

AEC-6950

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 18236.338767 ppm MTBF: 54,836 Hours
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Issue date

Approval

Test Engineer

2014/07/08

Tom Lin

Max Chang

Reliability Prediction (MTBF)

I . Model Name: AEC-6950

II . Prediction Date: July, 08, 2014

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:

AEC-6950 (9697QM773R-D & DTXP6950E2-D):

- Failure Rate: 18236.338767 ppm
- MTBF: 54,836 Hours

**AAEON Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 18236.338767
MTBF (hrs): 54,836
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
AEC-6950	System		1	18236.338767	54,836
COM-QM77			1	5652.316765	176,919
DTXP6950			1	12932.806745	77,323

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 5652.316765
MTBF (hrs): 176,919
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050502224.0000 00000000000	Resistor	R154,R155,R157, R158,R162,R163, R164,R165,R166, R167,R168,R170, R244,R261,R262, R263,R264,R265, R266,R267,R268, R271,R272,R346, R470,R471,R485, R507,R594,R650, R669		2.547039	31	11861900.957214
1050502234.0000 00000000000	Resistor	R104,R112,R425, R676		2.547039	4	82309758.689546
1050504724.0000 00000000000	Resistor	R108,R241,R252, R253,R385,R386, R402,R429,R431, R435,R437,R438, R441,R442,R443, R491,R494,R497, R558,R559		2.547039	20	18104712.511396
1050504734.0000 00000000000	Resistor	R217,R319,R320, R444,R452,R457		2.547039	6	56573956.677649
1050505134.0000 00000000000	Resistor	R685		2.547039	1	282340674.079668
1050505604.0000 00000000000	Resistor	R5,R713		2.547039	2	154078778.388085
1050507530.0000 00000000000	Resistor	R579,R617		2.547039	2	154078778.388085

**Reliability Prediction
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File Name: AEC-6950.rfp
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MTBF (hrs): 176,919
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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050510034.0000 00000000000	Resistor	R246,R247,R 249, R250,R276,R 277, R296,R352,R 355, R548,R575,R 587, R598,R599,R 600, R601,R606,R 608, R625,R630,R 646, R647,R662,R 691, R694,R695,R 779, R780,R782,R 786, R806,R810,R 811		2.547039	33	11164784.962504
1050519114.0000 00000000000	Resistor	R711,R727		2.547039	2	154078778.388085
1050520004.0000 00000000000	Resistor	R136,R20,R7 ,R792, R794,R813		2.547039	6	56573956.677649
1050520034.0000 00000000000	Resistor	R327		2.547039	1	282340674.079668
1050524004.0000 00000000000	Resistor	R686		2.547039	1	282340674.079668
1050524904.0000 00000000000	Resistor	R1,R18		2.547039	2	154078778.388085
1050533034.0000 00000000000	Resistor	R114,R222		2.547039	2	154078778.388085
1050536514.0000 00000000000	Resistor	R748,R749,R 759, R766		2.547039	4	82309758.689546
1050549904.0000 00000000000	Resistor	R702,R716,R 730		2.547039	3	107020754.986850
1050595314.0000 00000000000	Resistor	R666		2.547039	1	282340674.079668
1050700334.0000 00000000000	Resistor	R496,R525,R 526		2.547039	3	107020754.986850
1050704304.0000 00000000000	Resistor	R23,R3,R37		2.547039	3	107020754.986850
1054700289.0000 00000000000	Resistor	R91		2.547039	1	282340674.079668
1059700001.0000 00000000000	Resistor	L7,L8,R29,R3 0,R31, R32		2.547039	6	56573956.677649

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1059702261.0000 00000000000	Resistor	R679,R743,R745, R757,R764		2.547039	5	67008142.102588
1059710001.0000 00000000000	Resistor	R566,R567,R568, R569,R570,R572		2.547039	6	56573956.677649
	Resistor	R100,R107,R129,R16, R160,R214,R24,R281, R304,R305,R348, R400,R419,R461, R513,R546,R551, R577,R59,R62,R660, R665,R696,R699, R791,R793,R795, R797,R798,R799,R84, R87,R88,R89,R94, R97,R99		2.547039	37	9991988.939157
	Resistor	R701,R729		2.547039	2	154078778.388085

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	Resistor	R117,R121,R122, R126,R135,R152, R159,R161,R17, R176,R178,R179,R182, R183,R184,R185, R186,R187,R188, R189,R19,R191,R192, R193,R194,R195, R196,R197,R198, R199,R201,R204, R206,R207,R209, R210,R211,R212, R216,R219,R243, R287,R288,R289, R290,R308,R313, R314,R3		2.547039	123	3087056.139107
	Resistor	R622,R710,R732		2.547039	3	107020754.986850
	Resistor	R420		2.547039	1	282340674.079668
	Resistor	R509		2.547039	1	282340674.079668
	Resistor	R703		2.547039	1	282340674.079668
	Resistor	R137		2.547039	1	282340674.079668
	Resistor	R115,R125,R127, R128,R130,R134, R141,R142,R306, R307,R309,R310, R537,R539,R542		2.547039	15	23852782.943395
	Resistor	R14		2.547039	1	282340674.079668
	Resistor	R735		2.547039	1	282340674.079668
	Resistor	R22,R36		2.547039	2	154078778.388085
	Resistor	R593		2.547039	1	282340674.079668

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	Resistor	R40,R43,R48 6,R521, R522,R556,R 654		2.547039	7	48991237.965885
	Resistor	R21,R35,R71 4		2.547039	3	107020754.986850
	Resistor	R624		2.547039	1	282340674.079668
	Resistor	R4		2.547039	1	282340674.079668
	Resistor	R777		2.547039	1	282340674.079668
	Resistor	R273,R274,R 275		2.547039	3	107020754.986850
	Resistor	R684		2.547039	1	282340674.079668
	Resistor	R689		2.547039	1	282340674.079668
	Resistor	R298		2.547039	1	282340674.079668
	Resistor	R260		2.547039	1	282340674.079668
	Resistor	R6		2.547039	1	282340674.079668
	Resistor	R712,R728		2.547039	2	154078778.388085
	Resistor	R592		2.547039	1	282340674.079668
	Resistor	R719,R724		2.547039	2	154078778.388085
	Resistor	R733		2.547039	1	282340674.079668
	Resistor	R401,R718,R 723		2.547039	3	107020754.986850
	Resistor	R335		2.547039	1	282340674.079668
	Resistor	R590		2.547039	1	282340674.079668
	Resistor	R708		2.547039	1	282340674.079668
	Resistor	R28		2.547039	1	282340674.079668
	Resistor	R138,R220		2.547039	2	154078778.388085
	Resistor	R683		2.547039	1	282340674.079668
	Resistor	R736		2.547039	1	282340674.079668
	Resistor	R589		2.547039	1	282340674.079668
	Resistor	R140,R221		2.547039	2	154078778.388085
	Resistor	R705		2.547039	1	282340674.079668
	Resistor	R203		2.547039	1	282340674.079668
	Resistor	R33,R49,R53 ,R557, R561,R596,R 658, R688,R740,R 741, R754,R762		2.547039	12	29507083.749401

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	Resistor	R101,R25,R26,R27,R34,R369,R371,R373,R374,R378,R389,R393,R395,R41,R42,R45,R459,R46,R463,R50,R51,R54,R55,R552,R571,R574,R581,R582,R603,R609,R612,R615,R618,R621,R626,R632,R644,R645,R648,R649,R652,R657,R659,R675,R677,R680,R687,R715,R720,R726, R7		2.547039	61	6139957.583645
	Resistor	R721		2.547039	1	282340674.079668
	Resistor	R370,R372,R48,R52,R613,R700,R706,R750,R751,R760, R767		2.547039	11	32049696.385471
	Resistor	R113,R202,R258,R259,R583		2.547039	5	67008142.102588
	Resistor	R146,R278,R279,R280,R493,R514, R555		2.547039	7	48991237.965885
	Resistor	R106,R547		2.547039	2	154078778.388085
	Resistor	R430,R432,R433		2.547039	3	107020754.986850
	Resistor	R620,R627,R682		2.547039	3	107020754.986850
	Resistor	R2		2.547039	1	282340674.079668

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1121501690.0000 000000000000	Resistor	R119,R208,R213, R282,R283,R284, R285,R286,R291, R292,R293,R456		2.547039	12	29507083.749401
	Resistor	R704,R734		2.547039	2	154078778.388085
	Resistor	R446,R447		2.547039	2	154078778.388085
	Resistor	R12,R120,R123,R132, R133,R139,R143, R144,R147,R15, R153,R156,R169, R171, R173,R175,R177, R180,R181,R225, R226,R228,R230, R231,R232,R234, R235,R237,R294, R295,R299,R300, R301,R302,R303, R322,R323,R349, R38,R380,R381, R384, R387,R39,R403, R404, R406,R408,R411,		2.547039	88	4289167.908760
	Resistor	RT1,RT2,RT4,RT6		2.547039	4	82309758.689546
	Resistor	RT5,RT7		2.547039	2	154078778.388085
	Capacitor	C373,C383,C385, C408,C417,C418, C426,C430,C437, C461,C465,C481		1.128806	12	68856937.301178

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1121647480.0000 00000000000	Capacitor	C476		1.128806	1	704977644.692287
1124418090.0000 00000000000	Capacitor	C136,C138,C 176, C177		1.128806	4	196873384.410843
1124433090.0000 00000000000	Capacitor	C300,C303		1.128806	2	375289731.076049
1124515180.0000 00000000000	Capacitor	C458,C478		1.128806	2	375289731.076049
1124522680.0000 00000000000	Capacitor	C400,C427,C 462, C488,C489,C 495, C535		1.128806	7	115633865.771428
1124522880.0000 00000000000	Capacitor	C244,C477		1.128806	2	375289731.076049
1124533190.0000 00000000000	Capacitor	C454		1.128806	1	704977644.692287
1124547190.0000 00000000000	Capacitor	C455,C474		1.128806	2	375289731.076049
1124547290.0000 00000000000	Capacitor	C387,C434		1.128806	2	375289731.076049
1124582880.0000 00000000000	Capacitor	C463		1.128806	1	704977644.692287
1129522790.0000 00000000000	Capacitor	C308,C309,C 310, C311,C312,C 313, C314,C315,C 316, C317,C318,C 319, C320,C321,C 322, C323,C324,C 325, C326,C327,C 328, C329,C330,C 331, C332,C333,C 334, C335,C336,C 337, C338,C339,C 464, C470,C471,C 472		1.128806	36	23624151.295955

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1129610080.0000 00000000000	Capacitor	C108,C109,C118, C119,C120,C121, C122,C123,C132, C133,C20,C21,C22, C23,C240,C250,C264, C290,C301,C306,C33, C34,C35,C355,C36, C37,C380,C407,C412, C413,C431,C443, C444,C449,C451, C452,C522,C523, C524,C525,C526, C527,C528,C529, C532,C533,C534, C542,C543,C566,		1.128806	77	11186508.104394
1129701790.0000 00000000000	Capacitor	C141,C142,C143, C144,C145,C146, C147,C148,C149, C150,C151,C152, C153,C154,C155, C156,C247,C249, C258,C349,C379, C381,C382,C389, C392,C428,C429, C432,C442,C482, C552,C555		1.128806	32	26512863.286539
1129710090.0000 00000000000	Capacitor	C352,C357,C358		1.128806	3	257514172.353070

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1129710390.0000 00000000000	Capacitor	C360,C401,C 402, C421,C447,C 490, C491,C496,C 544		1.128806	9	90863428.080946
1129747090.0000 00000000000	Capacitor	C456,C475		1.128806	2	375289731.076049
1189615151.0000 00000000000	Capacitor	TC11,TC13,T C14, TC16,TC21,T C9		4.744484	6	31179134.677521
1189622150.0000 00000000000	Capacitor	C279,C284		1.128806	2	375289731.076049
1189622153.0000 00000000000	Capacitor	TC18,TC20		4.744484	2	86049450.747498
1189633163.0000 00000000000	Capacitor	TC1,TC19,TC 24,TC3, TC31,TC8		4.744484	6	31179134.677521
1189656180.0000 00000000000	Capacitor	TC25,TC26,T C27, TC28,TC29,T C30, TC32,TC33,T C34,TC5, TC6,TC7		4.744484	12	16120395.545571
1189922181.0000 00000000000	Capacitor	TC10		4.744484	1	159663026.715137
	Capacitor	C469		1.128806	1	704977644.692287
	Capacitor	C3		1.128806	1	704977644.692287
	Capacitor	C399,C422		1.128806	2	375289731.076049
	Capacitor	C375,C377,C 484, C485,C486,C 487, C493,C494,C 530, C531		1.128806	10	82101057.548118
	Capacitor	C374,C376,C 406, C565		1.128806	4	196873384.410843
	Capacitor	C372		1.128806	1	704977644.692287
	Capacitor	C479		1.128806	1	704977644.692287
	Capacitor	C397,C602		1.128806	2	375289731.076049

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	Capacitor	C10,C104,C105,C106,C107,C11,C112,C128,C129,C13,C130,C131,C137,C139,C14,C140,C15,C16,C17,C18,C181,C19,C241,C248,C25,C252,C26,C263,C265,C266,C267,C268,C27,C270,C271,C272,C273,C274,C28,C280,C281,C282,C283,C285,C286,C287,C29,C293,C299,C30,C31,C32		1.128806	113	7659680.663840

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	Capacitor	C1,C100,C101,C102,C103,C110,C111,C112,C114,C116,C124,C125,C126,C127,C134,C135,C157,C158,C159,C160,C161,C162,C163,C164,C165,C166,C167,C168,C169,C170,C171,C172,C173,C175,C182,C183,C186,C187,C188,C189,C190,C191,C2,C208,C209,C210,C211,C212,C213		1.128806	131	6618034.546177
	Capacitor	C113,C433,C438,C560,C89		1.128806	5	159367490.199266

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	Capacitor	C243,C259,C262,C269,C394,C395,C414,C419,C420,C423,C436,C497,C498,C499,C500,C501,C503,C504,C505,C506,C507,C508,C509,C510,C512,C513,C514,C576,C577,C579,C580,C581,C582,C583,C585,C586,C587,C588,C589,C590,C591,C592, C603		1.128806	43	19845816.558772
1211000180.000000000000000000	Inductor	L22		4.944252	1	154760964.143460
1211100113.000000000000000000	Inductor	L2,L5,L6		4.944252	3	57363284.375370
1211100160.000000000000000000	Inductor	L3		4.944252	1	154760964.143460
1211101064.000000000000000000	Inductor	L16	50.9	11.293449	1	67754070.698245
	Inductor	L14		4.944252	1	154760964.143460
1211103671.000000000000000000	Inductor	L18	29	8.165159	1	93712466.344443
1211103671.000000000000000000	Inductor	L17,L19,L20		4.944252	3	57363284.375370
	Inductor	L11,L15		4.944252	2	83201062.149749
	Inductor	L9		4.944252	1	154760964.143460
1211105675.000000000000000000	Inductor	L13		4.944252	1	154760964.143460
	Inductor	L1		4.944252	1	154760964.143460
	Inductor	Y2,Y3		4.944252	2	83201062.149749
1231332722.000000000000000000	Inductor	Y1,Y4		4.944252	2	83201062.149749

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1301005444.0000 00000000000	Inductor	D1,D17,D2,D29,D3,D30,D5,D6,D7,D8		4.944252	10	18485101.557872
1301005447.0000 00000000000	Inductor	D11,D24		4.944252	2	83201062.149749
1301005450.0000 00000000000	Inductor	D10,D12,D13,D14,D15,D16,D18,D19,D20,D21,D22,D23,D25,D26,D27,D4,D9		4.944252	17	11096095.548648
1301053040.0000 00000000000	Inductor	D28		4.944252	1	154760964.143460
1304001340.0000 00000000000	Inductor	LED1,LED2		4.944252	2	83201062.149749
1304300140.0000 00000000000	Inductor	LED3		4.944252	1	154760964.143460
1309009940.0000 00000000000	Inductor	Q10,Q9		4.944252	2	83201062.149749
1310390413.0000 00000000000	Inductor	Q14,Q15,Q51,Q55,Q75,Q76		4.944252	6	30055900.223009
1311390612.0000 00000000000	Inductor	Q8		4.944252	1	154760964.143460
1315013810.0000 00000000000	Inductor	Q7		4.944252	1	154760964.143460
1315033510.0000 00000000000	Inductor	Q2,Q3,Q4		4.944252	3	57363284.375370
1315035110.0000 00000000000	Inductor	Q45		4.944252	1	154760964.143460
1315482110.0000 00000000000	Inductor	Q30,Q39,Q41,Q70		4.944252	4	43912872.424775
1315482410.0000 00000000000	Inductor	Q31,U44,U59		4.944252	3	57363284.375370
1315493511.0000 00000000000	Inductor	Q42		4.944252	1	154760964.143460
1315493910.0000 00000000000	Inductor	Q40		4.944252	1	154760964.143460
1315495710.0000 00000000000	Inductor	Q32		4.944252	1	154760964.143460
1315667910.0000 00000000000	Inductor	Q37		4.944252	1	154760964.143460

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 5652.316765
MTBF (hrs): 176,919
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315700216.0000 00000000000	Inductor	Q1,Q12,Q13, Q16,Q17, Q18,Q19,Q2 0,Q21, Q22,Q23,Q2 4,Q25, Q26,Q27,Q2 9,Q34, Q35,Q36,Q3 8,Q44, Q50,Q56,Q5 7,Q68, Q69,Q71,Q7 2,Q73, Q74,Q77,Q7 8,Q79, Q81,Q82		4.944252	35	5501829.888641
1315805710.0000 00000000000	Inductor	Q60,Q61,Q6 3,Q65		4.944252	4	43912872.424775
1315806210.0000 00000000000	Inductor	Q53		4.944252	1	154760964.143460
1315806510.0000 00000000000	Inductor	Q52		4.944252	1	154760964.143460
1315806511.0000 00000000000	Inductor	Q33,Q58,Q5 9,Q62, Q64		4.944252	5	35631881.582999
	Integrated Circuit	U26		11.063278	1	58231413.220643
	Integrated Circuit	U36		43.803003	1	11739202.588727
	Integrated Circuit	U46		43.803003	1	11739202.588727
	Integrated Circuit	U37		43.803003	1	11739202.588727
	Integrated Circuit	U14		43.803003	1	11739202.588727
	Integrated Circuit	U43		43.803003	1	11739202.588727
	Integrated Circuit	U39		43.803003	1	11739202.588727
	Integrated Circuit	U41		43.803003	1	11739202.588727
	Integrated Circuit	U33		43.803003	1	11739202.588727
	Integrated Circuit	U56		43.803003	1	11739202.588727
	Integrated Circuit	U1	47.6	133.882309	1	3840778.776661
	Integrated Circuit	U23		43.803003	1	11739202.588727
	Integrated Circuit	U32		43.803003	1	11739202.588727
	Integrated Circuit	U31		43.803003	1	11739202.588727
	Integrated Circuit	U10	32.7	353.612858	1	1454167.510820
	Integrated Circuit	U13,U27		43.803003	2	6834791.244197
	Integrated Circuit	U11,U12		43.803003	2	6834791.244197
	Integrated Circuit	U22,U49,U50 ,U51, U52,U53,U54 ,U55, U57,U58		43.803003	10	1762784.467435
	Integrated Circuit	U15		43.803003	1	11739202.588727
	Integrated Circuit	U25,U28,U29		43.803003	3	4923240.069161

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 5652.316765
MTBF (hrs): 176,919
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Integrated Circuit			43.803003	1	11739202.588727
	Integrated Circuit			43.803003	1	11739202.588727
	Integrated Circuit	U38,U42		43.803003	2	6834791.244197
	Integrated Circuit	U17,U18,U20,U21		43.803003	4	3879156.910661
	Integrated Circuit	U47		43.803003	1	11739202.588727
1540782282.0000 00000000000	Resistor	RP1,RP2		9.971436	2	30043399.401299
1600000403.0000 00000000000	Connection	SW1		16.184835	1	35685591.360212
1651520401.0000 00000000000	Connection	CN2		16.184835	1	35685591.360212
	Connection	CN3		16.184835	1	35685591.360212
1653212100.0000 00000000000	Connection	CN1		16.184835	1	35685591.360212
	Connection	CN4,CN5		16.184835	2	20390152.380746
1655902122.0000 00000000000	Connection	BAT1		16.184835	1	35685591.360212
1655902130.0000 00000000000	Connection	CN6		16.184835	1	35685591.360212
1655907130.0000 00000000000	Connection	CN7		16.184835	1	35685591.360212
	Connection			16.184835	1	35685591.360212

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050502224.0000 00000000000	Resistor	R136,R137		2.547039	2	154078778.388085
1050504724.0000 00000000000	Resistor	R110,R112,R 212, R321,R322,R 324, R325,R331,R 342		2.547039	9	38754445.632391
1050505124.0000 00000000000	Resistor	R334		2.547039	1	282340674.079668
1050510034.0000 00000000000	Resistor	R197,R198,R 333, R339,R506,R 507, R512,R514,R 519, R521,R523,R 604		2.547039	12	29507083.749401
1050547004.0000 00000000000	Resistor	R1010,R1014 ,R1018, R1022		2.547039	4	82309758.689546
1050702734.0000 00000000000	Resistor	R496		2.547039	1	282340674.079668
1050747012.0000 00000000000	Resistor	R1011,R1015 ,R1019, R1023		2.547039	4	82309758.689546
1050756004.0000 00000000000	Resistor	R1155,R1156 ,R1157, R1158,R1159 ,R1160, R1161,R1162 ,R349, R350,R351,R 352		2.547039	12	29507083.749401
1052510719.0000 00000000000	Resistor	R1008,R1012 ,R1016, R1020		2.547039	4	82309758.689546
1052730009.0000 00000000000	Resistor	R1117,R1118 ,R1119, R1120		2.547039	4	82309758.689546
1053501289.0000 00000000000	Resistor	R527		2.547039	1	282340674.079668
1054600289.0000 00000000000	Resistor	R42,R43		2.547039	2	154078778.388085
1054700289.0000 00000000000	Resistor	R499		2.547039	1	282340674.079668
1059522001.0000 00000000000	Resistor	R446		2.547039	1	282340674.079668
1059700001.0000 00000000000	Resistor	R410		2.547039	1	282340674.079668

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1059700201.0000 00000000000	Resistor	R515		2.547039	1	282340674.079668
1059710001.0000 00000000000	Resistor	R447,R448		2.547039	2	154078778.388085
	Resistor	R546,R561		2.547039	2	154078778.388085
	Resistor	R1112,R1116 ,R119, R120,R233,R 244, R249,R253,R 256, R311,R371,R 445, R449,R455,R 456, R459,R462,R 465, R545,R554,R 555, R556,R557,R 564		2.547039	24	15190138.820515
	Resistor	R115		2.547039	1	282340674.079668
	Resistor	R550		2.547039	1	282340674.079668
	Resistor	R1088,R1096 ,R1153, R116,R117,R 1177, R236,R237,R 241, R242,R243,R 245, R246,R247,R 255, R304,R309,R 329, R330,R335,R 344, R345,R346,R 382, R402,R404,R 45,R497, R79,R80,R81 ,R82, R83,R84,R85 ,R87, R88,R90,R91 ,R93, R98		2.547039	41	9043562.562696
	Resistor	R504,R509		2.547039	2	154078778.388085
	Resistor	R520		2.547039	1	282340674.079668
	Resistor	R444		2.547039	1	282340674.079668
	Resistor	R508		2.547039	1	282340674.079668
	Resistor	R1178,R1179		2.547039	2	154078778.388085

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R298,R307,R543		2.547039	3	107020754.986850
	Resistor	R111,R113,R114, R1152,R511, R892		2.547039	6	56573956.677649
	Resistor	R100,R1175, R312, R567,R99		2.547039	5	67008142.102588
	Resistor	R118,R235,R250, R251,R252,R29, R30, R31,R32,R360, R485, R486,R487,R488, R63, R64,R66,R67, R68, R69,R70,R71, R72, R73		2.547039	24	15190138.820515
	Resistor	R565		2.547039	1	282340674.079668
	Resistor	R552,R553		2.547039	2	154078778.388085
	Resistor	R306		2.547039	1	282340674.079668
	Resistor	R131,R132,R133, R291,R292,R296, R297,R301,R302		2.547039	9	38754445.632391
	Resistor	R370,R391		2.547039	2	154078778.388085
	Resistor	R528		2.547039	1	282340674.079668
	Resistor	R679		2.547039	1	282340674.079668
	Resistor	R568		2.547039	1	282340674.079668
	Resistor	R500,R505		2.547039	2	154078778.388085
	Resistor	R128,R129,R130		2.547039	3	107020754.986850
	Resistor	R516		2.547039	1	282340674.079668
	Resistor	R525		2.547039	1	282340674.079668
	Resistor	R1009,R1013, R1017, R1021		2.547039	4	82309758.689546
	Resistor	R94		2.547039	1	282340674.079668
	Resistor	R103,R105,R234, R258,R259		2.547039	5	67008142.102588
	Resistor	R503		2.547039	1	282340674.079668

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R54,R55,R56 ,R57, R58,R59,R60 ,R61, R62,R65		2.547039	10	35079934.879747
	Resistor	R549		2.547039	1	282340674.079668
	Resistor	R209,R214,R 272, R278,R356,R 357, R539,R547,R 562, R589,R590,R 591		2.547039	12	29507083.749401
	Resistor	C315,C316,C 318, C326,R10,R1 1,R1166, R1176,R1182 ,R12, R138,R139,R 140, R144,R145,R 146, R147,R150,R 151, R152,R153,R 154, R163,R165,R 166, R168,R169,R 170, R171,R172,R 173, R174,R175,R 178, R188,R191,R 192, R193,R194,R 203, R204,R205,R 206, R217,R218,R 219,R22, R220,R		2.547039	107	3540274.720688
	Resistor	R1180,R1181		2.547039	2	154078778.388085

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R1087,R1095, R1104, R1108,R1109, R1110, R374,R386,R 388, R389,R395,R 408, R409,R412,R 420, R422,R434,R 437, R891		2.547039	19	19019185.781770
	Resistor	R317		2.547039	1	282340674.079668
	Resistor	R501,R502,R 517, R518		2.547039	4	82309758.689546
	Resistor	R1082,R1086, R1105, R1106,R1107, R1111, R1163,R1164, R1165, R134,R135,R 379, R384,R385,R 387, R406,R407,R 411, R425,R427,R 442, R443		2.547039	22	16518584.576317
	Resistor	R124,R125,R 126, R127		2.547039	4	82309758.689546
	Resistor	R142,R143,R 161, R162,R167,R 176, R186,R187,R 299, R300,R491,R 602		2.547039	12	29507083.749401
	Resistor	R494		2.547039	1	282340674.079668
	Resistor	R305,R308,R 310, R338,R355,R 513		2.547039	6	56573956.677649

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R1000,R1113 ,R1114, R1115,R149, R179, R207,R279,R 280, R283,R285,R 289, R290,R313,R 358, R361,R362,R 363, R364,R369,R 37,R372, R373,R383,R 390, R393,R394,R 405, R417,R418,R 419, R432,R433,R 436,R50, R51,R538,R5 69,R570, R579,R580,R 586		2.547039	42	8834121.532637
	Resistor	R490,R493		2.547039	2	154078778.388085
	Resistor	R529,R532,R 533		2.547039	3	107020754.986850
	Resistor	R122,R123		2.547039	2	154078778.388085
	Resistor	R287,R414,R 415, R428,R429,R 479, R480,R481,R 482		2.547039	9	38754445.632391
	Resistor	R492		2.547039	1	282340674.079668
	Resistor	R148,R177,R 281, R282,R284,R 286, R450,R46,R4 7,R888, R889,R893		2.547039	12	29507083.749401
	Resistor	R196,R199,R 263, R268,R270,R 274, R275,R276,R 544, R688,R698		2.547039	11	32049696.385471

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R377,R380,R398, R403		2.547039	4	82309758.689546
	Resistor	R421,R426,R435, R441		2.547039	4	82309758.689546
	Resistor	RT1,RT2		2.547039	2	154078778.388085
1111647191.0000 00000000000	Capacitor	C89		1.128806	1	704977644.692287
1114633130.0000 00000000000	Capacitor	C286,C287		1.128806	2	375289731.076049
	Capacitor	C94		1.128806	1	704977644.692287
1121501680.0000 00000000000	Capacitor	C263,C265,C266, C267,C310,C311, C312,C313		1.128806	8	101746760.035398
1121501690.0000 00000000000	Capacitor	BC1,BC10,BC11,BC12, BC126,BC127,BC129, BC13,BC14,B C15, BC16,BC17,B C18, BC189,BC19,BC191, BC2,BC20,BC21,BC22, BC23,BC24,B C25, BC26,BC27,B C28, BC29,BC3,BC30,BC31, BC34,BC35,B C4,BC5, BC6,BC7,BC8,BC9, C103,C107,C110, C112,C113,C114, C115,C116,C117, C118,C120, C293,C302,C304, C406,C413,C416		1.128806	171	5083505.691791
1121610061.0000 00000000000	Capacitor	C293,C302,C304, C406,C413,C416		1.128806	6	133979725.056342
1121610180.0000 00000000000	Capacitor	C37,C38,C39,C40		1.128806	4	196873384.410843
1122601680.0000 00000000000	Capacitor	BC37,BC38		1.128806	2	375289731.076049

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1124410190.0000 00000000000	Capacitor	C168,C170,C 183, C184,C187,C 190, C291,C294		1.128806	8	101746760.035398
1124427090.0000 00000000000	Capacitor	C109,C119,C 200,C48, C49,C50,C53 ,C54, C55,C56		1.128806	10	82101057.548118
1124501780.0000 00000000000	Capacitor	C131,C133		1.128806	2	375289731.076049
1124522280.0000 00000000000	Capacitor	C586,C587		1.128806	2	375289731.076049
1124533190.0000 00000000000	Capacitor	C136,C137,C 139, C140,C268,C 269, C270,C271		1.128806	8	101746760.035398
1129610051.0000 00000000000	Capacitor	C100,C104,C 108, C111,C122,C 129, C130,C134,C 135,C16, C167,C171,C 173, C177,C198,C 199, C314,C320,C 321, C327,C328,C 333, C338,C341,C 342, C352,C353,C 355,C75, C76,C83,C84 ,C9,C93, C96,TC2		1.128806	36	23624151.295955
1129610080.0000 00000000000	Capacitor	TC27,TC28		4.744484	2	86049450.747498

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1129701690.0000 00000000000	Capacitor	C213,C214,C215, C216,C217,C218, C219,C220,C221, C222,C223,C224, C225,C226,C227, C228,C550,C552, C553,C554,C555, C570		1.128806	22	38230892.707156
1129701790.0000 00000000000	Capacitor	C261,C295,C303		1.128806	3	257514172.353070
1129710090.0000 00000000000	Capacitor	C45,C46,C47,C51, C52,C57,C58		1.128806	7	115633865.771428
1129747090.0000 00000000000	Capacitor	C299		1.128806	1	704977644.692287
1161627100.0000 00000000000	Capacitor	C410,C414		1.128806	2	375289731.076049
1169656132.0000 00000000000	Capacitor	C405,C412		1.128806	2	375289731.076049
1174522180.0000 00000000000	Capacitor	CP1,CP2,CP3,CP4		1.128806	4	196873384.410843
1181610090.0000 00000000000	Capacitor	C407		1.128806	1	704977644.692287
1181610191.0000 00000000000	Capacitor	EC3		4.744484	1	159663026.715137
1181627193.0000 00000000000	Capacitor	EC32		4.744484	1	159663026.715137
1181633112.0000 00000000000	Capacitor	C290,C298		1.128806	2	375289731.076049
1181647080.0000 00000000000	Capacitor	C24,C7		1.128806	2	375289731.076049
	Capacitor	EC1		1.128806	1	704977644.692287
1189622152.0000 00000000000	Capacitor	C317		1.128806	1	704977644.692287
1189922181.0000 00000000000	Capacitor	C319,C411		1.128806	2	375289731.076049
	Capacitor	C148,C151,C154, C157		1.128806	4	196873384.410843
	Capacitor	C262		1.128806	1	704977644.692287
	Capacitor	C194		1.128806	1	704977644.692287
	Capacitor	C296,C301		1.128806	2	375289731.076049
	Capacitor	C282,C339		1.128806	2	375289731.076049
	Capacitor	C288		1.128806	1	704977644.692287

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Capacitor	C12,C2,C20, C21,C22, C4,C5		1.128806	7	115633865.771428
	Capacitor	BC32,BC33,C 10,C101, C105,C11,C1 7,C18, C19,C3,C325 ,C329, C335,C343,C 346, C357,C366,C 368, C408,C415,C 85,C86, C87		1.128806	23	36609385.175833
	Capacitor	TC29,TC30		4.744484	2	86049450.747498
	Capacitor	C275,C279,C 281, C284,C289,C 292, C305		1.128806	7	115633865.771428
	Capacitor	C276,C278,C 280, C285,C306		1.128806	5	159367490.199266
	Capacitor	C549,C558,C 559, C560,C561		1.128806	5	159367490.199266
	Capacitor	TC1		4.744484	1	159663026.715137
	Capacitor	C551,C575,C 585		1.128806	3	257514172.353070
	Capacitor	C26,C33		1.128806	2	375289731.076049
	Capacitor	C297,C300		1.128806	2	375289731.076049
	Capacitor	C162,C163,C 178, C179,C180,C 181		1.128806	6	133979725.056342
	Capacitor	C102,C106,C 23,C283, C334,C337,C 356, C358,C409,C 6,C88		1.128806	11	74892583.279796
	Capacitor	C97,C98		1.128806	2	375289731.076049
	Capacitor	C175,C176,C 182, C185,C186,C 188, C189,C191,C 192, C193,C259,C 323, C324,C41,C8		1.128806	15	55479656.844874

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
Ref Des:
Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1211100110.0000 00000000000	Capacitor	C77,C80		1.128806	2	375289731.076049
	Inductor	L14		4.944252	1	154760964.143460
1212306030.0000 00000000000	Inductor	L16		4.944252	1	154760964.143460
	Inductor	L27		4.944252	1	154760964.143460
	Inductor	FB8,FB9		4.944252	2	83201062.149749
	Inductor	FB29,FB30,L29,L30		4.944252	4	43912872.424775
1212306032.0000 00000000000	Inductor	FB1,FB2,FB3,FB4		4.944252	4	43912872.424775
	Inductor	L4,L5,L6,L7,L8,L9		4.944252	6	30055900.223009
1214216190.0000 00000000000	Inductor	FB10,FB11,FB12,FB13,L1,L10,L11,L12,L2,L3		4.944252	10	18485101.557872
	Inductor	FB5,FB6,FB7		4.944252	3	57363284.375370
	Inductor	L13		4.944252	1	154760964.143460
1214309008.0000 00000000000	Inductor	CH1,CH10,CH2,CH7,CH8,CH9		4.944252	6	30055900.223009
	Inductor	CH3,CH4,CH5,CH6		4.944252	4	43912872.424775
1233348051.0000 00000000000	Miscellaneous	Y1		19.200000	1	23844262.770939
	Miscellaneous	OSC1,OSC2		19.200000	2	8854051.752197
1300414841.0000 00000000000	Semiconductor	U83,U90		7.793411	2	50578095.223398
	Semiconductor	D45,D46		7.793411	2	50578095.223398
1300414848.0000 00000000000	Semiconductor	D48,D49		7.793411	2	50578095.223398
1301002240.0000 00000000000	Semiconductor	D54		7.793411	1	92807310.010983
1301003440.0000 00000000000	Semiconductor	D50,D51,D82		7.793411	3	35106858.962001
1301005440.0000 00000000000	Semiconductor	D2,D5,D52,D8		7.793411	4	26989084.126235
1301005442.0000 00000000000	Semiconductor	D15,D79,D80,D81		7.793411	4	26989084.126235
1301005444.0000 00000000000	Semiconductor	D39,D40,D55,D56,D78		7.793411	5	21965031.404253
1301013041.0000 00000000000	Semiconductor	D38		7.793411	1	92807310.010983
1301400541.0000 00000000000	Semiconductor	D1,D58,D59,D60		7.793411	4	26989084.126235

File Name: AEC-6950.rfp
Assembly:
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Description:

Failure Rate: 12932.806745
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1301400642.0000 00000000000	Semiconductor	D4,D41,D42, D7		7.793411	4	26989084.126235
	Semiconductor	D83		7.793411	1	92807310.010983
1302005641.0000 00000000000	Semiconductor	D47		7.793411	1	92807310.010983
1304101440.0000 00000000000	Optical Device	LED2,LED3,L ED4		79.003355	3	2725958.067754
1304451400.0000 00000000000	Optical Device	D14		79.003355	1	6497172.749112
1305040241.0000 00000000000	Semiconductor	D21,D22,D23 ,D24, D25,D26,D27 ,D28		7.793411	8	14161142.003130
1305100541.0000 00000000000	Semiconductor	D29,D3,D30, D31,D32, D33,D34,D35 ,D36,D6, D9,U22,U23, U24,U25		7.793411	15	7809407.629947
	Semiconductor	D44		7.793411	1	92807310.010983
1310390410.0000 00000000000	Semiconductor	Q18,Q19,Q2 5,Q31, Q47,Q53		22.463360	6	6378891.324740
1310390413.0000 00000000000	Semiconductor	Q24,Q30,Q3 6,Q37, Q42,Q43		22.463360	6	6378891.324740
1311138610.0000 00000000000	Semiconductor	Q14,Q15		22.463360	2	17315095.066101
1311390610.0000 00000000000	Semiconductor	Q20,Q27		22.463360	2	17315095.066101
1311390612.0000 00000000000	Semiconductor	Q21,Q26,Q3 2,Q33, Q38,Q39		22.463360	6	6378891.324740
1315044910.0000 00000000000	Semiconductor	Q61,Q83,Q8 4,Q85, Q87		22.463360	5	7551839.591592
1315230511.0000 00000000000	Semiconductor	Q48		22.463360	1	31642600.748419
1315441012.0000 00000000000	Semiconductor	Q9		22.463360	1	31642600.748419
1315567011.0000 00000000000	Semiconductor	Q51,Q52,Q5 4,Q56		22.463360	4	9270607.712006
1315668510.0000 00000000000	Semiconductor	Q70		22.463360	1	31642600.748419
1315686110.0000 00000000000	Semiconductor	U18,U19,U20 ,U21		22.463360	4	9270607.712006
1315700211.0000 00000000000	Semiconductor	Q10,Q11		22.463360	2	17315095.066101

**Reliability Prediction
Summary**

File Name: AEC-6950.rfp
Assembly:
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Description:

Failure Rate: 12932.806745
MTBF (hrs): 77,323
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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315700216.0000 00000000000	Semiconductor	Q1,Q2,Q22,Q23,Q28,Q29,Q3,Q34,Q35,Q4,Q40,Q41,Q44,Q45,Q46,Q65,Q66,Q71,Q72		22.463360	19	2149533.403027
1315700217.0000 00000000000	Semiconductor	Q49,Q5,Q50,Q58,Q6,Q7		22.463360	6	6378891.324740
1315762010.0000 00000000000	Semiconductor	Q86		22.463360	1	31642600.748419
1315806511.0000 00000000000	Semiconductor	Q81,Q82		22.463360	2	17315095.066101
1315889612.0000 00000000000	Semiconductor	Q55,Q57		22.463360	2	17315095.066101
1469128350.0000 00000000000	Integrated Circuit	U33	23.7	207.490461	1	2478245.630277
	Integrated Circuit	CN16		11.063278	1	58231413.220643
	Integrated Circuit	U7		43.803003	1	11739202.588727
	Integrated Circuit	U75	40.6	551.777368	1	931919.936584
	Integrated Circuit	U74	40.6	551.777368	1	931919.936584
	Integrated Circuit	U10,U12,U13,U9		43.803003	4	3879156.910661
	Integrated Circuit	U76		43.803003	1	11739202.588727
	Integrated Circuit	U70		43.803003	1	11739202.588727
	Integrated Circuit	U69		43.803003	1	11739202.588727
	Integrated Circuit	U71		43.803003	1	11739202.588727
	Integrated Circuit	Q59		43.803003	1	11739202.588727
	Integrated Circuit	U1	38.6	493.956104	1	1041008.149559
	Integrated Circuit	U37,U46,U48,U49,U50,U51,U53		43.803003	7	2408529.736257
	Integrated Circuit	U52	19.3	158.161082	1	3251193.792283
	Integrated Circuit	U36,U44		43.803003	2	6834791.244197
	Integrated Circuit	U40	10.9	92.223700	1	5575706.995224
	Integrated Circuit	U35	23.4	203.732623	1	2523956.754802
	Integrated Circuit	U45,U56,U58,U61,U63		43.803003	5	3214211.402100
	Integrated Circuit	U34	39.1	507.878627	1	1012470.897638
	Integrated Circuit	U16		43.803003	1	11739202.588727
	Integrated Circuit	U64		43.803003	1	11739202.588727
	Integrated Circuit	U73		43.803003	1	11739202.588727
Integrated Circuit	U67,U68		43.803003	2	6834791.244197	
Integrated Circuit	U2		43.803003	1	11739202.588727	
Integrated Circuit	U39,U43,U55,U60		43.803003	4	3879156.910661	
Integrated Circuit	U31		43.803003	1	11739202.588727	

**Reliability Prediction
Summary**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Integrated Circuit	U65		43.803003	1	11739202.588727
	Integrated Circuit	U66		43.803003	1	11739202.588727
	Integrated Circuit	U38,U42,U54, U59		43.803003	4	3879156.910661
	Integrated Circuit	U41,U47,U57, U62		43.803003	4	3879156.910661
	Integrated Circuit	U77		43.803003	1	11739202.588727
	Integrated Circuit	U17		43.803003	1	11739202.588727
	Integrated Circuit	ISO2,ISO4,IS O6, ISO8		43.803003	4	3879156.910661
	Integrated Circuit	ISO1,ISO10,I SO3, ISO5,ISO7,IS O9		43.803003	6	2750969.191556
	Integrated Circuit	U72,U88		43.803003	2	6834791.244197
	Integrated Circuit	U89		43.803003	1	11739202.588727
	Integrated Circuit	U82	27	253.138845	1	2031345.011911
	Integrated Circuit	U11,U8		43.803003	2	6834791.244197
1540710080.0000 00000000000	Resistor	RP10,RP11,R P12, RP13,RP14,R P15, RP16,RP17,R P18,RP7, RP8,RP9		9.971436	12	6588713.101045
1540710280.0000 00000000000	Resistor	RP1,RP2		9.971436	2	30043399.401299
1540733085.0000 00000000000	Resistor	RP3,RP4,RP5 ,RP6		9.971436	4	17049357.262242
1600030203.0000 00000000000	Connection	SW1		16.184835	1	35685591.360212
1651508010.0000 00000000000	Connection	CN40		16.184835	1	35685591.360212
1651901660.0000 00000000000	Connection	CN16		16.184835	1	35685591.360212
1652003101.0000 00000000000	Connection	CN28		16.184835	1	35685591.360212
1652010100.0000 00000000000	Connection	CN29		16.184835	1	35685591.360212
1652522202.0000 00000000000	Connection	CN12		16.184835	1	35685591.360212
1652532207.0000 00000000000	Connection	CN13		16.184835	1	35685591.360212
1653002101.0000 00000000000	Connection	J1		16.184835	1	35685591.360212
1653003101.0000 00000000000	Connection	JP1,JP13,JP5 ,JP8, JP9		16.184835	5	9343344.843761
1653003201.0000 00000000000	Connection	JP16,JP17,JP 3,JP4		16.184835	4	11344857.509064

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653003202.0000 00000000000	Connection	JP11,JP12		16.184835	2	20390152.380746
	Connection	CN34		16.184835	1	35685591.360212
1653005209.0000 00000000000	Connection	CN38		16.184835	1	35685591.360212
	Connection	DIO1		16.184835	1	35685591.360212
1653207204.0000 00000000000	Connection	CN39		16.184835	1	35685591.360212
1653212100.0000 00000000000	Connection	CN18		16.184835	1	35685591.360212
1653300102.0000 00000000000	Connection	JP5(2-3),JP8 (1-2), JP9(2-3)		16.184835	3	14515880.849373
1653300107.0000 00000000000	Connection	JP1(1-2),JP11(5-6), JP12(5-6), JP13(1-2), JP16(1-2), JP16(3-4), JP16(5-6), JP17(1-2), JP17(3-4), JP17(5-6),JP3(1-2), JP3(3-4),JP3 (5-6), JP4(1-2), JP4(3-4), JP4(5-6)		16.184835	16	3277426.782195
1653924110.0000 00000000000	Connection	CN9		16.184835	1	35685591.360212
1654030003.0000 00000000000	Connection	CN17		16.184835	1	35685591.360212
	Connection	CN2,CN3		16.184835	2	20390152.380746
1654218200.0000 00000000000	Connection	PCIE1		16.184835	1	35685591.360212
1654226303.0000 00000000000	Connection	CN5,CN6		16.184835	2	20390152.380746
1654282206.0000 00000000000	Connection	CN8		16.184835	1	35685591.360212
1654409103.0000 00000000000	Connection	CN19,CN26		16.184835	2	20390152.380746
1654458300.0000 00000000000	Connection	CN4		16.184835	1	35685591.360212
1654808309.0000 00000000000	Connection	CN30		16.184835	1	35685591.360212
1654903900.0000 00000000000	Connection	CN7		16.184835	1	35685591.360212
1654907004.0000 00000000000	Connection	SATA1,SATA 2		16.184835	2	20390152.380746

**Reliability Prediction
Summary**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1655004014.0000 00000000000	Connection	FAN1		16.184835	1	35685591.360212
1655004110.0000 00000000000	Connection	CN10,CN11		16.184835	2	20390152.380746
1655103010.0000 00000000000	Connection	CN31		16.184835	1	35685591.360212
1655305020.0000 00000000000	Connection	CN32		16.184835	1	35685591.360212
1655306023.0000 00000000000	Connection	CN27		16.184835	1	35685591.360212
1655404020.0000 00000000000	Connection	CN33		16.184835	1	35685591.360212
1655909031.0000 00000000000	Connection	CN20,CN21,C N22, CN23,CN24,C N25		16.184835	6	7958792.615968
	Miscellaneous	BATTERY1		306.000000	1	1681683.006787
1750220323.0000 00000000000	Connection	BT1		16.184835	1	35685591.360212
1752000501.0000 00000000000		FS10,FS9		0.000000	2	0.000000
1752001603.0000 00000000000		FS1,FS12,FS 13,FS2, FS3		0.000000	5	0.000000
1752001900.0000 00000000000		F1,F2		0.000000	2	0.000000
1752310000.0000 00000000000		FS17,FS18,F S19, FS20		0.000000	4	0.000000
1759100007.0000 00000000000		BUZZ1		0.000000	1	0.000000