

EPIC-BDU7

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 15746.242847 ppm MTBF: 63,507 Hours
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Issue date	Approval	Test Engineer
2015/06/18	KJ Wang	Max Chang

Reliability Prediction (MTBF)

I . Model Name: EPIC-BDU7

II . Prediction Date: June, 18, 2015

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

IV . Predicted by: Max Chang

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:

EPIC-BDU7 (9697BDU703-D):

- Failure Rate: 15746.24287 ppm
- MTBF: 63,507 Hours

**AAEON Reliability Prediction
Summary**

File Name: EPIC-BDU7.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 15746.242847
MTBF (hrs): 63,507
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
EPIC-BDU7	9697BDU703-D		1	15746.242847	63,507

File Name: EPIC-BDU7.rfp
Assembly: 9697BDU703-D
Ref Des:
Description:

Failure Rate: 15746.242847
MTBF (hrs): 63,507
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501004	Resistor	R533		2.547039	1	282340674.079668
1050501234	Resistor	R385,R408		2.547039	2	154078778.388085
1050501334	Resistor	R835		2.547039	1	282340674.079668
1050502204	Resistor	R613,R619,R691, R698,R699		2.547039	5	67008142.102588
1050502234	Resistor	R375,R377		2.547039	2	154078778.388085
1050503934	Resistor	R494		2.547039	1	282340674.079668
1050504724	Resistor	R98		2.547039	1	282340674.079668
1050505124	Resistor	R409,R549		2.547039	2	154078778.388085
1050505164	Resistor	R403		2.547039	1	282340674.079668
1050505604	Resistor	R475		2.547039	1	282340674.079668
1050505633	Resistor	R391		2.547039	1	282340674.079668
1050506224	Resistor	R465		2.547039	1	282340674.079668
1050507530	Resistor	R524,R542		2.547039	2	154078778.388085
1050508224	Resistor	R637,R688,R793		2.547039	3	107020754.986850
1050510034	Resistor	R102,R1126, R12, R131,R26,R279, R316, R32,R402,R411, R416, R42,R429,R462, R492, R520,R552,R58, R582, R606,R608,R638, R659,R668,R673, R674,R690,R758, R786,R788,R8, R815, R827,R83,R830, R866, R91		2.547039	37	9991988.939157
1050511314	Resistor	R843		2.547039	1	282340674.079668
1050512104	Resistor	R418,R467		2.547039	2	154078778.388085
1050515034	Resistor	R295,R531,R553		2.547039	3	107020754.986850
1050520004	Resistor	R340,R419		2.547039	2	154078778.388085
1050520034	Resistor	R610		2.547039	1	282340674.079668
1050522034	Resistor	R627		2.547039	1	282340674.079668
1050524904	Resistor	R150,R422,R618		2.547039	3	107020754.986850
1050524909	Resistor	R376		2.547039	1	282340674.079668
1050525514	Resistor	R428		2.547039	1	282340674.079668
1050530124	Resistor	R405		2.547039	1	282340674.079668

File Name: EPIC-BDU7.rfp
Assembly: 9697BDU703-D
Ref Des:
Description:

Failure Rate: 15746.242847
MTBF (hrs): 63,507
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050533034	Resistor	R628,R634		2.547039	2	154078778.388085
1050536514	Resistor	R128		2.547039	1	282340674.079668
1050539224	Resistor	R1129		2.547039	1	282340674.079668
1050540224	Resistor	R387		2.547039	1	282340674.079668
1050545334	Resistor	R555		2.547039	1	282340674.079668
1050549964	Resistor	R483,R585,R591		2.547039	3	107020754.986850
1050551034	Resistor	R547		2.547039	1	282340674.079668
1050557614	Resistor	R530		2.547039	1	282340674.079668
1050590914	Resistor	R499		2.547039	1	282340674.079668
1050593114	Resistor	R557		2.547039	1	282340674.079668
1050700002	Resistor	R158,R82		2.547039	2	154078778.388085
1050701504	Resistor	R587,R588,R626		2.547039	3	107020754.986850
1050702734	Resistor	R566		2.547039	1	282340674.079668
1050703334	Resistor	R683,R720		2.547039	2	154078778.388085
1050704304	Resistor	R458,R67		2.547039	2	154078778.388085
1054500789	Resistor	R384		2.547039	1	282340674.079668
1054700289	Resistor	R110,R113		2.547039	2	154078778.388085
1059510001	Resistor	R1134,R138		2.547039	2	154078778.388085
1059520001	Resistor	R137		2.547039	1	282340674.079668
1059700001	Resistor	R264		2.547039	1	282340674.079668
105A500103	Resistor	R858,R859		2.547039	2	154078778.388085
105A500139	Resistor	R115,R116,R396,R434,R842		2.547039	5	67008142.102588
105A500239	Resistor	R100		2.547039	1	282340674.079668
105A501003	Resistor	R564		2.547039	1	282340674.079668
105A501033	Resistor	R53		2.547039	1	282340674.079668
105A501039	Resistor	R1132,R1133,R31,R390,R413,R414,R489,R584,R80,R848		2.547039	10	35079934.879747
105A501829	Resistor	R844,R845		2.547039	2	154078778.388085
105A502039	Resistor	R111,R112,R164,R392,R394,R398,R412,R603,R609,R611,R621,R670,R825,R836		2.547039	14	25477245.255648
105A503039	Resistor	R393,R601,R616,R665,R822		2.547039	5	67008142.102588
105A503309	Resistor	R850,R851		2.547039	2	154078778.388085

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105A505109	Resistor	R469,R470,R471, R472,R473,R474, R476,R73,R74		2.547039	9	38754445.632391
105A506829	Resistor	R846,R847		2.547039	2	154078778.388085
105A507509	Resistor	R351,R352,R353,R52		2.547039	4	82309758.689546
105A510009	Resistor	R1124,R420,R50,R78, R89		2.547039	5	67008142.102588
105A510223	Resistor	R622		2.547039	1	282340674.079668
105A511513	Resistor	R19		2.547039	1	282340674.079668
105A512039	Resistor	R612		2.547039	1	282340674.079668
105A513009	Resistor	R49,R77		2.547039	2	154078778.388085
105A513033	Resistor	R860		2.547039	1	282340674.079668
105A518214	Resistor	R146,R149,R389, R401		2.547039	4	82309758.689546
105A520003	Resistor	R27		2.547039	1	282340674.079668
105A521039	Resistor	R20,R21,R22, R25		2.547039	4	82309758.689546
105A522669	Resistor	R623		2.547039	1	282340674.079668
105A529413	Resistor	R397		2.547039	1	282340674.079668
105A530113	Resistor	R169,R565,R605, R807		2.547039	4	82309758.689546
105A536513	Resistor	R1125		2.547039	1	282340674.079668
105A544229	Resistor	R1127		2.547039	1	282340674.079668
105A549919	Resistor	R329		2.547039	1	282340674.079668
105A554969	Resistor	R45		2.547039	1	282340674.079668
105A590963	Resistor	R40		2.547039	1	282340674.079668
105A700003	Resistor	R1128,R1131, R205, R236,R260,R406, R417,R43,R504,R51, R511,R551,R574, R598,R642,R645, R667,R79,R814,R818, R823,R824,R828, R837		2.547039	24	15190138.820515

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700009	Resistor	R103,R104,R1140, R1141,R117, R122, R157,R162,R190, R191,R192,R193, R200,R204,R206, R207,R228,R23, R24, R244,R261,R266, R267,R296,R305, R310,R317,R319, R327,R347,R354, R356,R359,R360, R362,R363,R367, R378,R388,R395, R404,R407,R410, R415,R425,R435, R436,R439, R526		2.547039	103	3675275.994176
105A70000A	Resistor	R526		2.547039	1	282340674.079668
105A700139	Resistor	R16,R178,R199, R245, R307,R457,R459, R46, R513,R579,R615, R636,R648,R654, R66, R660,R69,R697, R722, R723,R774,R775, R785,R792,R794, R839,R841 R265,R561		2.547039	27	13557741.157915
105A701009	Resistor	R265,R561		2.547039	2	154078778.388085

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105A701039	Resistor	R1145,R121, R124, R125,R126,R 127, R130,R170,R 171, R172,R184,R 195, R208,R209,R 210, R211,R212,R 213, R214,R215,R 216, R217,R218,R 219, R220,R221,R 222, R225,R227,R 235, R242,R246,R 247, R248,R249,R 250, R251,R252,R 253, R254,R255,R 262, R268,R277,R 278, R280,R281,R 286		2.547039	112	3384913.455750
105A701059	Resistor	R1142,R1143 ,R263, R328,R338,R 368, R554,R597,R 646, R653		2.547039	10	35079934.879747
105A701069	Resistor	R661		2.547039	1	282340674.079668
105A702229	Resistor	R174,R176,R 188, R651,R658,R 677, R678,R716,R 739, R740,R753,R 754, R784,R799,R 806, R808		2.547039	16	22425139.809646
105A702269	Resistor	R154		2.547039	1	282340674.079668

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105A703309	Resistor	R105,R123,R133, R135,R141,R142, R144,R177,R194, R198,R202,R229, R427,R602,R607, R614,R620		2.547039	17	21160422.299251
105A703329	Resistor	R140,R237,R238, R239,R539,R663, R664,R680		2.547039	8	43225424.698300
105A704729	Resistor	R292,R41,R48,R505, R506,R507,R569, R694,R721,R747, R767,R810,R92		2.547039	13	27342571.921361
105A704739	Resistor	R223,R224,R226, R256,R257,R259, R282,R283,R284, R285,R735,R736, R737,R764,R765, R766,R780,R781, R782,R783		2.547039	20	18104712.511396
105A705139	Resistor	R321,R322,R330, R332,R335,R337, R341,R345,R348, R349,R803,R804		2.547039	12	29507083.749401
105A706209	Resistor	R448		2.547039	1	282340674.079668
105A708229	Resistor	R181,R182,R183, R187,R189,R197, R679,R710,R86,R96		2.547039	10	35079934.879747

**Reliability Prediction
Summary**

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Ref Des:
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A710009	Resistor	R134		2.547039	1	282340674.079668
105A710039	Resistor	R230,R231,R232, R233,R234,R545, R742,R743,R744, R745,R746,R93		2.547039	12	29507083.749401
105A711033	Resistor	R861		2.547039	1	282340674.079668
105A715009	Resistor	R464,R97		2.547039	2	154078778.388085
105A733009	Resistor	R1,R101,R2,R3,R312, R313,R314,R315, R867,R868		2.547039	10	35079934.879747
105A747009	Resistor	R5,R580,R596,R600		2.547039	4	82309758.689546
106B501033	Resistor	RT1		2.547039	1	282340674.079668
106B510030	Resistor	RT2		2.547039	1	282340674.079668
1121501691	Capacitor	C151,C152,C153, C154,C155,C167, C180,C181,C182, C183,C184,C185, C188,C189,C191, C199,C200,C201, C202,C203,C204, C205,C207,C208, C213,C215,C219,C22, C232,C233,C235, C241,C246,C247, C251,C253,C254, C267,C271,C272, C273,C274,C276,C28, C285,C286,C291, C292,C2		1.128806	178	4885411.973951
1121533480	Capacitor	C93		1.128806	1	704977644.692287

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1124410191	Capacitor	C372,C378,C379, C380,C381,C386, C518		1.128806	7	115633865.771428
1124418090	Capacitor	C487,C492,C517, C522,C678,C679		1.128806	6	133979725.056342
1124420090	Capacitor	C328,C331		1.128806	2	375289731.076049
1124427091	Capacitor	C290,C314,C604, C616,C662		1.128806	5	159367490.199266
1124515281	Capacitor	C84		1.128806	1	704977644.692287
1124522290	Capacitor	C746,C749		1.128806	2	375289731.076049
1124533191	Capacitor	C734,C735		1.128806	2	375289731.076049
1124547281	Capacitor	C427		1.128806	1	704977644.692287
1129701791	Capacitor	C139,C142,C164, C168,C226,C230, C239,C244,C33,C404, C436,C519,C624, C632,C75		1.128806	15	55479656.844874
1129710091	Capacitor	C243,C675,C676, C677,C689,C690, C691,C77		1.128806	8	101746760.035398
1129710391	Capacitor	C365,C366,C414, C497,C527,C580, C636		1.128806	7	115633865.771428
1129747091	Capacitor	C440		1.128806	1	704977644.692287
1174510180	Capacitor	CP1		1.128806	1	704977644.692287
1181627197	Connection	TC1,TC2		16.184835	2	20390152.380746
1183610191	Connection	TC3		16.184835	1	35685591.360212
1189615154	Capacitor	TC12,TC13,T C14,TC6		4.744484	4	45505862.704531
1189622154	Capacitor	TC16,TC18		4.744484	2	86049450.747498
1189622194	Capacitor	TC7,TC8		4.744484	2	86049450.747498
1189633151	Capacitor	TC17		4.744484	1	159663026.715137
1189633193	Capacitor	TC9		4.744484	1	159663026.715137
1189933180	Capacitor	TC5		4.744484	1	159663026.715137
118A6221B0	Capacitor	TC15,TC19,T C20		4.744484	3	59399119.141203
11A4410280	Capacitor	C425		1.128806	1	704977644.692287
11C1510390	Capacitor	C738,C739		1.128806	2	375289731.076049

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11C1522390	Capacitor	C209,C361,C362, C363,C364,C403		1.128806	6	133979725.056342
11C1522480	Capacitor	C383		1.128806	1	704977644.692287
11C1539840	Capacitor	C266		1.128806	1	704977644.692287
11C1547480	Capacitor	C674		1.128806	1	704977644.692287
11C2510480	Capacitor	C13,C421,C99		1.128806	3	257514172.353070
11C2522480	Capacitor	C474,C80		1.128806	2	375289731.076049
11C4501380	Capacitor	C21,C469		1.128806	2	375289731.076049
11C4501650	Capacitor	C367,C641,C642, C650		1.128806	4	196873384.410843
11C4510380	Capacitor	C743		1.128806	1	704977644.692287
11C4522190	Capacitor	C260,C261,C262, C263,C264,C265, C277,C278,C279, C280,C309,C310, C319,C322,C325, C342,C532,C533, C534,C535,C536, C537,C588,C589, C590,C591,C592, C593,C594,C607, C615,C623		1.128806	32	26512863.286539
11C4522290	Capacitor	C171,C525,C646, C657,C744,C92		1.128806	6	133979725.056342
11C4547190	Capacitor	C119,C296,C297, C298,C299,C300, C301,C330,C368, C370,C373,C375,C4, C416		1.128806	14	59316298.011235
11C9512780	Capacitor	C417		1.128806	1	704977644.692287
11C9582390	Capacitor	C6		1.128806	1	704977644.692287

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11E1501080	Capacitor	C18,C432,C471,C663,C717,C721,C725, C726		1.128806	8	101746760.035398
11E1510050	Capacitor	C303,C355,C438,C444,C513,C514,C595,C596,C645,C660,C661,C670,C671,C672,C704,C705,C706,C710,C714,C715,C716,C722,C723,C724		1.128806	24	35120617.936543
11E1522020	Capacitor	C48,C49		1.128806	2	375289731.076049
11E1522680	Capacitor	C212,C360,C551		1.128806	3	257514172.353070
11E2501690	Capacitor	C249,C252,C318,C324,C335,C409,C465,C475,C476,C528,C584,C585,C598,C599,C736, C737		1.128806	16	52112480.802928
11E2510010	Capacitor	C15,C16,C687,C711		1.128806	4	196873384.410843
11E4510020	Capacitor	C727,C728,C729,C730,C740		1.128806	5	159367490.199266
11E9501091	Capacitor	C78		1.128806	1	704977644.692287
11E9547680	Capacitor	C109		1.128806	1	704977644.692287

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11E9622050	Capacitor	C105,C106,C107, C108,C126,C127, C128,C129,C145, C146,C147,C148, C195,C196,C197, C198,C529,C665, C666,C667,C70, C701,C71,C72,C73		1.128806	25	33748887.792763
11E9622080	Capacitor	C747,C748		1.128806	2	375289731.076049
11EA610030	Capacitor	C100,C110,C117, C125,C149,C186, C187,C194,C206, C223,C231,C24, C269,C270,C29,C305, C311,C359,C420,C424, C426,C433,C435, C437,C446,C453, C456,C457,C480, C491,C498,C499, C505,C546,C555, C565,C581,C587, C601,C603,C608, C612,C625,C626, C654,C656,C658, C659,C6		1.128806	55	15582058.408778

**Reliability Prediction
Summary**

File Name: EPIC-BDU7.rfp
Assembly: 9697BDU703-D
Ref Des:
Description:

Failure Rate: 15746.242847
MTBF (hrs): 63,507
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EB501040	Capacitor	C111,C113,C114, C118,C121,C124, C133,C140,C143, C144,C150,C156, C157,C158,C159, C160,C162,C163, C166,C172,C173, C174,C175,C176, C177,C192,C214, C216,C217,C218, C224,C227,C237, C238,C245,C306, C307,C329,C340, C341,C357,C390, C392,C393,C394, C395,C396,C397,		1.128806	82	10513419.187508
11EB610050	Capacitor	C27,C399,C720		1.128806	3	257514172.353070
11EB622010	Capacitor	C268,C63,C664,C702, C703,C713,C74, C741,C742		1.128806	9	90863428.080946
121110106F	Inductor	L5	80	16.408753	1	46632255.281784
121110106G	Inductor	L13		4.944252	1	154760964.143460
1211101970	Inductor	L7	71.4	14.782612	1	51761973.722978
121110220A	Inductor	L17		4.944252	1	154760964.143460
121110336X	Inductor	L6	74.3	15.320251	1	49945471.589550
121110476Q	Inductor	L1		4.944252	1	154760964.143460
121110476R	Inductor	L12		4.944252	1	154760964.143460
121113307L	Inductor	L11		4.944252	1	154760964.143460
1211202700	Inductor	L14,L15,L16		4.944252	3	57363284.375370

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1212306030	Inductor	FB13,FB19,F B20, FB24,FB25,F B26, FB30,FB31,F B32, FB39,FB7		4.944252	11	16872203.304846
1212308054	Inductor	FB22		4.944252	1	154760964.143460
12123C0003	Inductor	FB1,FB2,FB3, FB4, FB5		4.944252	5	35631881.582999
12123C0031	Inductor	FB33,FB34,F B35, FB36,FB37		4.944252	5	35631881.582999
12123D0002	Inductor	FB10,FB11,F B12,FB6, FB8,FB9		4.944252	6	30055900.223009
1214309008	Inductor	CH1,CH10,C H2,CH3, CH6,CH7		4.944252	6	30055900.223009
1214309009	Inductor	CH4,CH5,CH 8,CH9		4.944252	4	43912872.424775
12310025A3	Miscellaneous	Y2,Y5		19.200000	2	8854051.752197
1231324054	Miscellaneous	Y4		19.200000	1	23844262.770939
1231327053	Miscellaneous	Y1		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y3		19.200000	1	23844262.770939
1301005442	Semiconductor	D35		7.793411	1	92807310.010983
1301005444	Semiconductor	D13,D21,D24 ,D29,D4		7.793411	5	21965031.404253
1301013040	Semiconductor	D17,D39		7.793411	2	50578095.223398
1301053040	Semiconductor	D7		7.793411	1	92807310.010983
1301400642	Semiconductor	D5		7.793411	1	92807310.010983
1302008240	Semiconductor	D19		7.793411	1	92807310.010983
1304000043	Optical Device	LED3		79.003355	1	6497172.749112
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1304500240	Optical Device	LED1		79.003355	1	6497172.749112
130505ESD0	Semiconductor	D1,D14,D15, D16,D18, D3,D30,D32, D33,D36, D43,D44,D45 ,D46,D9		7.793411	15	7809407.629947
1305RF4020	Semiconductor	U73		7.793411	1	92807310.010983
1310222211	Semiconductor	Q4,Q5		22.463360	2	17315095.066101
1310390413	Semiconductor	Q58,Q81,Q8 2		22.463360	3	12043329.789539
1311390612	Semiconductor	Q16,Q17		22.463360	2	17315095.066101
1315076980	Semiconductor	Q36	64	916.143495	1	557431.966576
1315083270	Semiconductor	Q61,Q62,Q6 8,Q69, Q70		22.463360	5	7551839.591592

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Assembly: 9697BDU703-D
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315190100	Semiconductor	U25,U31,U9		22.463360	3	12043329.789539
1315200312	Semiconductor	Q64,Q65,Q66,Q72, Q73		22.463360	5	7551839.591592
1315230511	Semiconductor	Q1,Q10,Q11, Q2,Q54, Q59,Q67		22.463360	7	5525968.936223
1315443512	Semiconductor	Q38,Q55		22.463360	2	17315095.066101
1315444710	Semiconductor	Q12	74.1	117.568894	1	6045809.429393
1315444710	Semiconductor	Q63		22.463360	1	31642600.748419
1315700216	Semiconductor	Q13,Q14,Q15,Q18, Q19,Q20,Q21,Q22, Q23,Q24,Q26,Q32, Q33,Q35,Q41,Q42, Q45,Q50,Q51,Q52, Q53,Q56,Q57,Q6, Q79, Q8,Q83		22.463360	27	1533030.992154
1315831310	Semiconductor	Q44		22.463360	1	31642600.748419
1315EM6K10	Semiconductor	Q80		22.463360	1	31642600.748419
1410023060	Integrated Circuit	U2		43.803003	1	11739202.588727
1430014840	Integrated Circuit	U72		43.803003	1	11739202.588727
1430021850	Integrated Circuit	U4		43.803003	1	11739202.588727
1430023050	Integrated Circuit	U52		43.803003	1	11739202.588727
1430516220	Integrated Circuit	U36		43.803003	1	11739202.588727
1430973740	Integrated Circuit	U37	73.7	2905.876143	1	176956.038023
143117ADJ0	Semiconductor	U71		22.463360	1	31642600.748419
143ALC8920	Integrated Circuit	U7		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U19,U20,U55, U56		43.803003	4	3879156.910661
1440211AT0	Integrated Circuit	U22		43.803003	1	11739202.588727
1440218LM0	Integrated Circuit	U62		43.803003	1	11739202.588727
14407517A0	Integrated Circuit	U66		43.803003	1	11739202.588727
14475650U0	Integrated Circuit	U39	51.2	150.606166	1	3414284.695876
1462001280	Integrated Circuit	U12		43.803003	1	11739202.588727
14S1035803	Integrated Circuit	U11		43.803003	1	11739202.588727
14S3112300	Integrated Circuit	U64		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U34		43.803003	1	11739202.588727
14S3121800	Integrated Circuit	U43		43.803003	1	11739202.588727
14S3128422	Integrated Circuit	U33		43.803003	1	11739202.588727
14S3524700	Integrated Circuit	U21		43.803003	1	11739202.588727
14S3973100	Integrated Circuit	U65		43.803003	1	11739202.588727
14S4186600	Integrated Circuit	U40		43.803003	1	11739202.588727
14S4814380	Integrated Circuit	U17,U57		43.803003	2	6834791.244197
14S5A00601	Integrated Circuit	U44		26.018600	1	25551442.237972

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5A00704	Integrated Circuit	U51,U8		26.018600	2	14194252.866846
14S5A00802	Integrated Circuit	U53,U59,U61		26.018600	3	9949526.289768
14S5A00821	Integrated Circuit	U16,U26,U28 ,U3,U41, U47,U48		26.018600	7	4626592.240320
14S9108500	Integrated Circuit	U29,U30,U49 ,U58		43.803003	4	3879156.910661
14S9312500	Integrated Circuit	U42		43.803003	1	11739202.588727
14S9346000	Integrated Circuit	U24	57.4	1332.086977	1	386020.085932
1540733085	Resistor	RP1		9.971436	1	51606907.671214
1540747285	Resistor	RP2		9.971436	1	51606907.671214
16515A2990	Connection	DIMM1		16.184835	1	35685591.360212
165251420B	Connection	CN26,CN27		16.184835	2	20390152.380746
1652602105	Connection	CN4		16.184835	1	35685591.360212
165300310G	Connection	JP10,JP11,JP 12,JP2, JP4		16.184835	5	9343344.843761
165300320K	Connection	JP13,JP14		16.184835	2	20390152.380746
165300420Q	Connection	CN16		16.184835	1	35685591.360212
165321320N	Connection	CN9		16.184835	1	35685591.360212
1653300107	Connection	JP10(2-3), JP11(2-3), JP13(3-4), JP14(3-4)		16.184835	4	11344857.509064
1653300108	Connection	JP2(1-2)		16.184835	1	35685591.360212
165330010E	Connection	JP12(2- 3),JP4(2-3)		16.184835	2	20390152.380746
1654030003	Connection	CN25		16.184835	1	35685591.360212
1654226303	Connection	CN12,CN38		16.184835	2	20390152.380746
1654415305	Connection	CN34		16.184835	1	35685591.360212
1654418103	Connection	CN33		16.184835	1	35685591.360212
1654818301	Connection	CN30		16.184835	1	35685591.360212
1654903901	Connection	CN15		16.184835	1	35685591.360212
1654907004	Connection	SATA1,SATA 2		16.184835	2	20390152.380746
1654920307	Connection	CN31		16.184835	1	35685591.360212
1655004014	Connection	CN17		16.184835	1	35685591.360212
1655302025	Connection	CN14		16.184835	1	35685591.360212
1655305025	Connection	CN24		16.184835	1	35685591.360212
1655902034	Connection	BAT1A1,CN1, CN2		16.184835	3	14515880.849373
1655905038	Connection	CN10,CN11,C N37,CN7		16.184835	4	11344857.509064
1655906032	Connection	CN18		16.184835	1	35685591.360212
1655909034	Connection	CN21,CN22,C N23, CN28,CN29		16.184835	5	9343344.843761
1655910032	Connection	CN6,CN8		16.184835	2	20390152.380746
1655912032	Connection	CN20		16.184835	1	35685591.360212

**Reliability Prediction
Summary**

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Assembly: 9697BDU703-D
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Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
175011301B	Miscellaneous	BAT1B1		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS3,FS4		2.400000	2	143944727.196625
1752001603	Miscellaneous	FS1,FS2,FS6		2.400000	3	101854599.204190
17520ML050	Miscellaneous	FS5		2.400000	1	254626042.602335