R835,R872,R98	2.547039	27	73.758599
105A700009	Resistor	R10,R103, R108,R11, R112,R125,R152, R158,R16, R190,R191, R200,R201,R213, R214,R216,R217, R218,R22, R225,R226, R227,R228,R234, R235,R236,R237, R243,R263,R264, R267,R268,R269, R273,R293,R294, R323,R33, R34,R346, R347,R354,R358, R408,R42, R421,R426, R43,R430, R44,	2.547039	124	326.523442

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105A700139	Resistor	R20,R23,R281,R283,R308,R316,R402,R413,R441,R528,R540,R549,R584,R716,R818,R820,R828,R837,R842	2.547039	19	52.578486
105A701009	Resistor	R865,R878	2.547039	2	6.490186
105A701039	Resistor	R1,R100,R101,R105,R114,R12,R146,R147,R148,R160,R161,R177,R170,R176,R177,R182,R189,R2,R204,R212,R220,R233,R239,R244,R255,R265,R285,R320,R342,R343,R359,R360,R367,R371,R372,R377,R378,R381,R382,R386,R391,R395,R396,R397,R40,R400,R401,R404,R405,R40	2.547039	132	347.239221
105A701059	Resistor	R208,R314,R548,R593,R829,R94	2.547039	6	17.675978
105A701069	Resistor	R697	2.547039	1	3.541821

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105A702039	Resistor	R13,R138, R14	2.547039	3	9.343982
105A702229	Resistor	R109,R12 0,R145, R205,R20 7,R259, R261,R27 5,R276, R453,R45 6,R635, R692,R69 5,R696, R710,R71 1,R713, R714,R71 9,R724,R8 9	2.547039	22	60.537875
105A702263	Resistor	R210	2.547039	1	3.541821
105A703309	Resistor	R412,R41 4,R561, R590,R61 0,R618, R625,R63 6,R637, R670,R67 9,R680, R784,R78 5	2.547039	14	39.250711
105A703329	Resistor	R351,R35 2,R353, R355,R35 6,R357, R803,R80 5,R852, R855	2.547039	10	28.506324
105A703363	Resistor	R286	2.547039	1	3.541821

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105A704729	Resistor	R134,R137,R151,R373,R389,R449,R450,R486,R516,R521,R532,R536,R537,R550,R551,R552,R555,R573,R640,R698,R699,R700,R701,R702,R703,R704,R705,R875,R881	2.547039	29	79.034138
105A705139	Resistor	R332,R333,R334,R335,R338,R339,R340,R341	2.547039	8	23.134533
105A708229	Resistor	R677,R686,R687	2.547039	3	9.343982
105A710009	Resistor	R374,R383,R388,R394,R439	2.547039	5	14.923560

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105A710039	Resistor	R186,R21, R250,R27 2, R277,R27 9,R280, R282,R28 4,R290, R297,R29 8,R299, R301,R30 2,R307, R315,R32 1,R327, R330,R42 7,R428, R429,R43 1,R432, R433,R43 4,R462, R489,R49 0,R499, R560,R57 1,R577, R578,R57 9,R581, R588,R60 3,R607, R626,R74 2,R747, R755,R75 7,R760, R764,R76 7,R	2.547039	58	155.039752
105A720009	Resistor	R168	2.547039	1	3.541821
105A730009	Resistor	R868	2.547039	1	3.541821
105A733009	Resistor	R410,R41 1,R468, R469,R47 0,R475, R819,R82 1,R858, R862	2.547039	10	28.506324
105A747009	Resistor	R18,R180, R278,R32, R59,R735, R741,R76 1, R792	2.547039	9	25.803491
106B510030	Resistor	RT1,RT2, RT3,RT4	2.547039	4	12.149228

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1121501691	Capacitor	C1,C102,C121,C129,C136,C143,C15,C16 C162,C163,C168,C169,C170,C179,C197,C20,C21,C214,C215,C216,C217,C218,C22,C228,C23,C230,C231,C232,C233,C234,C235,C24,C248,C249,C25,C250,C251,C253,C256,C257,C258,C259,C26,C260,C261,C262,C263,C264,C265,C268,C2	1.128806	241	276.421470
1124410191	Capacitor	C201,C202,C203,C204,C221,C222,C223,C224,C225,C226,C252,C255	1.128806	12	14.522865
1124418090	Capacitor	C509,C510,C557,C560	1.128806	4	5.079407
1124427091	Capacitor	C219,C220,C379,C380,C381,C382,C424,C425,C426	1.128806	9	11.005528
1124433190	Capacitor	C351	1.128806	1	1.418485
1124522680	Capacitor	C367,C368	1.128806	2	2.664608

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1124533282	Capacitor	C315	1.128806	1	1.418485
1129622690	Capacitor	C104,C131,C132,C2	1.128806	14	16.858773
		C42,C442,C456,C457,C480,C489,C490,C70,C75,C81			
1129701791	Capacitor	C110,C115,C137,C145,C182,C191,C240,C241,C242,C243,C275,C305,C345,C355,C506,C516,C541,C656,C72	1.128806	19	22.676921
1129710091	Capacitor	C420,C421,C422,C529,C669	1.128806	5	6.274805
1129710391	Capacitor	C310,C327,C328,C334,C335,C472,C482,C665	1.128806	8	9.828323
1181633190	Capacitor	C324	4.744484	1	6.263191
1189610151	Capacitor	C595	4.744484	1	6.263191
1189610153	Capacitor	C462	4.744484	1	6.263191
1189615151	Capacitor	TC6,TC7	4.744484	2	11.621225
1189615154	Capacitor	TC3,TC4,TC5	4.744484	3	16.835266
1189622154	Capacitor	TC17,TC18	4.744484	2	11.621225
1189633151	Capacitor	TC1,TC19,TC2,TC8,TC9	4.744484	5	27.067865
1189933180	Capacitor	TC10,TC11,TC12,TC15,TC16	4.744484	5	27.067865
11C1539840	Capacitor	C363,C364	1.128806	2	2.664608

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11C4501050	Capacitor	C326,C417	1.128806	2	2.664608
11C4501380	Capacitor	C390	1.128806	1	1.418485
11C4501650	Capacitor	C348,C393,C399,C415,C677	1.128806	5	6.274805
11C4515290	Capacitor	C678	1.128806	1	1.418485
11C4522290	Capacitor	C181,C237,C361,C377,C635,C68	1.128806	6	7.463816
11C4547190	Capacitor	C337,C341,C369,C370,C371,C372,C373,C374,C385,C408,C418,C419,C545,C546,C547,C549,C550,C551,C552,C553,C640,C641,C643,C644	1.128806	24	28.473303
11C4547290	Capacitor	C636	1.128806	1	1.418485
11C4547690	Capacitor	C386,C673	1.128806	2	2.664608
11E1501040	Capacitor	C637	1.128806	1	1.418485
11E1510050	Capacitor	C19,C254,C321,C331,C352,C356,C580,C660,C674	1.128806	9	11.005528
11E1522680	Capacitor	C525,C558	1.128806	2	2.664608
11E1533780	Capacitor	C520	1.128806	1	1.418485
11E2501690	Capacitor	C246,C322,C347,C378,C576,C592,C598,C651,C671	1.128806	9	11.005528

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11E2510010	Capacitor	C100,C24 5,C317, C394,C56 4,C566, C567,C56 8,C599, C600,C60 1,C606, C679,C97, C98,C99	1.128806	16	19.189261
11E2522630	Capacitor	C358	1.128806	1	1.418485
11E2622020	Capacitor	C329,C33 0,C650, C652	1.128806	4	5.079407
11E2647650	Capacitor	C647	1.128806	1	1.418485
11E4433090	Capacitor	C247,C39 8,C400, C414,C41 6,C459, C521,C57 9	1.128806	8	9.828323
11E4501030	Capacitor	C376	1.128806	1	1.418485
11E4510020	Capacitor	C396,C66 7,C672	1.128806	3	3.883281

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11E9501091	Capacitor	C103,C105,C106,C107,C109,C111,C112,C114,C116,C117,C118,C119,C120,C122,C123,C124,C125,C130,C14,C142,C147,C148,C150,C151,C152,C157,C158,C164,C165,C166,C17,C171,C172,C173,C174,C175,C176,C177,C178,C180,C184,C185,C186,C187,C188,C189,C190,C19	1.128806	99	114.558563
11E9510050	Capacitor	C101,C127,C194,C195,C236,C266,C323,C325,C395,C428,C48,C484,C488,C531,C537,C569,C596,C627	1.128806	18	21.515320
11E9522790	Capacitor	C167,C18,C392,C522,C83	1.128806	5	6.274805

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11E9547630	Capacitor	C133,C135,C144,C281,C423	1.128806	5	6.274805
11E9547790	Capacitor	C108,C314	1.128806	2	2.664608
11E9610080	Capacitor	C10,C11,C12,C134,C146,C27,C273,C276,C286,C296,C307,C32,C34,C35,C359,C360,C39,C4,C41,C427,C449,C458,C460,C461,C479,C491,C493,C501,C523,C575,C577,C629,C646,C653,C654,C663,C664,C7,C85,C95,C96	1.128806	41	48.087311
11E9622052	Capacitor	C113,C126,C138,C139,C140,C141,C193,C199,C209,C227,C244,C269,C270,C313,C387,C43,C452,C517,C518,C565,C570,C588,C77,C78,C79	1.128806	25	29.630606
11E9647690	Capacitor	C530	1.128806	1	1.418485
11E9722090	Capacitor	C540	1.128806	1	1.418485
11EB610050	Capacitor	C295	1.128806	1	1.418485

File Name: OMNI-3105-BT.rfp
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Failure Rate: 8690.311662
MTBF (hrs): 115,071
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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11EB647020	Capacitor	C29,C311, C375	1.128806	3	3.883281
121110156R	Inductor	L6	4.944252	1	6.461578
121110156Z	Inductor	L9	4.944252	1	6.461578
121110226M	Inductor	L5	4.944252	1	6.461578
1211104270	Inductor	L1,L2	4.944252	2	12.019077
1211115076	Inductor	L3	4.944252	1	6.461578
1211122070	Inductor	L7	4.944252	1	6.461578
1211122071	Inductor	L4	4.944252	1	6.461578
121113307A	Inductor	L8	4.944252	1	6.461578
1212306030	Inductor	FB20,FB2 1,FB36, FB40,FB4 2,FB44,FB 5, FB6,FB7	4.944252	9	48.914484
1212308054	Inductor	FB1,FB22, FB26,FB2 7, FB3,FB4,F B9	4.944252	7	38.504501
12123A0009	Inductor	FB17,FB1 8,FB19, FB23,FB3 8,FB39, FB41,FB4 3	4.944252	8	43.717664
12123D0001	Inductor	FB11,FB1 2,FB13, FB14,FB1 5,FB16, FB24,FB2 5,FB28, FB29,FB3 0,FB31, FB32,FB3 3,FB34	4.944252	15	79.865089
1214109000	Inductor	CH12,CH2 2,CH24,C H9	4.944252	4	22.772366
1214309009	Inductor	CH14,CH1 5,CH18, CH19,CH6 ,CH8	4.944252	6	33.271337
1231324056	Miscellaneous	Y5	19.200000	1	41.938810
123132505D	Miscellaneous	Y1,Y2,Y3	19.200000	3	174.140039
1231332726	Miscellaneous	Y7	19.200000	1	41.938810
12330024A1	Miscellaneous	Y6	19.200000	1	41.938810
1300041480	Semiconductor	D24,D25	7.793411	2	19.771405
1301003440	Semiconductor	D27,D29	7.793411	2	19.771405

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1301013040	Semiconductor	D31	7.793411	1	10.775013
1301053040	Semiconductor	D1	7.793411	1	10.775013
1301075140	Semiconductor	D3,D4	7.793411	2	19.771405
1301400640	Semiconductor	D21	7.793411	1	10.775013
1301400642	Semiconductor	D23	7.793411	1	10.775013
1301793040	Semiconductor	D20,D22, D30	7.793411	3	28.484462
1302052320	Semiconductor	D28	7.793411	1	10.775013
1304000043	Optical Device	LED4	79.003355	1	153.913100
1304300140	Optical Device	LED1,LED 2	79.003355	2	264.289989
1304500240	Optical Device	LED3	79.003355	1	153.913100
1305080040	Semiconductor	D10,D11, D12,D13, D14,D15, D16,D17, D18,D19, D26,D5,D 6, D7,D8,D9	7.793411	16	136.209751
130533CA40	Semiconductor	D32	7.793411	1	10.775013
1310390410	Semiconductor	Q44	22.463360	1	31.602965
1310390413	Semiconductor	Q40,Q41	22.463360	2	57.753076
1311390612	Semiconductor	Q39,Q6	22.463360	2	57.753076
131411171G	Semiconductor	U68	22.463360	1	31.602965
13150123N0	Semiconductor	Q42,Q43	22.463360	2	57.753076
1315015530	Semiconductor	Q64,Q65, Q66	22.463360	3	83.033515
1315035110	Semiconductor	Q57	22.463360	1	31.602965
1315036640	Semiconductor	Q9	22.463360	1	31.602965
1315086540	Semiconductor	Q70,Q71	22.463360	2	57.753076
1315230511	Semiconductor	Q24,Q25, Q26,Q32, Q58,Q59	22.463360	6	156.767054
1315443512	Semiconductor	Q29	22.463360	1	31.602965
1315700216	Semiconductor	Q19,Q30, Q37,Q48, Q49	22.463360	5	132.418067
1315720010	Semiconductor	Q27,Q38, Q60	22.463360	3	83.033515
1315762010	Semiconductor	Q50	22.463360	1	31.602965
1315971500	Semiconductor	U26,U29	22.463360	2	57.753076
1315D4C500	Semiconductor	Q62,Q67	22.463360	2	57.753076

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1315EM6K10	Semiconductor	Q10,Q11, Q12,Q13, Q14,Q15, Q16,Q17, Q18,Q2,Q 20,Q21,Q 22, Q23,Q28, Q34,Q35, Q36,Q51, Q52,Q53, Q56,Q61, Q68,Q7,Q 8	22.463360	26	628.983176
1430455200	Integrated Circuit	U12,U17, U25,U3,U 6, U63,U71	43.803003	7	415.191054
1430532190	Integrated Circuit	U76	43.803003	1	85.184662
1430973740	Integrated Circuit	U10	43.803003	1	85.184662
143S596410	Integrated Circuit	U55	43.803003	1	85.184662
1440211AT0	Integrated Circuit	U30,U31	43.803003	2	146.310248
1440J19000	Integrated Circuit	U56	21.706765	1	42.213622
1490011840	Integrated Circuit	U43	43.803003	1	85.184662
149TB01040	Integrated Circuit	U72	43.803003	1	85.184662
149TS01040	Integrated Circuit	U57,U70	43.803003	2	146.310248
14S2200900	Integrated Circuit	U37	43.803003	1	85.184662
14S2432600	Integrated Circuit	U23	43.803003	1	85.184662
14S3010700	Integrated Circuit	U11,U50	43.803003	2	146.310248
14S3104500	Integrated Circuit	U13,U19, U35,U69, U73,U74	43.803003	6	363.508251
14S3111701	Integrated Circuit	U79	43.803003	1	85.184662
14S3112400	Integrated Circuit	U21	43.803003	1	85.184662
14S3121600	Integrated Circuit	U8	43.803003	1	85.184662
14S3378900	Integrated Circuit	U28	43.803003	1	85.184662
14S3435600	Integrated Circuit	U36	43.803003	1	85.184662
14S3524700	Integrated Circuit	U65	43.803003	1	85.184662
14S3902500	Integrated Circuit	U14,U39, U64	43.803003	3	203.118269
14S4186600	Integrated Circuit	U45	43.803003	1	85.184662
14S4251701	Integrated Circuit	U54	43.803003	1	85.184662
14S4600004	Integrated Circuit	U75	43.803003	1	85.184662
14S4751100	Integrated Circuit	U53	43.803003	1	85.184662
14S4814380	Integrated Circuit	U34	43.803003	1	85.184662
14S5A00704	Integrated Circuit	U24,U47	26.018600	2	70.451049
14S5A00802	Integrated Circuit	U4,U48	26.018600	2	70.451049
14S5A00821	Integrated Circuit	U22,U49, U9	26.018600	3	100.507298

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14S5A30601	Integrated Circuit	U15,U59, U60	26.018600	3	100.507298
14S5A73200	Integrated Circuit	U46,U51	26.018600	2	70.451049
14S6206403	Integrated Circuit	U27	43.803003	1	85.184662
14S9108500	Integrated Circuit	U41,U44	43.803003	2	146.310248
14S9346000	Integrated Circuit	U67	43.803003	1	85.184662
1540722281	Resistor	RP2	9.971436	1	19.377251
1601613200	Connection	PW1	16.184835	1	28.022514
16515A2990	Connection	CN8	16.184835	1	28.022514
1652003101	Connection	CN39	16.184835	1	28.022514
1652514212	Connection	CN37,CN3 8	16.184835	2	49.043282
165300210C	Connection	JP2	16.184835	1	28.022514
165300310G	Connection	JP1,JP3,JP 4,JP5, JP6,JP8	16.184835	6	125.647199
165300320K	Connection	JP7,JP9	16.184835	2	49.043282
165300420Q	Connection	CN30	16.184835	1	28.022514
1653300107	Connection	JP5(1- 2),JP6(1- 2), JP7(3- 4),JP9(3- 4)	16.184835	4	88.145664
1653300108	Connection	JP1(1-2)	16.184835	1	28.022514
165330010E	Connection	JP3(1- 2),JP4(2- 3), JP8(2- 3)	16.184835	3	68.890067
165390003B	Connection	M3	16.184835	1	28.022514
1653924110	Connection	CN10	16.184835	1	28.022514
1654004010	Connection	CN11	16.184835	1	28.022514
1654030003	Connection	CN21	16.184835	1	28.022514
1654226303	Connection	CN18,CN3	16.184835	2	49.043282
1654401935	Connection	CN22	16.184835	1	28.022514
1654409103	Connection	CN40	16.184835	1	28.022514
1654415308	Connection	CN41	16.184835	1	28.022514
1654801330	Connection	CN28	16.184835	1	28.022514
1654808309	Connection	CN32	16.184835	1	28.022514
1654900232	Connection	CN43	16.184835	1	28.022514
1654900703	Connection	CN20	16.184835	1	28.022514
1654903901	Connection	CN9	16.184835	1	28.022514
1655302025	Connection	CN19	16.184835	1	28.022514
1655305025	Connection	CN17	16.184835	1	28.022514
1655902034	Connection	CN6	16.184835	1	28.022514
1655909035	Connection	CN29	16.184835	1	28.022514
1655912032	Connection	CN4	16.184835	1	28.022514
175011301C	Miscellaneous	M1	306.000000	1	594.642389
1752000501	Miscellaneous	FS2,FS3	2.400000	2	6.947111

**Reliability Prediction
Summary**

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1752001603	Miscellaneous	FS1,FS5,F S8,FS9	2.400000	4	12.613222
1752001900	Miscellaneous	FS6,FS7	2.400000	2	6.947111
175910000B	Connection	BZ1	16.184835	1	28.022514