

EPIC-KBS7

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8.711169 MTBF: 114,795 Hours
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Issue date	QE Manager	Test Engineer
2017-04-26	KJ Wang	Leo Liu

Reliability Prediction (MTBF)

I . Model Name: EPIC-KBS7

II . Prediction Date: April. 26, 2017

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

IV . Predicted by: Leo Liu

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-KBS7 (9697KBS700-D):

- Failure Rate: 8.711169
- MTBF: 114,795 Hours

**AAEON Reliability Prediction
Summary**

File Name: EPIC-KBS7.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
EPIC-KBS7	9697KBS700-D		1	8.711169	114,795

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501054	Resistor	R128,R146,R2,R56		0.002547	4	82309758.689546
1050501234	Resistor	R402		0.002547	1	282340674.079668
1050501634	Resistor	R322		0.002547	1	282340674.079668
1050502004	Resistor	R671		0.002547	1	282340674.079668
1050502204	Resistor	R497,R505,R512		0.002547	3	107020754.986850
1050502224	Resistor	R459,R460,R462,R464,R466,R467,R470,R473,R483,R504,R568,R577,R578,R584		0.002547	14	25477245.255648
1050502234	Resistor	R17,R415		0.002547	2	154078778.388085
1050502424	Resistor	R353,R667		0.002547	2	154078778.388085
1050502724	Resistor	R576		0.002547	1	282340674.079668
1050502734	Resistor	R212,R334		0.002547	2	154078778.388085
1050503634	Resistor	L4 L4		0.002547	1	282340674.079668
1050503934	Resistor	R160		0.002547	1	282340674.079668
1050504724	Resistor	R759		0.002547	1	282340674.079668
1050504734	Resistor	R190		0.002547	1	282340674.079668
1050505124	Resistor	R359,R525		0.002547	2	154078778.388085
1050505134	Resistor	R401,R426		0.002547	2	154078778.388085
1050505164	Resistor	R407,R414		0.002547	2	154078778.388085
1050505604	Resistor	R221		0.002547	1	282340674.079668
1050505633	Resistor	R442		0.002547	1	282340674.079668
1050507524	Resistor	R232		0.002547	1	282340674.079668
1050507530	Resistor	R226,R434		0.002547	2	154078778.388085
1050510034	Resistor	R134,R137,R183,R196,R34,R386,R404,R42,R438,R446,R453,R544,R582,R583,R617,R88		0.002547	16	22425139.809646
1050510714	Resistor	R215		0.002547	1	282340674.079668
1050511009	Resistor	R220		0.002547	1	282340674.079668
1050512104	Resistor	R635		0.002547	1	282340674.079668
1050512734	Resistor	R210		0.002547	1	282340674.079668
1050516014	Resistor	R202		0.002547	1	282340674.079668
1050516924	Resistor	R670		0.002547	1	282340674.079668
1050517414	Resistor	R668		0.002547	1	282340674.079668
1050518003	Resistor	R225		0.002547	1	282340674.079668

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1050518744	Resistor	R205		0.002547	1	282340674.079668
1050520504	Resistor	R661		0.002547	1	282340674.079668
1050522004	Resistor	R689		0.002547	1	282340674.079668
1050522124	Resistor	R231		0.002547	1	282340674.079668
1050524004	Resistor	R150,R664		0.002547	2	154078778.388085
1050524904	Resistor	R513,R514		0.002547	2	154078778.388085
1050524909	Resistor	R27,R66,R67		0.002547	3	107020754.986850
1050525514	Resistor	R214		0.002547	1	282340674.079668
1050527424	Resistor	R678		0.002547	1	282340674.079668
1050528714	Resistor	R516		0.002547	1	282340674.079668
1050528734	Resistor	R37		0.002547	1	282340674.079668
1050529464	Resistor	R223		0.002547	1	282340674.079668
1050530164	Resistor	R596		0.002547	1	282340674.079668
1050532434	Resistor	R421		0.002547	1	282340674.079668
1050533204	Resistor	R239		0.002547	1	282340674.079668
1050533234	Resistor	R613		0.002547	1	282340674.079668
1050537464	Resistor	R240		0.002547	1	282340674.079668
1050543264	Resistor	R765		0.002547	1	282340674.079668
1050545364	Resistor	R222		0.002547	1	282340674.079668
1050547004	Resistor	R197		0.002547	1	282340674.079668
1050547034	Resistor	R612		0.002547	1	282340674.079668
1050549904	Resistor	R5		0.002547	1	282340674.079668
1050549964	Resistor	R524		0.002547	1	282340674.079668
1050551004	Resistor	R211		0.002547	1	282340674.079668
1050556269	Resistor	R696		0.002547	1	282340674.079668
1050557614	Resistor	R230		0.002547	1	282340674.079668
1050560414	Resistor	R517		0.002547	1	282340674.079668
1050560424	Resistor	R241		0.002547	1	282340674.079668
1050561934	Resistor	R72		0.002547	1	282340674.079668
1050564924	Resistor	R40		0.002547	1	282340674.079668
1050568004	Resistor	R665		0.002547	1	282340674.079668
1050568034	Resistor	R615		0.002547	1	282340674.079668
1050578714	Resistor	R405		0.002547	1	282340674.079668
1050584514	Resistor	R180,R602		0.002547	2	154078778.388085
1050584524	Resistor	R238		0.002547	1	282340674.079668
1050593104	Resistor	R621,R623		0.002547	2	154078778.388085
1050701504	Resistor	R491,R493,R93		0.002547	3	107020754.986850
1050718034	Resistor	R450		0.002547	1	282340674.079668
1050756004	Resistor	R595		0.002547	1	282340674.079668
1053500282	Resistor	R411,R418,R430, R455,R71,R85		0.002547	6	56573956.677649
1059520001	Resistor	R358,R771		0.002547	2	154078778.388085
1059700001	Resistor	R274,R425,R675, R725		0.002547	4	82309758.689546

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1059700101	Resistor	R484,R537,R593, R643		0.002547	4	82309758.689546
1059710001	Resistor	R626		0.002547	1	282340674.079668
105A500103	Resistor	R106,R185,R437, R560,R659		0.002547	5	67008142.102588
105A500139	Resistor	R116,R122,R127, R133,R173,R175, R176,R177,R187, R188,R451,R542, R549,R573,R616, R636,R686,R742, R758		0.002547	19	19019185.781770
105A500239	Resistor	R60,R760		0.002547	2	154078778.388085
105A501003	Resistor	R45		0.002547	1	282340674.079668
105A501033	Resistor	R55		0.002547	1	282340674.079668
105A501039	Resistor	R103,R107,R119,R14, R168,R18,R22,R329, R350,R403,R410, R433,R441,R444, R457,R465,R511, R521,R548,R565, R590,R640,R685, R710,R713,R73,R74, R781,R99		0.002547	29	12652760.276502
105A501123	Resistor	R213		0.002547	1	282340674.079668
105A501139	Resistor	R427		0.002547	1	282340674.079668
105A501529	Resistor	R126		0.002547	1	282340674.079668
105A501539	Resistor	R1		0.002547	1	282340674.079668
105A501829	Resistor	R349,R354		0.002547	2	154078778.388085
105A502039	Resistor	R124,R131,R3,R304, R419,R488,R492, R515,R662,R763, R764,R97		0.002547	12	29507083.749401
105A502839	Resistor	R658		0.002547	1	282340674.079668

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105A503039	Resistor	R51		0.002547	1	282340674.079668
105A503309	Resistor	R153,R155,R532, R536,R550,R551		0.002547	6	56573956.677649
105A503423	Resistor	R397		0.002547	1	282340674.079668
105A504763	Resistor	R406		0.002547	1	282340674.079668
105A505109	Resistor	R169,R170,R171, R527,R534,R604		0.002547	6	56573956.677649
105A507509	Resistor	R245,R362,R363, R364		0.002547	4	82309758.689546
105A507533	Resistor	R63		0.002547	1	282340674.079668
105A510009	Resistor	R216,R217,R244, R526,R690,R84,R87		0.002547	7	48991237.965885
105A510223	Resistor	R400		0.002547	1	282340674.079668
105A511513	Resistor	R21		0.002547	1	282340674.079668
105A512003	Resistor	R545		0.002547	1	282340674.079668
105A524963	Resistor	R144,R633		0.002547	2	154078778.388085
105A530109	Resistor	R233		0.002547	1	282340674.079668
105A534819	Resistor	R435		0.002547	1	282340674.079668
105A534823	Resistor	R12		0.002547	1	282340674.079668
105A543233	Resistor	R164,R611		0.002547	2	154078778.388085
105A544229	Resistor	R125		0.002547	1	282340674.079668
105A547003	Resistor	R412		0.002547	1	282340674.079668
105A549919	Resistor	R298,R299		0.002547	2	154078778.388085
105A562034	Resistor	R10		0.002547	1	282340674.079668
105A563419	Resistor	R389		0.002547	1	282340674.079668
105A571523	Resistor	R224		0.002547	1	282340674.079668
105A590963	Resistor	R422		0.002547	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	FB16,R11,R115,R117,R154,R156,R157,R158,R165,R193,R198,R24,R250,R264,R36,R382,R390,R392,R393,R396,R4,R408,R409,R423,R428,R43,R431,R447,R458,R47,R476,R508,R510,R520,R530,R600,R606,R637,R68,R731,R734,R743,R745,R767,R768,R92,R96		0.002547	47	7918121.839508

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105A700009	Resistor	C362,R100,R15,R16,R161,R163,R166,R167,R178,R19,R191,R192,R194,R199,R201,R207,R209,R243,R247,R248,R256,R261,R267,R277,R282,R284,R29,R307,R313,R320,R325,R328,R330,R332,R333,R338,R340,R342,R344,R348,R377,R38,R385,R39,R391,R399,R420,R46,R471,R48		0.002547	83	4542343.752032
105A70000A	Resistor	R387		0.002547	1	282340674.079668
105A700109	Resistor	R641		0.002547	1	282340674.079668
105A700139	Resistor	R152,R234,R237,R258,R360,R384,R439,R456,R468,R477,R478,R479,R698,R700,R82,R90		0.002547	16	22425139.809646
105A700203	Resistor	R132		0.002547	1	282340674.079668
105A701009	Resistor	R208		0.002547	1	282340674.079668

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105A701039	Resistor	R218,R236,R242, R249,R252,R254, R257,R260,R262, R263,R265,R268, R269,R272,R273, R275,R276,R278, R279,R286,R288, R289,R291,R295, R310,R316,R317, R318,R32,R337,R351, R352,R454,R50,R609, R625,R634,R64, R644,R645,R646, R647, R649,R651,R653, R654,R655,R656, R66		0.002547	71	5292986.505825
105A701059	Resistor	R281,R303,R311, R314,R394		0.002547	5	67008142.102588
105A701069	Resistor	R121		0.002547	1	282340674.079668
105A702229	Resistor	R105,R111,R356, R357,R440,R448, R786,R787		0.002547	8	43225424.698300
105A702239	Resistor	R61		0.002547	1	282340674.079668
105A702269	Resistor	R200,R605,R610		0.002547	3	107020754.986850
105A703309	Resistor	R104,R110,R114, R246,R285,R373, R519,R666,R770, R772		0.002547	10	35079934.879747

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105A703329	Resistor	R701,R717,R718, R719,R727,R728, R740,R756		0.002547	8	43225424.698300
105A704729	Resistor	R283,R296,R300, R331,R336,R365, R366,R367,R368, R369,R370,R371, R372,R567,R581, R747,R753,R755		0.002547	18	20032117.836120
105A705139	Resistor	R292,R293,R305, R306,R308,R327, R775,R776		0.002547	8	43225424.698300
105A706829	Resistor	R375,R379		0.002547	2	154078778.388085
105A708229	Resistor	R112,R507,R509, R518,R523,R529, R555		0.002547	7	48991237.965885
105A710009	Resistor	R347		0.002547	1	282340674.079668
105A710039	Resistor	R312,R324,R341, R383,R388,R413, R416,R424,R429, R445,R463,R469,R48, R480,R683,R687, R694,R707,R721, R730,R735,R737, R757,R773,R774,R83, R89,R91		0.002547	28	13089488.559853
105A733009	Resistor	R271,R280,R290, R319,R321,R355, R361,R376,R378		0.002547	9	38754445.632391

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105A747009	Resistor	R195,R228,R294, R345,R41,R76		0.002547	6	56573956.677649
105A768009	Resistor	R181,R182,R184, R186		0.002547	4	82309758.689546
105B500172	Resistor	R417		0.002547	1	282340674.079668
105B700009	Resistor	R113,R129,R136, R138,R139,R140, R141,R142,R143, R145,R147,R148, R149,R151,R174, R189,R287,R301, R309,R31,R346,R49, R533,R539,R54, R546, R556,R569,R570, R571,R58,R594, R598, R702,R703,R704, R705,R782		0.002547	38	9736567.158302
105B701039	Resistor	R472,R474,R481, R485,R486,R487, R489,R75,R78		0.002547	9	38754445.632391
105B703309	Resistor	R572		0.002547	1	282340674.079668
106B510034		RT1,RT2,RT3,RT4		0.000000	4	0.000000
1121501690	Capacitor	C182,C261,C276, C327,C60		0.001129	5	159367490.199266

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1121501691	Capacitor	C106,C16,C180,C181,C186,C187,C188,C189,C19,C190,C191,C193,C194,C195,C198,C199,C202,C204,C206,C208,C209,C210,C211,C212,C213,C214,C215,C217,C218,C219,C220,C221,C222,C223,C224,C229,C230,C231,C238,C24,C241,C242,C243,C248,C251,C254,C257,C259,C26		0.001129	133	6519566.619397
1121647480	Capacitor	C589		0.001129	1	704977644.692287
1122522890	Capacitor	C123		0.001129	1	704977644.692287
1124410191	Capacitor	C244,C246,C260,C69,C72,C73,C75,C79,C86		0.001129	9	90863428.080946
1124418090	Capacitor	C110,C146,C147,C92		0.001129	4	196873384.410843
1124420090	Capacitor	C232,C240		0.001129	2	375289731.076049
1124427091	Capacitor	C200,C205,C226,C227		0.001129	4	196873384.410843
1124433090	Capacitor	C285		0.001129	1	704977644.692287
1124468090	Capacitor	C157,C585		0.001129	2	375289731.076049
1124522190	Capacitor	C171		0.001129	1	704977644.692287
1124522280	Capacitor	C380,C421,C520,C573		0.001129	4	196873384.410843
1124522680	Capacitor	C507,C526		0.001129	2	375289731.076049
1124533190	Capacitor	C329		0.001129	1	704977644.692287
1124539180	Capacitor	C581		0.001129	1	704977644.692287
1124547290	Capacitor	C349		0.001129	1	704977644.692287

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1129701791	Capacitor	C310,C314,C42,C565,C571,C587,C588,C592,C594,C596,C597,C599,C609,C613,C622,C626		0.001129	16	52112480.802928
1129710090	Capacitor	C408		0.001129	1	704977644.692287
1129710091	Capacitor	C237,C271,C272,C273,C278,C279,C280,C74		0.001129	8	101746760.035398
1129710391	Capacitor	C203,C284,C292,C343		0.001129	4	196873384.410843
1189615154	Capacitor	TC10,TC4,TC7,TC8,TC9		0.001129	5	159367490.199266
1189633151	Capacitor	C185		0.001129	1	704977644.692287
118A6221B0	Capacitor	TC2,TC3,TC6		0.001129	3	257514172.353070
118C6331B0	Capacitor	C345,C361,C363,TC5		0.001129	4	196873384.410843
118C639191	Capacitor	C153,C179,C383,C442,C521,C574,C71,C80		0.001129	8	101746760.035398
11A4422190	Capacitor	C3		0.001129	1	704977644.692287
11C1501030	Capacitor	C302,C316,C342		0.001129	3	257514172.353070
11C1539840	Capacitor	C627,C628		0.001129	2	375289731.076049
11C2522780	Capacitor	C296		0.001129	1	704977644.692287
11C4501380	Capacitor	C324		0.001129	1	704977644.692287
11C4501650	Capacitor	C22		0.001129	1	704977644.692287
11C4510480	Capacitor	C140,C20,C291,C33,C430,C548,C584,C66		0.001129	8	101746760.035398
11C4522290	Capacitor	C11,C317,C341,C348,C614,C637		0.001129	6	133979725.056342
11C4533380	Capacitor	C5		0.001129	1	704977644.692287

**Reliability Prediction
Summary**

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11C4547190	Capacitor	C201,C207,C228, C233,C234,C235, C250,C255,C258, C264,C266,C267, C268,C269,C270, C275		0.001129	16	52112480.802928
11C9582390	Capacitor	C304		0.001129	1	704977644.692287
11E1501040	Capacitor	C307		0.001129	1	704977644.692287
11E1501080	Capacitor	C13,C312,C43		0.001129	3	257514172.353070
11E1510050	Capacitor	C274,C286,C287, C365,C453		0.001129	5	159367490.199266
11E1522021	Capacitor	C295		0.001129	1	704977644.692287
11E2501080	Capacitor	C177,C299,C395,C48, C482,C598		0.001129	6	133979725.056342
11E2501690	Capacitor	C169,C173,C249,C25, C549,C567,C586, C660		0.001129	8	101746760.035398
11E2510010	Capacitor	C28,C334,C9		0.001129	3	257514172.353070
11E2610032	Capacitor	C2		0.001129	1	704977644.692287
11E4433090	Capacitor	C37,C671,C672		0.001129	3	257514172.353070
11E4510021	Capacitor	C319,C320,C321, C322,C385,C386, C387,C426,C427, C428,C529,C530, C531,C576,C577, C578		0.001129	16	52112480.802928
11E4547610	Capacitor	C360		0.001129	1	704977644.692287
11E9510490	Capacitor	C105,C176,C353, C354,C355,C356, C357,C393,C405,C56, C76,C77,C78,C81, C82,C84,C87,C89, C91,C96,C99		0.001129	21	40003791.624280

**Reliability Prediction
Summary**

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9522790	Capacitor	C674,C675,C676		0.001129	3	257514172.353070
11E9547490	Capacitor	C527,C547,C568, C575		0.001129	4	196873384.410843
11E9547790	Capacitor	C315		0.001129	1	704977644.692287
11E9610080	Capacitor	C111,C126,C135, C136,C149,C151, C170,C174,C196,C21, C236,C245,C326, C351,C352,C40,C47, C621,C625,C64,C647, C648,C649,C652, C661,C664,C665, C666,C667,C67,C673, C70		0.001129	32	26512863.286539
11E9622050	Capacitor	C183,C30,C318,C333, C59		0.001129	5	159367490.199266
11E9622080	Capacitor	C113,C120,C128, C133,C137,C142, C148,C154,C17,C225, C26,C32,C336,C337, C338,C339,C340, C366,C368,C377, C378,C379,C39,C403, C409,C416,C420,C46, C460,C479,C512, C522,C553,C554, C555,C556,C557, C558,C559,C560		0.001129	40	21305452.824644

**Reliability Prediction
Summary**

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EA501050	Capacitor	C376,C394,C429, C435,C439,C440, C443,C445,C446, C447,C448,C45, C452,C454,C455,C456, C458,C459,C461, C462,C463,C464, C465,C467,C468, C469,C470,C472, C474,C475,C476, C477,C478,C480, C481,C483,C485, C486,C487,C488, C489,C491,C492, C493,C495,C496, C497,C499,C		0.001129	67	12830544.216852
11EA510450	Capacitor	C369,C370,C373, C384,C389,C412, C451		0.001129	7	115633865.771428
11EA610030	Capacitor	C335		0.001129	1	704977644.692287

**Reliability Prediction
Summary**

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EA610040	Capacitor	C100,C101,C102, C103,C107,C108, C109,C115,C116, C117,C118,C119, C122,C124,C125, C127,C130,C134, C139,C141,C145, C150,C159,C160, C161,C162,C163, C164,C165,C166, C167,C168,C396, C397,C398,C399, C400,C401,C402, C413,C424,C436, C437,C444,C449, C450,C457,C466,		0.001129	85	10147209.588673
11EA647010	Capacitor	C138,C143,C308, C414,C422,C423, C602,C604,C605		0.001129	9	90863428.080946

File Name: EPIC-KBS7.rfp
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Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EB510640	Capacitor	C104,C112,C121, C129,C132,C144,C15, C155,C156,C158, C172,C197,C216, C262,C313,C358, C359,C371,C372, C374,C381,C388, C390,C391,C410, C417,C418,C419, C431,C432,C438, C441,C49,C546,C570, C616,C63,C635,C641, C650,C655,C656, C682,C83,C88,C98		0.001129	46	18574133.926778
11EB522011	Capacitor	C256		0.001129	1	704977644.692287
11EB522640	Capacitor	C114,C184		0.001129	2	375289731.076049
11EB610050	Capacitor	C1,C12,C14,C175, C23,C281,C282,C294, C297,C300,C375,C4, C407,C415,C425,C44, C50,C51,C52,C640, C654,C8		0.001129	22	38230892.707156
11EB622010	Capacitor	C192,C289,C305,C579		0.001129	4	196873384.410843
121110106Z	Inductor	L14	15.8	0.006572	1	116425561.255971
1211101573	Inductor	L4,L5,L6,L7		0.004944	4	43912872.424775
1211101573	Inductor	L4	7.3	0.005659	4	38363215.393990
121110336Y	Inductor	L11	20.1	0.007067	1	108267881.441698
121111007L	Inductor	L3	17.8	0.006800	1	112530259.540602
121111007M	Inductor	L13,L2		0.004944	2	83201062.149749
1211202700	Inductor	L10,L8,L9		0.004944	3	57363284.375370

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
Ref Des:
Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1212306030	Inductor	FB1,FB12,FB13,FB14,FB15,FB17,FB2		0.004944	7	25970990.056682
1212308054	Inductor	FB18,FB19		0.004944	2	83201062.149749
12123C0031	Inductor	FB10,FB11,FB20,FB21,FB9		0.004944	5	35631881.582999
12123D0001	Inductor	FB3,FB4,FB5,FB6,FB7,FB8		0.004944	6	30055900.223009
1214109000	Inductor	CH1,CH13,CH14,CH2,CH7,CH8		0.004944	6	30055900.223009
1214109004	Inductor	CH10,CH11,CH12,CH15,CH16,CH17,CH18,CH3,CH4,CH5,CH6,CH9		0.004944	12	15520616.516984
12310024A2	Miscellaneous	Y2		0.019200	1	23844262.770939
12310027A1	Miscellaneous	Y5		0.019200	1	23844262.770939
123132505D	Miscellaneous	Y3,Y4		0.019200	2	8854051.752197
1231332726	Miscellaneous	Y1		0.019200	1	23844262.770939
12330024A1	Miscellaneous	Y6		0.019200	1	23844262.770939
1301005440	Semiconductor	D23,D24		0.007793	2	50578095.223398
1301013040	Semiconductor	D1,D15,D17		0.007793	3	35106858.962001
1301400642	Semiconductor	D16		0.007793	1	92807310.010983
1301793040	Semiconductor	D11,D12,D13,D14,D9		0.007793	5	21965031.404253
1302008240	Semiconductor	D22		0.007793	1	92807310.010983
1304000043	Optical Device	LED1		0.079003	1	6497172.749112
1304300140	Optical Device	LED2		0.079003	1	6497172.749112
1304500240	Optical Device	LED3		0.079003	1	6497172.749112
130505ESD0	Semiconductor	D18,D19,U62,U63,U64		0.007793	5	21965031.404253
1305080040	Semiconductor	D3,D4,D5,D6,D7,D8		0.007793	6	18540453.699406
1310222211	Semiconductor	Q23,Q3		0.022463	2	17315095.066101
1310390412	Semiconductor	Q13,Q14,Q48		0.022463	3	12043329.789539
1311390612	Semiconductor	Q50,Q51		0.022463	2	17315095.066101
13150027N0	Semiconductor	Q26,Q29,Q36,Q37,Q38,Q39,Q42,Q43,Q45,Q46		0.022463	10	3960370.776745
13150027N0	Semiconductor	Q29	15.9	0.034187	10	2602234.328652
13150027N0	Semiconductor	Q38	13.4	0.032092	10	2772103.556896

File Name: EPIC-KBS7.rfp
Assembly: 9697KBS700-D
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Description:

Failure Rate: 8.711169
MTBF (hrs): 114,795
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
13150093N0	Semiconductor	Q35,Q40,Q41,Q47		0.022463	4	9270607.712006
13150093N0	Semiconductor	Q35	14	0.032586	4	6390740.310836
1315036640	Semiconductor	Q7		0.022463	1	31642600.748419
1315076980	Semiconductor	Q4		0.022463	1	31642600.748419
1315230511	Semiconductor	Q11,Q19,Q21,Q31		0.022463	4	9270607.712006
1315443512	Semiconductor	Q1,Q10,Q28,Q30		0.022463	4	9270607.712006
1315443512	Semiconductor	Q30	16.9	0.035053	4	5940920.322478
1315700216	Semiconductor	Q16,Q24,Q44,Q49,Q5,Q52,Q53,Q8		0.022463	8	4877097.849338
1315762010	Semiconductor	Q2,Q22		0.022463	2	17315095.066101
1315EM6K10	Semiconductor	Q12,Q17,Q18,Q32,Q33,Q34,Q9		0.022463	7	5525968.936223
1430006850	Integrated Circuit	U41		0.043803	1	11739202.588727
1430021850	Integrated Circuit	U2	14.9	0.119657	1	4297392.202823
1430036070	Integrated Circuit	U22		0.043803	1	11739202.588727
1430053250	Integrated Circuit	U59	12.2	0.100442	1	5119519.879336
1430082021	Integrated Circuit	U1,U42		0.043803	2	6834791.244197
1430087620	Integrated Circuit	U3		0.043803	1	11739202.588727
1430097420	Integrated Circuit	U49,U54,U56		0.043803	3	4923240.069161
1430455200	Integrated Circuit	U12,U21,U39,U7		0.043803	4	3879156.910661
1430532190	Integrated Circuit	U11	19	0.155219	1	3312826.750213
14309624F0	Integrated Circuit	U17,U24,U48,U51		0.043803	4	3879156.910661
143117ADJ0	Integrated Circuit	U50		0.043803	1	11739202.588727
143ALC8920	Integrated Circuit	U15	11	0.092834	1	5539077.639364
1440002130	Integrated Circuit	U55,U57,U61		0.043803	3	4923240.069161
1440033660	Integrated Circuit	U37		0.043803	1	11739202.588727
1440211AT0	Integrated Circuit	U25,U26		0.043803	2	6834791.244197
14407517A0	Integrated Circuit	U38		0.043803	1	11739202.588727
14482Q1700	Integrated Circuit	U16	10.9	0.092224	1	5575706.995224
14571G14D0	Integrated Circuit	U13		0.043803	1	11739202.588727
1462001280	Integrated Circuit	U18		0.043803	1	11739202.588727
14S1035803	Integrated Circuit	U58		0.043803	1	11739202.588727
14S2200900	Integrated Circuit	U60	4.5	0.059947	1	8577720.016817
14S3104500	Integrated Circuit	U19,U27,U28,U29,U30,U31,U32,U33,U34,U35,U36		0.043803	11	1620070.856968
14S3524701	Integrated Circuit	U10		0.043803	1	11739202.588727
14S3820700	Integrated Circuit	U40		0.043803	1	11739202.588727
14S3902500	Integrated Circuit	U4		0.043803	1	11739202.588727

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S4186600	Integrated Circuit	U52		0.043803	1	11739202.588727
14S4814380	Integrated Circuit	U53		0.043803	1	11739202.588727
14S5A00704	Integrated Circuit	U14		0.043803	1	11739202.588727
14S5A00821	Integrated Circuit	U20,U43,U44 ,U45, U46,U47,U5, U9		0.043803	8	2144463.783749
14S9346001	Integrated Circuit	U8		0.043803	1	11739202.588727
1540722281	Resistor	RP3		0.009971	1	51606907.671214
1540782282	Resistor	RP1,RP2		0.009971	2	30043399.401299
1651526003	Connection	DIMM1		0.016185	1	35685591.360212
1651900860	Integrated Circuit	U18		0.043803	1	11739202.588727
1752001603	Miscellaneous	FS2,FS3		0.002400	2	143944727.196625
1752002500	Miscellaneous	FS4		0.002400	1	254626042.602335