

OMNI-3155-BT

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 16.598270 ppm MTBF: 60,247 Hours
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Issue date

QE Manager

Test Engineer

2016/09/01

KJ Wang

Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: OMNI-3155-BT

II . Prediction Date: Sep. 1, 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-3155-BT(9697BT0309-D):

- Failure Rate: 16.598270 ppm
- MTBF: 60,247 Hours

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

- MITSUBISHI.AC150XA02.1024*768.18&24 Bits 1ch lvds

**AAEON Reliability Prediction
Summary**

File Name: OMNI-3155-BT.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 1
Method: Method I Case 3

Failure Rate: 16.598270
MTBF (hrs): 60,247
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
OMNI-3155-BT	System		1	16.598270	60,247

File Name: OMNI-3155-BT.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 16.598270
MTBF (hrs): 60,247
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501234	Resistor	R525,R568,R604		0.002497	3	133488349.776718
1050501834	Resistor	R209		0.002497	1	400465049.330154
1050502004	Resistor	R513,R514,R522, R523,R569,R570, R647,R663		0.002497	8	50058131.166269
1050502734	Resistor	R253,R882		0.002497	2	200232524.665077
1050503634	Resistor	R324		0.002497	1	400465049.330154
1050503934	Resistor	R163,R596,R600, R690		0.002497	4	100116262.332539
1050504724	Resistor	R24,R3,R4,R493, R494,R60,R70		0.002497	7	57209292.761451
1050504734	Resistor	R251,R296		0.002497	2	200232524.665077
1050505124	Resistor	R129,R288		0.002497	2	200232524.665077
1050505134	Resistor	R306,R580,R612		0.002497	3	133488349.776718
1050505633	Resistor	R139,R845		0.002497	2	200232524.665077
1050507524	Resistor	R287,R393		0.002497	2	200232524.665077
1050510034	Resistor	R459,R473,R63,R69, R76		0.002497	5	80093009.866031
1050510524	Resistor	R398		0.002497	1	400465049.330154
1050512414	Resistor	R193		0.002497	1	400465049.330154
1050513724	Resistor	R311,R869		0.002497	2	200232524.665077
1050515034	Resistor	R652,R662,R685		0.002497	3	133488349.776718
1050516034	Resistor	R197		0.002497	1	400465049.330154
1050516204	Resistor	R62		0.002497	1	400465049.330154
1050516934	Resistor	R661		0.002497	1	400465049.330154
1050516964	Resistor	R654		0.002497	1	400465049.330154
1050520034	Resistor	R256,R712,R715		0.002497	3	133488349.776718
1050521024	Resistor	R88		0.002497	1	400465049.330154
1050523264	Resistor	R66		0.002497	1	400465049.330154
1050524934	Resistor	R867		0.002497	1	400465049.330154
1050527424	Resistor	R621,R744		0.002497	2	200232524.665077
1050529464	Resistor	R61		0.002497	1	400465049.330154
1050530004	Resistor	R752		0.002497	1	400465049.330154
1050530124	Resistor	R743		0.002497	1	400465049.330154
1050536514	Resistor	R879		0.002497	1	400465049.330154
1050540204	Resistor	R164,R184,R238		0.002497	3	133488349.776718
1050540214	Resistor	R188		0.002497	1	400465049.330154
1050540224	Resistor	R611		0.002497	1	400465049.330154
1050545364	Resistor	R202,R709		0.002497	2	200232524.665077

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1050547564	Resistor	R187		0.002497	1	400465049.330154
1050561934	Resistor	R838		0.002497	1	400465049.330154
1050568124	Resistor	R252		0.002497	1	400465049.330154
1050573264	Resistor	R106,R117,R118		0.002497	3	133488349.776718
1050584524	Resistor	R73		0.002497	1	400465049.330154
1050700002	Resistor	R35,R739		0.002497	2	200232524.665077
1050708234	Resistor	R58		0.002497	1	400465049.330154
1050718034	Resistor	R844		0.002497	1	400465049.330154
1053500489	Resistor	R802		0.002497	1	400465049.330154
1054500689	Resistor	R843		0.002497	1	400465049.330154
1054700289	Resistor	R309,R510		0.002497	2	200232524.665077
1059520001	Resistor	R215		0.002497	1	400465049.330154
1059700001	Resistor	R336,R337		0.002497	2	200232524.665077
1059702261	Resistor	R403,R419		0.002497	2	200232524.665077
1059710001	Resistor	R249		0.002497	1	400465049.330154
105A500103	Resistor	R135,R247,R800		0.002497	3	133488349.776718
105A500139	Resistor	R15,R195,R196,R28,R51,R527,R538,R891		0.002497	8	50058131.166269
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		0.002497	27	14832038.864080
105A500239	Resistor	R31		0.002497	1	400465049.330154
105A501003	Resistor	R119,R763		0.002497	2	200232524.665077
105A501039	Resistor	R128,R348,R370,R65		0.002497	4	100116262.332539
105A501053	Resistor	R466,R856		0.002497	2	200232524.665077
105A501539	Resistor	R254,R471,R515		0.002497	3	133488349.776718
105A502039	Resistor	R127,R25,R26,R461,R547,R81		0.002497	6	66744174.888359

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105A503039	Resistor	R198,R543,R55		0.002497	3	133488349.776718
105A505109	Resistor	R156,R157,R178,R179,R194		0.002497	5	80093009.866031
105A505629	Resistor	R597		0.002497	1	400465049.330154
105A506829	Resistor	R678		0.002497	1	400465049.330154
105A507533	Resistor	R840		0.002497	1	400465049.330154
105A510003	Resistor	R365,R380		0.002497	2	200232524.665077
105A510009	Resistor	R102,R111,R242, R762		0.002497	4	100116262.332539
105A510223	Resistor	R839		0.002497	1	400465049.330154
105A510723	Resistor	R319		0.002497	1	400465049.330154
105A510733	Resistor	R399		0.002497	1	400465049.330154
105A512039	Resistor	R458,R460		0.002497	2	200232524.665077
105A512123	Resistor	R807		0.002497	1	400465049.330154
105A512133	Resistor	R344		0.002497	1	400465049.330154
105A515009	Resistor	R174,R349,R476,R477,R479,R727,R728,R729		0.002497	8	50058131.166269
105A518723	Resistor	R169,R594		0.002497	2	200232524.665077
105A529429	Resistor	R74		0.002497	1	400465049.330154
105A531623	Resistor	R318,R329		0.002497	2	200232524.665077
105A533223	Resistor	R808		0.002497	1	400465049.330154
105A533269	Resistor	R646		0.002497	1	400465049.330154
105A535703	Resistor	R737		0.002497	1	400465049.330154
105A540233	Resistor	R75		0.002497	1	400465049.330154
105A543033	Resistor	R155		0.002497	1	400465049.330154
105A544223	Resistor	R325		0.002497	1	400465049.330154
105A544229	Resistor	R836		0.002497	1	400465049.330154
105A547003	Resistor	R229,R248		0.002497	2	200232524.665077
105A547529	Resistor	R870		0.002497	1	400465049.330154
105A549919	Resistor	R447,R448,R455		0.002497	3	133488349.776718
105A549923	Resistor	R519		0.002497	1	400465049.330154
105A549969	Resistor	R115,R130,R142,R143,R144		0.002497	5	80093009.866031
105A561909	Resistor	R289,R291,R292,R295,R758,R766,R768,R771		0.002497	8	50058131.166269
105A564933	Resistor	R153		0.002497	1	400465049.330154
105A578733	Resistor	R595		0.002497	1	400465049.330154

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
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		0.002497	27	14832038.864080
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,R334,R346, R347,R354,R358, R408,R42,R421,R426, R43,R430,R44		0.002497	124	3229556.849437

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105A700139	Resistor	R20,R23,R28 1,R283, R308,R316,R 402, R413,R441,R 528, R540,R549,R 584, R716,R818,R 820, R828,R837,R 842		0.002497	19	21077107.859482
105A701009	Resistor	R865,R878		0.002497	2	200232524.665077
105A701039	Resistor	R1,R100,R10 1,R105, R114,R12,R1 46,R147, R148,R160,R 161,R17, R170,R176,R 177, R182,R189,R 2,R204, R212,R220,R 233, R239,R244,R 255, R265,R285,R 320, R342,R343,R 359, R360,R367,R 371, R372,R377,R 378, R381,R382,R 386, R391,R395,R 396, R397,R40,R4 00,R401, R404,R405,R 40		0.002497	132	3033826.131289
105A701059	Resistor	R208,R314,R 548, R593,R829,R 94		0.002497	6	66744174.888359
105A701069	Resistor	R697		0.002497	1	400465049.330154
105A702039	Resistor	R13,R138,R1 4		0.002497	3	133488349.776718

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105A702229	Resistor	R109,R120,R145, R205,R207,R259, R261,R275,R276, R453,R456,R635, R692,R695,R696, R710,R711,R713, R714,R719,R724,R89		0.002497	22	18202956.787734
105A702263	Resistor	R210		0.002497	1	400465049.330154
105A703309	Resistor	R412,R414,R561, R590,R610,R618, R625,R636,R637, R670,R679,R680, R784,R785		0.002497	14	28604646.380725
105A703329	Resistor	R351,R352,R353, R355,R356,R357, R803,R805,R852, R855		0.002497	10	40046504.933015
105A703363	Resistor	R286		0.002497	1	400465049.330154
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		0.002497	29	13809139.632074

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A705139	Resistor	R332,R333,R334, R335,R338,R339, R340,R341		0.002497	8	50058131.166269
105A708229	Resistor	R677,R686,R687		0.002497	3	133488349.776718
105A710009	Resistor	R374,R383,R388, R394,R439		0.002497	5	80093009.866031
105A710039	Resistor	R186,R21,R250,R272, R277,R279,R280, R282,R284,R290, R297,R298,R299, R301,R302,R307, R315,R321,R327, R330,R427,R428, R429,R431,R432, R433,R434,R462, R489,R490,R499, R560,R571,R577, R578,R579,R581, R588,R603,R607, R626,R742,R747, R755,R757,R760, R764,R767,R		0.002497	58	6904569.816037
105A720009	Resistor	R168		0.002497	1	400465049.330154
105A730009	Resistor	R868		0.002497	1	400465049.330154
105A733009	Resistor	R410,R411,R468, R469,R470,R475, R819,R821,R858, R862		0.002497	10	40046504.933015

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105A747009	Resistor	R18,R180,R278,R32,R59,R735,R741,R761,R792		0.002497	9	44496116.592239
106B510030	Resistor	RT1,RT2,RT3,RT4		0.002497	4	100116262.332539
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		0.005644	241	735179.967888
1124410191	Capacitor	C201,C202,C203,C204,C221,C222,C223,C224,C225,C226,C252,C255		0.005644	12	14764864.355094
1124418090	Capacitor	C509,C510,C557,C560		0.005644	4	44294593.065281
1124427091	Capacitor	C219,C220,C379,C380,C381,C382,C424,C425,C426		0.005644	9	19686485.806792
1124433190	Capacitor	C351		0.005644	1	177178372.261125

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1124522680	Capacitor	C367,C368		0.005644	2	88589186.130563
1124533282	Capacitor	C315		0.005644	1	177178372.261125
1129622690	Capacitor	C104,C131,C132,C2,C42,C442,C456,C457,C480,C489,C490,C70,C75,C81		0.005644	14	12655598.018652
1129701791	Capacitor	C110,C115,C137,C145,C182,C191,C240,C241,C242,C243,C275,C305,C345,C355,C506,C516,C541,C656,C72		0.005644	19	9325177.487428
1129710091	Capacitor	C420,C421,C422,C529,C669		0.005644	5	35435674.452225
1129710391	Capacitor	C310,C327,C328,C334,C335,C472,C482,C665		0.005644	8	22147296.532641
1181633190	Capacitor	C324		0.004994	1	200232524.665077
1189610151	Capacitor	C595		0.004994	1	200232524.665077
1189610153	Capacitor	C462		0.004994	1	200232524.665077
1189615151	Capacitor	TC6,TC7		0.004994	2	100116262.332539
1189615154	Capacitor	TC3,TC4,TC5		0.004994	3	66744174.888359
1189622154	Capacitor	TC17,TC18		0.004994	2	100116262.332539
1189633151	Capacitor	TC1,TC19,TC2,TC8,TC9		0.004994	5	40046504.933015
1189933180	Capacitor	TC10,TC11,TC12,TC15,TC16		0.004994	5	40046504.933015
11C1539840	Capacitor	C363,C364		0.005644	2	88589186.130563
11C4501050	Capacitor	C326,C417		0.005644	2	88589186.130563
11C4501380	Capacitor	C390		0.005644	1	177178372.261125
11C4501650	Capacitor	C348,C393,C399,C415,C677		0.005644	5	35435674.452225
11C4515290	Capacitor	C678		0.005644	1	177178372.261125

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11C4522290	Capacitor	C181,C237,C361, C377,C635,C68		0.005644	6	29529728.710188
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		0.005644	24	7382432.177547
11C4547290	Capacitor	C636		0.005644	1	177178372.261125
11C4547690	Capacitor	C386,C673		0.005644	2	88589186.130563
11E1501040	Capacitor	C637		0.005644	1	177178372.261125
11E1510050	Capacitor	C19,C254,C321,C331, C352,C356,C580, C660,C674		0.005644	9	19686485.806792
11E1522680	Capacitor	C525,C558		0.005644	2	88589186.130563
11E1533780	Capacitor	C520		0.005644	1	177178372.261125
11E2501690	Capacitor	C246,C322,C347, C378,C576,C592, C598,C651,C671		0.005644	9	19686485.806792
11E2510010	Capacitor	C100,C245,C317, C394,C564,C566, C567,C568,C599, C600,C601,C606, C679,C97,C98,C99		0.005644	16	11073648.266320
11E2522630	Capacitor	C358		0.005644	1	177178372.261125
11E2622020	Capacitor	C329,C330,C650, C652		0.005644	4	44294593.065281
11E2647650	Capacitor	C647		0.005644	1	177178372.261125

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11E4433090	Capacitor	C247,C398,C400, C414,C416,C459, C521,C579		0.005644	8	22147296.532641
11E4501030	Capacitor	C376		0.005644	1	177178372.261125
11E4510020	Capacitor	C396,C667,C672		0.005644	3	59059457.420375
11E9501091	Capacitor	C103,C105,C106, C107,C109,C111, C112,C114,C116, C117,C118,C119, C120,C122,C123, C124,C125,C13,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		0.005644	99	1789680.527890
11E9510050	Capacitor	C101,C127,C194, C195,C236,C266, C323,C325,C395, C428,C48,C484,C488, C531,C537,C569, C596,C627		0.005644	18	9843242.903396
11E9522790	Capacitor	C167,C18,C392,C522, C83		0.005644	5	35435674.452225

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Assembly: System
Ref Des:
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Failure Rate: 16.598270
MTBF (hrs): 60,247
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9547630	Capacitor	C133,C135,C144, C281,C423		0.005644	5	35435674.452225
11E9547790	Capacitor	C108,C314		0.005644	2	88589186.130563
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		0.005644	41	4321423.713686
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		0.005644	25	7087134.890445
11E9647690	Capacitor	C530		0.005644	1	177178372.261125
11E9722090	Capacitor	C540		0.005644	1	177178372.261125
11EB610050	Capacitor	C295		0.005644	1	177178372.261125
11EB647020	Capacitor	C29,C311,C375		0.005644	3	59059457.420375
121110156R	Inductor	L6		0.002497	1	400465049.330154
121110156Z	Inductor	L9		0.002497	1	400465049.330154
121110226M	Inductor	L5		0.002497	1	400465049.330154
1211104270	Inductor	L1,L2		0.002497	2	200232524.665077
1211115076	Inductor	L3		0.002497	1	400465049.330154

File Name: OMNI-3155-BT.rfp
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Failure Rate: 16.598270
MTBF (hrs): 60,247
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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1211122070	Inductor	L7		0.002497	1	400465049.330154
1211122071	Inductor	L4		0.002497	1	400465049.330154
121113307A	Inductor	L8		0.002497	1	400465049.330154
1212306030	Inductor	FB20,FB21,F B36, FB40,FB42,F B44,FB5, FB6,FB7		0.002497	9	44496116.592239
1212308054	Inductor	FB1,FB22,FB 26,FB27, FB3,FB4,FB9		0.002497	7	57209292.761451
12123A0009	Inductor	FB17,FB18,F B19, FB23,FB38,F B39, FB41,FB43		0.002497	8	50058131.166269
12123D0001	Inductor	FB11,FB12,F B13, FB14,FB15,F B16, FB24,FB25,F B28, FB29,FB30,F B31, FB32,FB33,F B34		0.002497	15	26697669.955344
1214109000	Inductor	CH12,CH22,C H24,CH9		0.002497	4	100116262.332539
1214309009	Inductor	CH14,CH15,C H18, CH19,CH6,C H8		0.002497	6	66744174.888359
1231324056	Miscellaneous	Y5		0.150000	1	6666666.666667
123132505D	Miscellaneous	Y1,Y2,Y3		0.150000	3	2222222.222222
1231332726	Miscellaneous	Y7		0.150000	1	6666666.666667
12330024A1	Miscellaneous	Y6		0.150000	1	6666666.666667
1300041480	Semiconductor	D24,D25		0.027506	2	18177749.665892
1301003440	Semiconductor	D27,D29		0.027506	2	18177749.665892
1301013040	Semiconductor	D31		0.027506	1	36355499.331785
1301053040	Semiconductor	D1		0.027506	1	36355499.331785
1301075140	Semiconductor	D3,D4		0.027506	2	18177749.665892
1301400640	Semiconductor	D21		0.027506	1	36355499.331785
1301400642	Semiconductor	D23		0.027506	1	36355499.331785
1301793040	Semiconductor	D20,D22,D30		0.027506	3	12118499.777262
1302052320	Semiconductor	D28		0.027506	1	36355499.331785
1304000043	Optical Device	LED4		0.152910	1	6539806.665930
1304300140	Optical Device	LED1,LED2		0.152910	2	3269903.332965
1304500240	Optical Device	LED3		0.152910	1	6539806.665930

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Failure Rate: 16.598270
MTBF (hrs): 60,247
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1305080040	Semiconductor	D10,D11,D12 ,D13, D14,D15,D16 ,D17, D18,D19,D26 ,D5,D6, D7,D8,D9		0.027506	16	2272218.708237
130533CA40	Semiconductor	D32		0.027506	1	36355499.331785
1310390410	Semiconductor	Q44		0.027506	1	36355499.331785
1310390413	Semiconductor	Q40,Q41		0.027506	2	18177749.665892
1311390612	Semiconductor	Q39,Q6		0.027506	2	18177749.665892
131411171G	Semiconductor	U68		0.027506	1	36355499.331785
13150123N0	Semiconductor	Q42,Q43		0.027506	2	18177749.665892
1315015530	Semiconductor	Q64,Q65,Q6 6		0.027506	3	12118499.777262
1315035110	Semiconductor	Q57		0.027506	1	36355499.331785
1315036640	Semiconductor	Q9		0.027506	1	36355499.331785
1315086540	Semiconductor	Q70,Q71		0.027506	2	18177749.665892
1315230511	Semiconductor	Q24,Q25,Q2 6,Q32, Q58,Q59		0.027506	6	6059249.888631
1315443512	Semiconductor	Q29		0.027506	1	36355499.331785
1315700216	Semiconductor	Q19,Q30,Q3 7,Q48, Q49		0.027506	5	7271099.866357
1315720010	Semiconductor	Q27,Q38,Q6 0		0.027506	3	12118499.777262
1315762010	Semiconductor	Q50		0.027506	1	36355499.331785
1315971500	Semiconductor	U26,U29		0.027506	2	18177749.665892
1315D4C500	Semiconductor	Q62,Q67		0.027506	2	18177749.665892
1315EM6K10	Semiconductor	Q10,Q11,Q1 2,Q13, Q14,Q15,Q1 6,Q17, Q18,Q2,Q20, Q21,Q22, Q23,Q28,Q3 4,Q35, Q36,Q51,Q5 2,Q53, Q56,Q61,Q6 8,Q7,Q8		0.027506	26	1398288.435838
1430455200	Integrated Circuit	U12,U17,U25 ,U3,U6, U63,U71		0.085069	7	1679306.043564
1430532190	Integrated Circuit	U76		0.085069	1	11755142.304947
1430973740	Integrated Circuit	U10		0.085069	1	11755142.304947
143S596410	Integrated Circuit	U55		0.085069	1	11755142.304947
1440211AT0	Integrated Circuit	U30,U31		0.085069	2	5877571.152473
1440J19000	Integrated Circuit	U56		0.042271	1	23656842.333166

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Failure Rate: 16.598270
MTBF (hrs): 60,247
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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1490011840	Integrated Circuit	U43		0.085069	1	11755142.304947
149TB01040	Integrated Circuit	U72		0.085069	1	11755142.304947
149TS01040	Integrated Circuit	U57,U70		0.085069	2	5877571.152473
14S2200900	Integrated Circuit	U37		0.085069	1	11755142.304947
14S2432600	Integrated Circuit	U23		0.085069	1	11755142.304947
14S3010700	Integrated Circuit	U11,U50		0.085069	2	5877571.152473
14S3104500	Integrated Circuit	U13,U19,U35, U69, U73,U74		0.085069	6	1959190.384158
14S3111701	Integrated Circuit	U79		0.085069	1	11755142.304947
14S3112400	Integrated Circuit	U21		0.085069	1	11755142.304947
14S3121600	Integrated Circuit	U8		0.085069	1	11755142.304947
14S3378900	Integrated Circuit	U28		0.085069	1	11755142.304947
14S3435600	Integrated Circuit	U36		0.085069	1	11755142.304947
14S3524700	Integrated Circuit	U65		0.085069	1	11755142.304947
14S3902500	Integrated Circuit	U14,U39,U64		0.085069	3	3918380.768316
14S4186600	Integrated Circuit	U45		0.085069	1	11755142.304947
14S4251701	Integrated Circuit	U54		0.085069	1	11755142.304947
14S4600004	Integrated Circuit	U75		0.085069	1	11755142.304947
14S4751100	Integrated Circuit	U53		0.085069	1	11755142.304947
14S4814380	Integrated Circuit	U34		0.085069	1	11755142.304947
14S5A00704	Integrated Circuit	U24,U47		0.088164	2	5671266.008085
14S5A00802	Integrated Circuit	U4,U48		0.088164	2	5671266.008085
14S5A00821	Integrated Circuit	U22,U49,U9		0.088164	3	3780844.005390
14S5A30601	Integrated Circuit	U15,U59,U60		0.088164	3	3780844.005390
14S5A73200	Integrated Circuit	U46,U51		0.088164	2	5671266.008085
14S6206403	Integrated Circuit	U27		0.085069	1	11755142.304947
14S9108500	Integrated Circuit	U41,U44		0.085069	2	5877571.152473
14S9346000	Integrated Circuit	U67		0.085069	1	11755142.304947
1540722281	Resistor	RP2		0.019552	1	51146091.408551
1601613200	Connection	PW1		0.036784	1	27185943.669857
16515A2990	Connection	CN8		0.036784	1	27185943.669857
1652003101	Connection	CN39		0.036784	1	27185943.669857
1652514212	Connection	CN37,CN38		0.036784	2	13592971.834929
165300210C	Connection	JP2		0.036784	1	27185943.669857
165300310G	Connection	JP1,JP3,JP4,J P5, JP6,JP8		0.036784	6	4530990.611643
165300320K	Connection	JP7,JP9		0.036784	2	13592971.834929
165300420Q	Connection	CN30		0.036784	1	27185943.669857
1653300107	Connection	JP5(1-2),JP6 (1-2), JP7(3- 4),JP9(3-4)		0.036784	4	6796485.917464
1653300108	Connection	JP1(1-2)		0.036784	1	27185943.669857
165330010E	Connection	JP3(1-2),JP4 (2-3), JP8(2- 3)		0.036784	3	9061981.223286
165390003B	Connection	M3		0.036784	1	27185943.669857

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Assembly: System
Ref Des:
Description:

Failure Rate: 16.598270
MTBF (hrs): 60,247
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653924110	Connection	CN10		0.036784	1	27185943.669857
1654004010	Connection	CN11		0.036784	1	27185943.669857
1654030003	Connection	CN21		0.036784	1	27185943.669857
1654226303	Connection	CN18,CN3		0.036784	2	13592971.834929
1654401935	Connection	CN22		0.036784	1	27185943.669857
1654409103	Connection	CN40		0.036784	1	27185943.669857
1654415308	Connection	CN41		0.036784	1	27185943.669857
1654801330	Connection	CN28		0.036784	1	27185943.669857
1654808309	Connection	CN32		0.036784	1	27185943.669857
1654900232	Connection	CN43		0.036784	1	27185943.669857
1654900703	Connection	CN20		0.036784	1	27185943.669857
1654903901	Connection	CN9		0.036784	1	27185943.669857
1655302025	Connection	CN19		0.036784	1	27185943.669857
1655305025	Connection	CN17		0.036784	1	27185943.669857
1655902034	Connection	CN6		0.036784	1	27185943.669857
1655909035	Connection	CN29		0.036784	1	27185943.669857
1655912032	Connection	CN4		0.036784	1	27185943.669857
175011301C	Miscellaneous	M1		0.600000	1	1666666.666667
1752000501	Miscellaneous	FS2,FS3		0.003000	2	166666666.666667
1752001603	Miscellaneous	FS1,FS5,FS8, FS9		0.003000	4	83333333.333333
1752001900	Miscellaneous	FS6,FS7		0.003000	2	166666666.666667
175910000B	Connection	BZ1		0.036784	1	27185943.669857