

EPIC-KB07

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8978.952167 ppm MTBF: 111,372 Hours
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Issue date	Approval	Test Engineer
2014/08/13	Tom Lin	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: EPIC-KB07

II . Prediction Date: August. 13th, 2014

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

IV . Predicted by: Louie Lee

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-KB07 (9697KB0704-D):

- Failure Rate: 8978.952167 ppm

- MTBF: 111,372 Hours

**AAEON Reliability Prediction
Summary**

File Name: EPIC-KB07.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 8978.952167
MTBF (hrs): 111,372
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
EPIC-KB07	9697KB0704-D		1	8978.952167	111,372

File Name: EPIC-KB07.rfp
Assembly: 9697KB0704-D
Ref Des:
Description:

Failure Rate: 8978.952167
MTBF (hrs): 111,372
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500334	Resistor	R573		2.547039	1	282340674.079668
1050501004	Resistor	R596,R599,R600, R601		2.547039	4	82309758.689546
1050502204	Resistor	R569		2.547039	1	282340674.079668
1050504724	Resistor	R375,R665		2.547039	2	154078778.388085
1050505124	Resistor	R409		2.547039	1	282340674.079668
1050505134	Resistor	R576,R636,R637		2.547039	3	107020754.986850
1050507530	Resistor	R535,R536		2.547039	2	154078778.388085
1050510034	Resistor	R256,R271,R316, R320,R494,R504, R508,R518,R556, R602,R603,R782, R786		2.547039	13	27342571.921361
1050510534	Resistor	R538		2.547039	1	282340674.079668
1050511824	Resistor	R132		2.547039	1	282340674.079668
1050524004	Resistor	R562		2.547039	1	282340674.079668
1050524314	Resistor	R592		2.547039	1	282340674.079668
1050525524	Resistor	R575,R590		2.547039	2	154078778.388085
1050539214	Resistor	R533		2.547039	1	282340674.079668
1050539264	Resistor	R3		2.547039	1	282340674.079668
1050540224	Resistor	R571,R598		2.547039	2	154078778.388085
1050541224	Resistor	R497,R511		2.547039	2	154078778.388085
1050549904	Resistor	R24		2.547039	1	282340674.079668
1050551004	Resistor	R37,R38		2.547039	2	154078778.388085
1050561934	Resistor	R501,R515		2.547039	2	154078778.388085
1050563420	Resistor	R588		2.547039	1	282340674.079668
1050580604	Resistor	R589		2.547039	1	282340674.079668
1050584514	Resistor	R698		2.547039	1	282340674.079668
1050588704	Resistor	R572,R594		2.547039	2	154078778.388085
1050590964	Resistor	R696		2.547039	1	282340674.079668
1050595314	Resistor	R701		2.547039	1	282340674.079668
1050702704	Resistor	R304,R305		2.547039	2	154078778.388085
1050756004	Resistor	R135		2.547039	1	282340674.079668
1054500589	Resistor	R607		2.547039	1	282340674.079668
1059700001	Resistor	R176,R181,R197, R207		2.547039	4	82309758.689546
1059710001	Resistor	R455,R456,R458, R459		2.547039	4	82309758.689546
1059722001	Resistor	R454		2.547039	1	282340674.079668
105A500103	Resistor	R574,R587,R729, R730		2.547039	4	82309758.689546

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Assembly: 9697KB0704-D
Ref Des:
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A500139	Resistor	R133,R134,R141, R142,R172,R173, R174,R175,R2,R243, R547,R565,R567, R666,R697,R699, R700,R781		2.547039	18	20032117.836120
105A500239	Resistor	R10,R374		2.547039	2	154078778.388085
105A501033	Resistor	R604		2.547039	1	282340674.079668
105A501039	Resistor	R278,R336,R376, R379,R380,R381, R408,R499,R512, R554,R558,R566, R695,R799,R801, R802		2.547039	16	22425139.809646
105A502039	Resistor	R370,R371,R406, R410		2.547039	4	82309758.689546
105A503039	Resistor	R496,R510		2.547039	2	154078778.388085
105A503309	Resistor	R327		2.547039	1	282340674.079668
105A505109	Resistor	R577,R593,R597, R605,R606		2.547039	5	67008142.102588
105A505629	Resistor	R432,R437		2.547039	2	154078778.388085
105A506834	Resistor	R555		2.547039	1	282340674.079668
105A510009	Resistor	R668		2.547039	1	282340674.079668
105A510223	Resistor	R517		2.547039	1	282340674.079668
105A511513	Resistor	R608		2.547039	1	282340674.079668
105A514023	Resistor	R532		2.547039	1	282340674.079668
105A515009	Resistor	R16,R17,R18, ,R299, R300,R301,R6		2.547039	7	48991237.965885
105A516913	Resistor	R1		2.547039	1	282340674.079668
105A519123	Resistor	R539		2.547039	1	282340674.079668
105A524919	Resistor	R189,R210		2.547039	2	154078778.388085
105A545323	Resistor	R514		2.547039	1	282340674.079668
105A553629	Resistor	R559		2.547039	1	282340674.079668
105A561924	Resistor	R557		2.547039	1	282340674.079668
105A573223	Resistor	R500		2.547039	1	282340674.079668
105A597613	Resistor	R503		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	R402,R414,R418, R507,R521,R552, R564,R570,R585, R595		2.547039	10	35079934.879747
105A700009	Resistor	C633,C634,R130, R131,R139,R140, R143,R144,R187, R188,R208,R209, R238,R25,R26,R267, R273,R29,R306,R307, R32,R321,R322,R326, R328,R329,R34,R349, R363,R364,R378,R39, R40,R43,R446,R462, R469,R471,R479, R480,R481,R482, R492,R495,R505, R509,R519,R524, R525,R526		2.547039	105	3606506.632575
105A70000A	Resistor	R642		2.547039	1	282340674.079668

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105A700139	Resistor	R121,R124,R125,R13,R14,R171,R177,R178,R179,R180,R185,R19,R198,R201,R202,R204,R205,R317,R318,R330,R35,R36,R404,R433,R436,R438,R442,R443,R448,R450,R452,R47,R48,R49,R498,R51,R513,R52,R53,R530,R7,R777,R778,R797, R8		2.547039	45	8260575.675294
105A700239	Resistor	R167,R170,R302, R303		2.547039	4	82309758.689546
105A701009	Resistor	R252,R261,R325,R411,R546		2.547039	5	67008142.102588

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105A701039	Resistor	R112,R114,R115, R127,R153,R154, R155,R157,R158, R159,R160,R164, R165,R186,R195, R206,R216,R232, R237,R248,R249, R250,R251,R262, R276,R277,R281, R282,R287,R289, R298,R308,R313, R319,R323,R324, R365,R386,R387, R388,R451,R461, R465,R468,R484, R485,R486,R59,R		2.547039	96	3938213.737375
105A701059	Resistor	R146,R240,R241, R247,R255,R268, R269,R270,R274, R279,R280,R314, R358,R540		2.547039	14	25477245.255648
105A701539	Resistor	R182,R199,R95,R97, R98		2.547039	5	67008142.102588
105A702209	Resistor	R147,R148,R732		2.547039	3	107020754.986850
105A702229	Resistor	R123,R233,R234,R72, R74,R803,R82,R88		2.547039	8	43225424.698300
105A702269	Resistor	R825		2.547039	1	282340674.079668

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105A703309	Resistor	R100,R106,R108,R21,R22,R23,R309,R311,R312,R403,R413,R57,R58,R664,R96		2.547039	15	23852782.943395
105A703363	Resistor	R529		2.547039	1	282340674.079668
105A704729	Resistor	R117,R156,R27,R28,R315,R337,R338,R339,R340,R342,R345,R350,R351,R352,R354,R355,R356,R357,R372,R405,R407,R419,R434,R441,R447,R783,R784		2.547039	27	13557741.157915
105A705139	Resistor	R431,R435,R439,R440,R444,R445,R449,R774,R775		2.547039	9	38754445.632391
105A706829	Resistor	R285,R286,R290,R291,R292		2.547039	5	67008142.102588
105A708229	Resistor	R633		2.547039	1	282340674.079668
105A710009	Resistor	R470,R789		2.547039	2	154078778.388085
105A710039	Resistor	R126,R15,R26,R227,R235,R242,R259,R260,R263,R264,R266,R275,R362,R453,R457,R522,R523,R542,R549,R563,R638,R742,R790,R9		2.547039	24	15190138.820515

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105A720053	Resistor	R113		2.547039	1	282340674.079668
105A730009	Resistor	R11,R12,R57 8		2.547039	3	107020754.986850
105A733009	Resistor	R190,R194,R 213, R215,R543,R 544, R693,R694		2.547039	8	43225424.698300
105A747009	Resistor	R331,R332,R 333, R335		2.547039	4	82309758.689546
106B501034	Resistor	RT1,RT2		7.724580	2	38596617.434771
106B701032	Resistor	RT3,RT4,RT5 ,RT6		7.724580	4	21923287.146155
1121501680	Capacitor	C338,C884		1.128806	2	375289731.076049
1121501690	Capacitor	C1,C129,C13 9,C140, C148,C149,C 150, C151,C152,C 153, C154,C155,C 158, C159,C160,C 161, C162,C163,C 164, C165,C166,C 168,C17, C172,C173,C 180, C181,C182,C 183, C184,C185,C 186, C187,C188,C 189, C190,C191,C 192, C194,C195,C 196, C197,C199,C 2,C203, C204,C210,C 211, C212,		1.128806	115	7527978.979731

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C177,C208,C221, C233,C237,C244, C282,C283,C284, C288,C289,C290, C292,C293,C295, C296,C297,C306, C309,C310,C311, C313,C314,C324, C326,C327,C328, C329,C340,C341, C342,C343,C344, C345,C367,C368, C369,C370,C371, C372,C374,C375, C376,C377,C378, C379,C381,C382,		1.128806	90	9590606.735476
1122568290	Capacitor	C587		1.128806	1	704977644.692287
1122701680	Capacitor	C601		1.128806	1	704977644.692287
1123710090	Capacitor	C481,C482,C501, C502,C549,C571, C807,C847,C857, C858,C902		1.128806	11	74892583.279796
1124410191	Capacitor	C406,C407,C415, C417,C418,C420, C431		1.128806	7	115633865.771428
1124418090	Capacitor	C280,C281,C622, C623		1.128806	4	196873384.410843

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1124418190	Capacitor	C103,C110,C118, C128,C51,C65,C76, C77,C78,C79,C88,C93		1.128806	12	68856937.301178
1124420090	Capacitor	C24,C25		1.128806	2	375289731.076049
1124427090	Capacitor	C170,C171,C201,C202		1.128806	4	196873384.410843
1124522290	Capacitor	C475		1.128806	1	704977644.692287
1124522680	Capacitor	C553,C575		1.128806	2	375289731.076049
1124547190	Capacitor	C28,C316,C317,C320, C321,C556,C589, C860,C861,C900		1.128806	10	82101057.548118
1124582880	Capacitor	C602		1.128806	1	704977644.692287
1124701680	Capacitor	C479,C499,C596, C603,C808		1.128806	5	159367490.199266
1129522790	Capacitor	C384		1.128806	1	704977644.692287
1129610051	Capacitor	C461,C635,C896		1.128806	3	257514172.353070
1129610080	Capacitor	C119,C120,C264,C37, C38,C39,C517,C52, C523,C53,C54,C55, C66,C67,C80,C94, C95,C96		1.128806	18	46478509.590073
1129622690	Capacitor	C468,C473		1.128806	2	375289731.076049
1129701791	Capacitor	C542		1.128806	1	704977644.692287
1129710090	Capacitor	C29,C30		1.128806	2	375289731.076049
1129710091	Capacitor	C274,C275,C276, C277,C278,C279,C409		1.128806	7	115633865.771428
1129710390	Capacitor	C130,C141,C18,C554, C558,C566,C568, C585,C588,C590, C593,C594		1.128806	12	68856937.301178
1129710391	Capacitor	C232,C243,C303		1.128806	3	257514172.353070

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1129722091	Capacitor	C261,C263,C555, C591		1.128806	4	196873384.410843
1174510180	Capacitor	CP1		4.744484	1	159663026.715137
1181627197	Capacitor	C598,C599		4.744484	2	86049450.747498
1182615090	Capacitor	TC26		4.744484	1	159663026.715137
1189610153	Capacitor	C444,C454		4.744484	2	86049450.747498
1189615154	Capacitor	C441,C450,C487, C488,C507,C508,TC1, TC2,TC27,TC3,TC4		4.744484	11	17521838.469916
1189633151	Capacitor	C518,C524,C560, C561,C562,C580, C581,C582,T C6		4.744484	9	21223953.983763
11C1501080	Capacitor	C23		1.128806	1	704977644.692287
11C1510390	Capacitor	C565		1.128806	1	704977644.692287
11C1547890	Capacitor	C531		1.128806	1	704977644.692287
11C2410390	Capacitor	C592		1.128806	1	704977644.692287
11C2501790	Capacitor	C294,C298,C299, C300,C301,C302, C304,C330,C331, C332,C333		1.128806	11	74892583.279796
11C2610030	Capacitor	C234,C245,C271, C286,C287,C305, C307,C308,C315, C319,C323,C373, C380,C426,C427, C443,C453,C511, C512,C515,C859, C903		1.128806	22	38230892.707156
11C4501380	Capacitor	C605		1.128806	1	704977644.692287
11C4501650	Capacitor	C480,C500,C551, C573		1.128806	4	196873384.410843
11C4501790	Capacitor	C606		1.128806	1	704977644.692287
11C4510380	Capacitor	C567		1.128806	1	704977644.692287
11C4515190	Capacitor	C21,C22		1.128806	2	375289731.076049

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11C4522190	Capacitor	C351,C352,C353, C354,C355,C356, C357,C358,C359, C360,C361,C362, C363,C364,C365, C366		1.128806	16	52112480.802928
11C4522191	Capacitor	C144,C145,C146, C147		1.128806	4	196873384.410843
11C4522290	Capacitor	C552,C564,C574, C586,C855,C856		1.128806	6	133979725.056342
11C4547190	Capacitor	C169,C174,C175, C200,C205,C206		1.128806	6	133979725.056342
11C4547290	Capacitor	C898,C899		1.128806	2	375289731.076049
11C4547690	Capacitor	C490,C510		1.128806	2	375289731.076049
11C9510490	Capacitor	C559,C579,C852		1.128806	3	257514172.353070
11C9522060	Capacitor	C850,C851,C854		1.128806	3	257514172.353070
11E1547090	Capacitor	C901		1.128806	1	704977644.692287
11E1647090	Capacitor	C595		1.128806	1	704977644.692287
11E2501690	Capacitor	C27,C385,C449,C541		1.128806	4	196873384.410843
11E2510060	Capacitor	C26,C448,C600,C882		1.128806	4	196873384.410843
11E3510010	Capacitor	C222,C238,C440, C447,C452,C881		1.128806	6	133979725.056342
11E9501080	Capacitor	C607		1.128806	1	704977644.692287

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11E9501090	Capacitor	C100,C101,C102, C112,C113,C114, C115,C116,C117, C121,C122,C123, C124,C125,C126, C127,C131,C132, C133,C134,C135, C136,C137,C138, C157,C179,C40,C41, C42,C43,C44,C45, C46,C47,C48,C49, C50,C56,C569,C57, C58,C59,C60,C61, C62,C63,C64,C81, C82,C83,C84,C85, C86,C		1.128806	60	14303403.916408
11E9501091	Capacitor	C106,C107,C108, C109,C176,C178, C207,C209,C216, C318,C322,C325, C339,C410,C411, C412,C413,C414, C416,C419,C445, C455,C459,C489, C509,C522,C536, C548,C557,C570, C853,C862		1.128806	32	26512863.286539

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9510050	Capacitor	C486,C506,C538,C539,C544,C547		1.128806	6	133979725.056342
11E9522490	Capacitor	C217		1.128806	1	704977644.692287
11E9522790	Capacitor	C285,C545		1.128806	2	375289731.076049
11E9547680	Capacitor	C156,C193,C520		1.128806	3	257514172.353070
11E9610080	Capacitor	C291,C312,C408,C423,C546		1.128806	5	159367490.199266
11E9622080	Capacitor	C848,C849		1.128806	2	375289731.076049
11E9647680	Capacitor	C111,C142,C143,C167,C198,C89		1.128806	6	133979725.056342
121110156J	Inductor	L13	19.4	6.985281	1	109541359.301118
121110156J	Inductor	L14		4.944252	1	154760964.143460
121110226V	Inductor	L15		4.944252	1	154760964.143460
121110476Q	Inductor	L1,L2		4.944252	2	83201062.149749
121110567E	Inductor	L18	38	9.376549	1	81605413.330870
121110567E	Inductor	L19		4.944252	1	154760964.143460
1211122070	Inductor	L17		4.944252	1	154760964.143460
121113307A	Inductor	L16		4.944252	1	154760964.143460
121114707E	Inductor	L20	19.5	6.996981	1	109358181.014003
1212306030	Inductor	FB10,FB11,FB15,FB16,FB18,FB19,FB29,FB38,FB50,FB51,FB52,FB9		4.944252	12	15520616.516984
1212306036	Inductor	FB2		4.944252	1	154760964.143460
1212308054	Inductor	FB54		4.944252	1	154760964.143460
121230805A	Inductor	FB1		4.944252	1	154760964.143460
121230805X	Inductor	FB39		4.944252	1	154760964.143460
121231206B	Inductor	FB45		4.944252	1	154760964.143460
12123C0003	Inductor	FB5,FB6		4.944252	2	83201062.149749
12123C000C	Inductor	FB3,FB4		4.944252	2	83201062.149749
12123C001A	Inductor	FB17		4.944252	1	154760964.143460
12123D0001	Inductor	FB12,FB13,FB14		4.944252	3	57363284.375370
12123D0002	Inductor	FB23,FB24,FB25,FB26,FB27,FB28		4.944252	6	30055900.223009
1214309008	Inductor	L21,L3,L4,L5,L6,L7,L8		4.944252	7	25970990.056682

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Assembly: 9697KB0704-D
Ref Des:
Description:

Failure Rate: 8978.952167
MTBF (hrs): 111,372
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1214309009	Inductor	L10,L11,L12, L9		4.944252	4	43912872.424775
12310025A3	Miscellaneous	Y3,Y4		19.200000	2	8854051.752197
12310027A2	Miscellaneous	Y5		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y1		19.200000	1	23844262.770939
1231480040	Miscellaneous	Y2		19.200000	1	23844262.770939
1301001443	Semiconductor	D8		7.793411	1	92807310.010983
1301005440	Semiconductor	D2,D25,D3		7.793411	3	35106858.962001
1301005442	Semiconductor	D17,D18,D19, D20		7.793411	4	26989084.126235
1301005444	Semiconductor	D14,D27,D28, D7		7.793411	4	26989084.126235
1301013040	Semiconductor	D21		7.793411	1	92807310.010983
1301053040	Semiconductor	D13		7.793411	1	92807310.010983
1301400541	Semiconductor	D22,D23,D24, D29, D30		7.793411	5	21965031.404253
1301400642	Semiconductor	D31		7.793411	1	92807310.010983
1304000043	Optical Device	LED4		79.003355	1	6497172.749112
1304300140	Optical Device	LED5		79.003355	1	6497172.749112
1305040241	Semiconductor	U81,U82,U83		22.463360	3	12043329.789539
1305080040	Semiconductor	D10,D11,D12, D9,U27, U28,U30,U31, U32, U33,U35,U36, U38, U39,U42,U43, U62, U66		7.793411	18	6557588.394219
1305099140	Semiconductor	D33,D34		7.793411	2	50578095.223398
1310390410	Semiconductor	Q25,Q26,Q6 8		22.463360	3	12043329.789539
1310390412	Semiconductor	Q100		22.463360	1	31642600.748419
1310390413	Semiconductor	Q36		22.463360	1	31642600.748419
1311071710	Semiconductor	Q2		22.463360	1	31642600.748419
1311390612	Semiconductor	Q103,Q49		22.463360	2	17315095.066101
1314010410	Semiconductor	U89		22.463360	1	31642600.748419
1315030110	Semiconductor	Q78,Q81		22.463360	2	17315095.066101
1315041770	Semiconductor	Q88		22.463360	1	31642600.748419
1315042140	Semiconductor	Q74,Q82		22.463360	2	17315095.066101
1315058300	Semiconductor	Q95	25.7	43.400111	1	16377818.256565
1315058300	Semiconductor	Q93	21.8	39.536731	1	17978196.587563
1315058300	Semiconductor	Q85,Q87,Q9 4		22.463360	3	12043329.789539
1315058340	Semiconductor	Q71,Q72,Q8 4,Q86		22.463360	4	9270607.712006
1315230511	Semiconductor	Q19,Q23,Q3 1,Q9		22.463360	4	9270607.712006
1315441012	Semiconductor	Q47		22.463360	1	31642600.748419

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315443510	Semiconductor	Q50,Q54		22.463360	2	17315095.066101
1315443710	Semiconductor	Q45,Q96		22.463360	2	17315095.066101
1315444710	Semiconductor	Q37,Q39,Q42		22.463360	3	12043329.789539
1315700211	Semiconductor	Q10,Q101,Q102,Q11,Q12,Q13,Q14,Q17,Q24,Q3,Q4,Q5,Q6,Q76		22.463360	14	2878021.548809
1315700216	Semiconductor	Q18,Q22,Q30,Q32,Q38,Q40,Q41,Q43,Q44,Q46,Q48,Q51,Q52,Q53,Q55,Q56,Q83,Q90,Q91,Q92,Q97,Q98,Q99		22.463360	23	1789160.944012
1315720010	Semiconductor	Q73		22.463360	1	31642600.748419
1315970211	Semiconductor	U29,U34,U90		22.463360	3	12043329.789539
1315971500	Semiconductor	U37		22.463360	1	31642600.748419
1315S4C500	Semiconductor	Q89		22.463360	1	31642600.748419
1426GP2120	Integrated Circuit	U16,U20		43.803003	2	6834791.244197
1430021850	Integrated Circuit	U72	24.1	212.597866	1	2418708.795691
1430532190	Integrated Circuit	U65,U68		43.803003	2	6834791.244197
143ALC8920	Integrated Circuit	U58	12.9	105.135171	1	4890963.916048
143NCP6980	Integrated Circuit	U95		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U47,U49,U73,U74		43.803003	4	3879156.910661
1447511B00	Integrated Circuit	U22	22.6	194.009162	1	2650453.850644
144KABN001	Integrated Circuit	U1	20.1	49.961938	1	10292081.395340
14696435E0	Integrated Circuit	U6		11.063278	1	58231413.220643
14696435E0	Integrated Circuit	U23		11.063278	1	58231413.220643
14S2204200	Integrated Circuit	U25		43.803003	1	11739202.588727
14S3020901	Integrated Circuit	U24		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U40,U41,U79,U80,U97,U98		43.803003	6	2750969.191556
14S3112400	Integrated Circuit	U69		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U70		43.803003	1	11739202.588727
14S3128422	Integrated Circuit	U48		43.803003	1	11739202.588727
14S3524700	Integrated Circuit	U21		43.803003	1	11739202.588727
14S3524701	Integrated Circuit	U19		43.803003	1	11739202.588727
14S3832100	Integrated Circuit	U71	24.4	216.502313	1	2375089.308633
14S4081102	Integrated Circuit	U94		43.803003	1	11739202.588727

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S4186600	Integrated Circuit	U44		43.803003	1	11739202.588727
14S4811103	Integrated Circuit	U10,U14		43.803003	2	6834791.244197
14S4814380	Integrated Circuit	U45,U46		43.803003	2	6834791.244197
14S5A00704	Integrated Circuit	U75		26.018600	1	25551442.237972
14S5A00802	Integrated Circuit	U4		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U18,U26,U77		26.018600	3	9949526.289768
14S6324640	Integrated Circuit			43.803003	1	11739202.588727
14S9781800	Integrated Circuit	U63		43.803003	1	11739202.588727
1540722281	Resistor	RP1		9.971436	1	51606907.671214
1540733085	Resistor	RP2		9.971436	1	51606907.671214
1600030803	Connection	SW1(1234-off)		16.184835	1	35685591.360212
16515A2994	Connection	DIMM1		16.184835	1	35685591.360212
165251420B	Connection	CN5,CN6		16.184835	2	20390152.380746
1653002101	Connection	CN37,JP11,J P13,JP8, JP9		16.184835	5	9343344.843761
165300310G	Connection	CN9,JP1,JP2, JP3, JP4,JP5,JP6		16.184835	7	6941176.714407
165300320K	Connection	JP10,JP14		16.184835	2	20390152.380746
165300420Q	Connection	CN3		16.184835	1	35685591.360212
165321320G	Connection	CN22		16.184835	1	35685591.360212
1653300102	Connection	JP11(1-2), JP13(1- 2),JP2(2-3), JP5(2-3),JP8 (1-2)		16.184835	5	9343344.843761
1653300107	Connection	JP1(2- 3),JP10(3-4), JP14(3- 4),JP3(2-3), JP4(2-3),JP6 (2-3)		16.184835	6	7958792.615968
1653300108	Connection	CN9(1-2)		16.184835	1	35685591.360212
1654030006	Connection	CN11,CN14		16.184835	2	20390152.380746
1654226303	Connection	PCIE1A1,PCI E1A2		16.184835	2	20390152.380746
1654415305	Connection	CN32		16.184835	1	35685591.360212
1654418103	Connection	CN20		16.184835	1	35685591.360212
1654818301	Connection	CN16		16.184835	1	35685591.360212
1654903901	Connection	CN15		16.184835	1	35685591.360212
165490700G	Connection	CN17		16.184835	1	35685591.360212
1654920309	Connection	CN7		16.184835	1	35685591.360212
1655004018	Connection	CN2		16.184835	1	35685591.360212
1655302025	Connection	CN19		16.184835	1	35685591.360212
1655305025	Connection	CN10,CN13		16.184835	2	20390152.380746
1655404020	Connection	CN35		16.184835	1	35685591.360212
1655902034	Connection	CN33		16.184835	1	35685591.360212

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1655905038	Connection	USB1,USB2, USB3, USB4,USB5		16.184835	5	9343344.843761
1655906032	Connection	KB1		16.184835	1	35685591.360212
1655909034	Connection	CN21,CN23,C N30, CN31		16.184835	4	11344857.509064
1655910032	Connection	CN26,CN34		16.184835	2	20390152.380746
1655912032	Connection	CN24		16.184835	1	35685591.360212
175011901C	Miscellaneous	CN33-1		306.000000	1	1681683.006787
1752001603	Miscellaneous	FS3		2.400000	1	254626042.602335
1752002400	Miscellaneous	FS12,FS7		2.400000	2	143944727.196625
1752002500	Miscellaneous	FS11,FS8		2.400000	2	143944727.196625
1752002700	Miscellaneous	FS14,FS4,FS 5,FS6, FS9		2.400000	5	65101085.623547