

FWS-7360

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 7021.903920 MTBF: 142,412 Hours
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Issue date	QE Manager	Test Engineer
2018-06-28	KJ Wang	Aslen Hsieh

Reliability Prediction (MTBF)

I . Model Name: FWS-7360

II . Prediction Date: Jun. 28, 2018

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

IV . Predicted by: Aslen Hsieh

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:

FWS-7360 (M/B: 9697736005-D):

- Failure Rate: 7021.903920

- MTBF: 142,412 Hours

**AAEON Reliability Prediction
Summary**

File Name: FWS-7360.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 7021.903920
MTBF (hrs): 142,412
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
FWS-7360	9697736005-D		1	7021.903920	142,412

File Name: FWS-7360.rfp
Assembly: 9697736005-D
Ref Des:
Description:

Failure Rate: 7021.903920
MTBF (hrs): 142,412
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050200134	Resistor	R554,R564		2.547039	2	154078778.388085
1050500104	Resistor	R123,R167,R248		2.547039	3	107020754.986850
1050501054	Resistor	R389,R599		2.547039	2	154078778.388085
1050501234	Resistor	R439		2.547039	1	282340674.079668
1050501354	Resistor	R202		2.547039	1	282340674.079668
1050501634	Resistor	R1		2.547039	1	282340674.079668
1050502204	Resistor	R585		2.547039	1	282340674.079668
1050502224	Resistor	R126,R172,R177, R186,R26,R358,R359, R360,R361,R372		2.547039	10	35079934.879747
1050502734	Resistor	R620		2.547039	1	282340674.079668
1050503324	Resistor	R142,R16,R374,R375, R376,R377,R378, R379,R380,R381, R382,R383,R384, R385,R390,R405, R422,R634,R635, R636,R637,R638, R639,R643,R663, R664,R665,R666, R667,R668,R95,R98		2.547039	32	11502702.879433
1050503334	Resistor	R394,R419,R536, R644,R645,R646, R656,R657,R658		2.547039	9	38754445.632391
1050503934	Resistor	R132,R135,R216, R217,R219,R83		2.547039	6	56573956.677649

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1050504724	Resistor	R233,R346,R347, R352,R39,R693,R695, R696,R698,R699, R701,R702,R704		2.547039	13	27342571.921361
1050504724-00	Resistor	R431,R434,R435, R674		2.547039	4	82309758.689546
1050505134-00	Resistor	R52		2.547039	1	282340674.079668
1050505164	Resistor	R109,R149,R171, R288		2.547039	4	82309758.689546
1050505604	Resistor	R610		2.547039	1	282340674.079668
1050505633	Resistor	R84		2.547039	1	282340674.079668
1050506224	Resistor	R139,R27		2.547039	2	154078778.388085
1050506234	Resistor	R532		2.547039	1	282340674.079668
1050508224	Resistor	R538		2.547039	1	282340674.079668
1050510004	Resistor	R102,R104,R175, R176,R284,R285, R548,R560,R582		2.547039	9	38754445.632391
1050510024	Resistor	R185,R237,R245, R253,R263,R270, R280,R304,R305, R323,R325,R330, R331,R350,R355, R364,R365,R43,R583, R592,R602,R606, R607,R619,R622, R625,R631,R632, R672		2.547039	29	12652760.276502
1050510034	Resistor	R134,R148,R258, R371,R615,R654, R660,R679,R684		2.547039	9	38754445.632391
1050511304	Resistor	R586		2.547039	1	282340674.079668
1050512104	Resistor	R598		2.547039	1	282340674.079668
1050512734	Resistor	R75		2.547039	1	282340674.079668

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1050513724	Resistor	R566		2.547039	1	282340674.079668
1050514034	Resistor	R113		2.547039	1	282340674.079668
1050515034	Resistor	R138,R218,R220,R85,R87		2.547039	5	67008142.102588
1050516004	Resistor	R415,R416,R417,R418,R444,R449,R450,R451,R453,R454,R463,R501,R502,R509,R511,R689,R690,R707,R708,R718		2.547039	20	18104712.511396
1050516524	Resistor	R613		2.547039	1	282340674.079668
1050520004	Resistor	R107,R169,R286,R332,R333,R549		2.547039	6	56573956.677649
1050520014	Resistor	R541		2.547039	1	282340674.079668
1050520034	Resistor	R714		2.547039	1	282340674.079668
1050522034	Resistor	R128		2.547039	1	282340674.079668
1050522104	Resistor	R594		2.547039	1	282340674.079668
1050524324	Resistor	R86		2.547039	1	282340674.079668
1050524909	Resistor	R23		2.547039	1	282340674.079668
1050533004	Resistor	R452,R499,R500,R510,R512,R711,R712,R8		2.547039	8	43225424.698300
1050533034	Resistor	R424,R51		2.547039	2	154078778.388085
1050533064	Resistor	R289,R307,R313,R326,R344		2.547039	5	67008142.102588
1050545334	Resistor	R201		2.547039	1	282340674.079668
1050547004	Resistor	R336,R337		2.547039	2	154078778.388085
1050549904	Resistor	R197		2.547039	1	282340674.079668
1050549964	Resistor	R115,R397,R412,R595		2.547039	4	82309758.689546
1050554934	Resistor	R78		2.547039	1	282340674.079668
1050590914	Resistor	R200,R529,R77		2.547039	3	107020754.986850
1050593114	Resistor	R203,R88		2.547039	2	154078778.388085
1050595314	Resistor	R130		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050700004	Resistor	R188,R189,R198, R199,R300,R301		2.547039	6	56573956.677649
1050701034	Resistor	R106,R111,R153, R174,R181,R271, R302,R543,R603,R94		2.547039	10	35079934.879747
1053500282	Resistor	R544		2.547039	1	282340674.079668
1059700001	Resistor	R40		2.547039	1	282340674.079668
105A500103	Resistor	R7		2.547039	1	282340674.079668
105A500139	Resistor	R207,R224,R235, R236,R266,R267, R293,R314,R316, R327,R523,R525, R527,R55,R552,R553, R559,R562,R574, R593,R605,R612,R63, R66,R688,R69		2.547039	26	14061076.827148
105A501039	Resistor	R150,R160,R187, R194,R204,R208, R209,R25,R257,R265, R283,R306,R36,R37, R432,R447,R53,R531, R533,R534,R537, R540,R546,R551, R556,R565,R608, R609,R670,R671, R680,R681,R682, R683,R685,R687, R692,R705,R706		2.547039	39	9493970.778443

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105A501323	Resistor	R309		2.547039	1	282340674.079668
105A501529	Resistor	R96		2.547039	1	282340674.079668
105A501539	Resistor	R140,R196,R20,R414,R423,R441,R443		2.547039	7	48991237.965885
105A502039	Resistor	R195,R3		2.547039	2	154078778.388085
105A502263	Resistor	R34		2.547039	1	282340674.079668
105A502839	Resistor	R322		2.547039	1	282340674.079668
105A503039	Resistor	R547,R621,R626		2.547039	3	107020754.986850
105A503309	Resistor	R430,R440,R662,R691		2.547039	4	82309758.689546
105A505109	Resistor	R182,R183,R184,R191,R555,R558		2.547039	6	56573956.677649
105A508233	Resistor	R33		2.547039	1	282340674.079668
105A510009	Resistor	R124,R29		2.547039	2	154078778.388085
105A512009	Resistor	R117		2.547039	1	282340674.079668
105A512039	Resistor	R122,R32		2.547039	2	154078778.388085
105A512133	Resistor	R342		2.547039	1	282340674.079668
105A513323	Resistor	R156,R230		2.547039	2	154078778.388085
105A515009	Resistor	R215,R22,R229,R496,R497,R498,R9		2.547039	7	48991237.965885
105A516213	Resistor	R545		2.547039	1	282340674.079668
105A516903	Resistor	R591		2.547039	1	282340674.079668
105A517813	Resistor	R73,R74		2.547039	2	154078778.388085
105A517823	Resistor	R119		2.547039	1	282340674.079668
105A518229	Resistor	R319		2.547039	1	282340674.079668
105A523239	Resistor	R528		2.547039	1	282340674.079668
105A523723	Resistor	R164,R234		2.547039	2	154078778.388085
105A526114	Resistor	R105,R604		2.547039	2	154078778.388085
105A529429	Resistor	R118		2.547039	1	282340674.079668
105A539203	Resistor	R535		2.547039	1	282340674.079668
105A544229	Resistor	R567		2.547039	1	282340674.079668
105A549919	Resistor	R421,R436,R437,R438,R677		2.547039	5	67008142.102588
105A588733	Resistor	R81		2.547039	1	282340674.079668
105A700003	Resistor	R513,R542,R6,R627,R633,R649		2.547039	6	56573956.677649

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105A700009	Resistor	R101,R108,R120, R129,R136,R14, R144,R145,R15,R152, R155,R157,R158,R159, R161,R162,R163, R165,R170,R193,R21, R210,R222,R226, R227,R228,R238,R24, R240,R242,R243, R246,R249,R250, R254,R255,R259, R260,R262,R268, R274,R275,R277, R281,R282,R287, R292,R294,R295,		2.547039	127	2991386.832227
105A70000A	Resistor	R2		2.547039	1	282340674.079668
105A700139	Resistor	R13,R406,R429,R50		2.547039	4	82309758.689546
105A701039	Resistor	R131,R221,R256, R386,R387,R391, R395,R396,R399, R407,R409,R410, R426,R611,R647, R648,R653,R655, R659,R82		2.547039	20	18104712.511396
105A701069	Resistor	R624		2.547039	1	282340674.079668
105A702269	Resistor	R114,R151,R173, R225,R291,R303, R521		2.547039	7	48991237.965885
105A702433	Resistor	R46		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A703309	Resistor	R279,R425,R427, R428,R669		2.547039	5	67008142.102588
105A705129	Resistor	R121,R127,R28,R35		2.547039	4	82309758.689546
105A705639	Resistor	R133		2.547039	1	282340674.079668
105A710009	Resistor	R232		2.547039	1	282340674.079668
105A710039	Resistor	R42,R442,R713		2.547039	3	107020754.986850
105A733009	Resistor	R470,R720		2.547039	2	154078778.388085
105A747009	Resistor	R697,R703		2.547039	2	154078778.388085
105A756039	Resistor	R19		2.547039	1	282340674.079668
106B510034	Resistor	RT1,RT2,RT3,RT4, RT5,RT6,RT7		2.547039	7	48991237.965885
106BA01033	Resistor	R308,R550		2.547039	2	154078778.388085
1112610102	Capacitor	C12,C40,C41,C42,C43		1.128806	5	159367490.199266
1121415090	Capacitor	C215		1.128806	1	704977644.692287
1121501680	Capacitor	C122,C178,C229		1.128806	3	257514172.353070
1121501690	Capacitor	C101,C103,C104, C106,C107,C165, C207,C232,C233, C234,C235,C236, C247,C276,C313, C341,C35,C36,C387, C403,C415,C423, C425,C431,C456, C465,C466,C469,C47, C470,C471,C472, C473,C475,C476, C477,C479,C480, C484,C486,C49,C494, C498,C499,C501, C504,C505,C511,C52,		1.128806	71	12117956.097294

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1121501691	Capacitor	C452,C453,C468,C474,C639		1.128806	5	159367490.199266
1121533480	Capacitor	C334,C379,C444		1.128806	3	257514172.353070
1124412090	Capacitor	C459,C464		1.128806	2	375289731.076049
1124427090	Capacitor	C267,C268,C269,C272,C273,C274,C556,C562		1.128806	8	101746760.035398
1124433090	Capacitor	C183,C186		1.128806	2	375289731.076049
1124433190	Capacitor	C120,C179,C230		1.128806	3	257514172.353070
1124468090	Capacitor	C5		1.128806	1	704977644.692287
1124533280	Capacitor	C137,C14		1.128806	2	375289731.076049
1129522790	Capacitor	C293,C576,C584,C618		1.128806	4	196873384.410843
1129601080	Capacitor	C1,C46		1.128806	2	375289731.076049
1129610080	Capacitor	C100,C154,C155,C162,C163,C164,C172,C175,C177,C189,C190,C192,C193,C200,C201,C202,C203,C218,C219,C251,C252,C343,C348,C363,C367,C368,C369,C370,C375,C376,C377,C392,C393,C394,C395,C396,C405,C406,C407,C408,C409,C416,C430,C449,C495,C503,C512,C517,		1.128806	69	12464035.316736

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1129610260	Capacitor	C298,C299,C624, C627,C635,C636, C637,C638		1.128806	8	101746760.035398
1129701690	Capacitor	C18,C248,C271,C281, C308,C54		1.128806	6	133979725.056342
1129701790	Capacitor	C51,C58		1.128806	2	375289731.076049
1129710090	Capacitor	C119,C170,C222, C290		1.128806	4	196873384.410843
1129710390	Capacitor	C115,C148,C212		1.128806	3	257514172.353070
1129722091	Capacitor	C288,C55		1.128806	2	375289731.076049
1174518180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6		1.128806	6	133979725.056342
1189615154	Capacitor	TC1,TC2		1.128806	2	375289731.076049
1189633151	Capacitor	C213,C349,C374, C389		1.128806	4	196873384.410843
1189656196	Capacitor	C11,C39		1.128806	2	375289731.076049
118C6331B2	Capacitor	C301,C303		1.128806	2	375289731.076049
11A4410241	Capacitor	C116,C158,C220		1.128806	3	257514172.353070
11A4420080	Capacitor	C243,C250		1.128806	2	375289731.076049
11A4422030	Capacitor	C105,C359,C441		1.128806	3	257514172.353070
11A4422190	Capacitor	C191		1.128806	1	704977644.692287
11C1410440	Capacitor	C302		1.128806	1	704977644.692287
11C1522390	Capacitor	C114,C147,C153, C211,C552		1.128806	5	159367490.199266
11C1539840	Capacitor	C256,C257,C258, C531		1.128806	4	196873384.410843
11C1547890	Capacitor	C7		1.128806	1	704977644.692287
11C2510480	Capacitor	C22		1.128806	1	704977644.692287
11C2522480	Capacitor	C188		1.128806	1	704977644.692287
11C4501790	Capacitor	C102,C123,C124, C125,C126,C127, C128,C129,C130,C19, C287,C75		1.128806	12	68856937.301178
11C4522240	Capacitor	C17		1.128806	1	704977644.692287
11C4522290	Capacitor	C135,C169,C210,C25		1.128806	4	196873384.410843
11C4547240	Capacitor	C112,C140,C196		1.128806	3	257514172.353070

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11C4556690	Capacitor	C21,C292		1.128806	2	375289731.076049
11C5510230	Capacitor	C113,C145,C156, C206		1.128806	4	196873384.410843
11C9510050	Capacitor	C314		1.128806	1	704977644.692287
11C9510490	Capacitor	C152,C159,C166, C199,C204,C216, C239,C240,C242, C244,C245,C253, C254,C255,C259, C260,C262,C264, C266,C270,C277, C278,C279,C280, C282,C283,C284, C285,C286,C294, C295,C296,C297, C300,C350,C352, C360,C362,C371, C382,C384,C397, C414,C421,C443, C481,C482,C500,		1.128806	123	7043658.420922
11C9522060	Capacitor	C108,C109		1.128806	2	375289731.076049
11CA501040	Capacitor	C263,C265,C275		1.128806	3	257514172.353070
11E1501040	Capacitor	C157		1.128806	1	704977644.692287
11E1510050	Capacitor	C13,C23,C24,C309, C312,C44,C45,C53		1.128806	8	101746760.035398
11E1522680	Capacitor	C595		1.128806	1	704977644.692287
11E2501030	Capacitor	C29		1.128806	1	704977644.692287
11E2501080	Capacitor	C50,C87		1.128806	2	375289731.076049
11E2501690	Capacitor	C117,C131,C142,C15, C160,C197,C225		1.128806	7	115633865.771428
11E2510010	Capacitor	C72,C99		1.128806	2	375289731.076049

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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E2610030	Capacitor	C335,C337		1.128806	2	375289731.076049
11E2610032	Capacitor	C134,C136,C168, C176,C205,C214, C345,C347,C351, C385,C390,C398, C442		1.128806	13	63728475.410842
11E4433090	Capacitor	C461,C463		1.128806	2	375289731.076049
11E4510440	Capacitor	C27,C30,C32,C33, C34,C630,C634		1.128806	7	115633865.771428
11E9501090	Capacitor	C485,C520		1.128806	2	375289731.076049
11E9522490	Capacitor	C315,C316,C317, C318,C319,C320, C321,C322,C323, C324,C325,C326, C327,C328,C329, C330,C445,C446, C447,C448,C450, C451,C496,C497		1.128806	24	35120617.936543
11E9522680	Capacitor	C161,C198,C224, C346		1.128806	4	196873384.410843
11E9610080	Capacitor	C478,C522		1.128806	2	375289731.076049
11E9622050	Capacitor	C208		1.128806	1	704977644.692287
11E9622052	Capacitor	C10,C261,C291,C304, C305,C306,C307, C566,C577,C625,C8, C9		1.128806	12	68856937.301178
11E9622060	Capacitor	C457,C489		1.128806	2	375289731.076049

**Reliability Prediction
Summary**

File Name: FWS-7360.rfp
Assembly: 9697736005-D
Ref Des:
Description:

Failure Rate: 7021.903920
MTBF (hrs): 142,412
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9622080	Capacitor	C16,C184,C185,C2,C209,C246,C28,C3,C331,C355,C356,C357,C358,C37,C38,C380,C386,C391,C4,C417,C418,C419,C48,C56,C57,C61,C70,C71,C80,C81,C82,C88		1.128806	32	26512863.286539
11EA610040	Capacitor	C6		1.128806	1	704977644.692287
11EA622640	Capacitor	C217		1.128806	1	704977644.692287
11EA647010	Capacitor	C180,C187,C60,C66,C67,C68,C69,C74,C76,C77,C78,C85,C86,C90,C91,C92,C94,C95,C96		1.128806	19	44097696.883526

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EB501040	Capacitor	C118,C121,C132, C133,C149,C150, C151,C167,C171, C221,C223,C228, C241,C249,C338, C339,C340,C353, C361,C364,C365, C366,C372,C373, C378,C383,C388, C399,C400,C401, C404,C410,C411, C412,C413,C422, C424,C426,C427, C428,C429,C432, C433,C434,C436, C437,C438,C439,		1.128806	53	16160213.088941
11EB522640	Capacitor	C226,C227,C342, C344		1.128806	4	196873384.410843
11EB610050	Capacitor	C141,C144,C173, C174,C181,C182, C458		1.128806	7	115633865.771428
11EB647020	Capacitor	C310,C311		1.128806	2	375289731.076049
121110106W	Inductor	L3,L8		4.944252	2	83201062.149749
121110226X	Inductor	L2		4.944252	1	154760964.143460
121110226Y	Inductor	L9		4.944252	1	154760964.143460
1211104271	Inductor	L4,L7		4.944252	2	83201062.149749
121110567G	Inductor	L1		4.944252	1	154760964.143460
1211105690	Inductor	L6		4.944252	1	154760964.143460
1211106879	Inductor	L5		4.944252	1	154760964.143460
1212306030	Inductor	FB10,FB11,F B12, FB13,FB14,F B9		4.944252	6	30055900.223009
12123A000D	Inductor	FB1		4.944252	1	154760964.143460

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
12123D0002	Inductor	FB3,FB4,FB5, FB6, FB8		4.944252	5	35631881.582999
12123D0008	Inductor	FB2,FB7		4.944252	2	83201062.149749
1214109007	Inductor	CH2,CH3,CH 5,CH6		4.944252	4	43912872.424775
1214309000	Inductor	CH1,CH4		4.944252	2	83201062.149749
12310025A3	Miscellaneous	Y1,Y2,Y4,Y5, Y7		19.200000	5	3616053.141544
1231332726	Miscellaneous	Y3		19.200000	1	23844262.770939
1252NS8920	Inductor	TF1,TF4,TF5, TF6, TF7		14.982581	5	11357516.895960
1301005440	Semiconductor	D2		7.793411	1	92807310.010983
1301053040	Semiconductor	D1		7.793411	1	92807310.010983
1304200043	Optical Device	LED3,LED4		79.003355	2	3783722.582110
1304400500	Optical Device	LED5		79.003355	1	6497172.749112
1304500240	Optical Device	LED1,LED2		79.003355	2	3783722.582110
1305040241	Semiconductor	U26,U27,U28 ,U29, U32,U33,U34 ,U35		7.793411	8	14161142.003130
1305100541	Semiconductor	U30,U31,U36 ,U37		7.793411	4	26989084.126235
1310222211	Semiconductor	Q11,Q12		22.463360	2	17315095.066101
1310390413	Semiconductor	Q33		22.463360	1	31642600.748419
1314108412	Semiconductor	U3		22.463360	1	31642600.748419
1315000530	Semiconductor	Q14,Q16,Q1 8,Q29		22.463360	4	9270607.712006
1315034430	Semiconductor	Q1,Q8		22.463360	2	17315095.066101
1315050311	Semiconductor	Q7		22.463360	1	31642600.748419
1315060301	Semiconductor	Q3,Q4,Q5		22.463360	3	12043329.789539
1315070020	Semiconductor	Q13,Q20,Q2 1,Q22, Q23,Q24,Q2 5,Q26, Q27,Q28,Q3 1,Q32		22.463360	12	3332353.664911
1315200312	Semiconductor	Q2		22.463360	1	31642600.748419
1315230211	Semiconductor	Q15,Q17,Q1 9,Q30		22.463360	4	9270607.712006
1315EM6K10	Semiconductor	Q10,Q6,Q9		22.463360	3	12043329.789539
1420096170	Integrated Circuit	U5		43.803003	1	11739202.588727
1430006850	Integrated Circuit	U10		43.803003	1	11739202.588727
1430080650	Integrated Circuit	U2,U25		43.803003	2	6834791.244197
1430082480	Integrated Circuit	U1		43.803003	1	11739202.588727
1430973950	Integrated Circuit	U12,U15,U7, U8		43.803003	4	3879156.910661
143TPS5360	Integrated Circuit	U14,U6,U9		43.803003	3	4923240.069161
1440038080	Integrated Circuit	U46		43.803003	1	11739202.588727

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1440211AT0	Integrated Circuit	U22,U24,U47		43.803003	3	4923240.069161
1440C37580	Integrated Circuit	U11		21.706765	1	23689035.791249
1440E15430	Integrated Circuit	U20		43.803003	1	11739202.588727
1462001282	Integrated Circuit	U17		43.803003	1	11739202.588727
1482640HC1	Integrated Circuit	U13		43.803003	1	11739202.588727
14S2750100	Integrated Circuit	U4		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U40,U41		43.803003	2	6834791.244197
14S4081102	Integrated Circuit	U18,U49		43.803003	2	6834791.244197
14S4872800	Integrated Circuit	U38		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U50		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U19,U42,U48		26.018600	3	9949526.289768
14S5A23200	Integrated Circuit	U51		26.018600	1	25551442.237972
1540710280	Resistor	RP2,RP6		9.971436	2	30043399.401299
1540710382	Resistor	RP10,RP11,R P12, RP13,RP14,R P15, RP21,RP22		9.971436	8	9424088.116087
1540722281	Resistor	RP19		9.971436	1	51606907.671214
1540733085	Resistor	RP20,RP5,RP 7,RP8, RP9		9.971436	5	14126297.426094
1540747285	Resistor	RP1,RP18,RP 3,RP4		9.971436	4	17049357.262242
1540775082	Resistor	RP16,RP17,R P23, RP24,RP25,R P26, RP27,RP28		9.971436	8	9424088.116087
1601110201	Connection	SW1		16.184835	1	35685591.360212
1651528812	Connection	DIMM1,DIM M3		16.184835	2	20390152.380746
1651528813	Connection	DIMM2,DIM M4		16.184835	2	20390152.380746
165251220B	Connection	CN21		16.184835	1	35685591.360212
1652824202	Connection	CN18,CN19		16.184835	2	20390152.380746
1652826200	Connection	CN15		16.184835	1	35685591.360212
165300210C	Connection	CN8		16.184835	1	35685591.360212
1653003101	Connection	JP1		16.184835	1	35685591.360212
1653003201	Connection	CN10		16.184835	1	35685591.360212
165300410A	Connection	CN9		16.184835	1	35685591.360212
1653004200	Connection	FP1		16.184835	1	35685591.360212
1653005201	Connection	CN14		16.184835	1	35685591.360212
1653300107	Connection	CN10(1-3), CN10(2- 4),JP1(1-2)		16.184835	3	14515880.849373
1653916121	Connection	CN7		16.184835	1	35685591.360212
1654226308	Connection	SLOT2		16.184835	1	35685591.360212
1654902037	Connection	CN12,CN13		16.184835	2	20390152.380746

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165490700G	Connection	SATA1,SATA 2		16.184835	2	20390152.380746
1655004011	Connection	CN3,CN4		16.184835	2	20390152.380746
1655004018	Connection	CN1,CN5		16.184835	2	20390152.380746
1655424022	Connection	CN2		16.184835	1	35685591.360212
1655912021	Connection	LPC1		16.184835	1	35685591.360212
1750113016	Miscellaneous	BT1		306.000000	1	1681683.006787
1750220323	Miscellaneous	BT1		306.000000	1	1681683.006787
1751300005	Relay	RELAY1,REL AY10, RELAY11,REL AY12, RELAY13,REL AY14, RELAY15,REL AY16, RELAY2,REL AY3, RELAY4,REL AY5, RELAY6,REL AY7, RELAY8,REL AY9		9.488968	16	4949450.282821
1752002500	Miscellaneous	FS1		2.400000	1	254626042.602335