

# DSS-TN40

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 7335.094355 ppm MTBF: 136,331 Hours
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Issue date	Approval	Test Engineer
2013/11/26	Tom Lin	Louie Lee

# Reliability Prediction (MTBF)

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**I . Model Name:** DSS-TN40

**II . Prediction Date:** November. 26, 2013

**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:**

DSS-TN40 (9697A70M08-D):

- Failure Rate: 7335.094355 ppm

- MTBF: 136,331 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** DSS-TN40.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 7335.094355  
**MTBF (hrs):** 136,331  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
DSS-TN40	9697A70M08-D		1	7335.094355	136,331

**File Name:** DSS-TN40.rfp  
**Assembly:** 9697A70M08-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7335.094355  
**MTBF (hrs):** 136,331  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R174,R262,R344,R496,R497,R554,R651		2.547039	7	48991237.965885
1050501004	Resistor	R502,R505,R507		2.547039	3	107020754.986850
1050501054	Resistor	R188		2.547039	1	282340674.079668
1050501224	Resistor	R11,R15,R467		2.547039	3	107020754.986850
1050502204	Resistor	R515		2.547039	1	282340674.079668
1050503924	Resistor	R211		2.547039	1	282340674.079668
1050505134	Resistor	R527		2.547039	1	282340674.079668
1050506224	Resistor	R1,R69		2.547039	2	154078778.388085
1050510034	Resistor	R164,R299,R370		2.547039	3	107020754.986850
1050511034	Resistor	R369		2.547039	1	282340674.079668
1050511524	Resistor	R367		2.547039	1	282340674.079668
1050511824	Resistor	R196		2.547039	1	282340674.079668
1050512734	Resistor	R263		2.547039	1	282340674.079668
1050514324	Resistor	R169		2.547039	1	282340674.079668
1050515034	Resistor	R307		2.547039	1	282340674.079668
1050516034	Resistor	R172		2.547039	1	282340674.079668
1050516234	Resistor	R165		2.547039	1	282340674.079668
1050519114	Resistor	R511		2.547039	1	282340674.079668
1050519604	Resistor	R95,R96		2.547039	2	154078778.388085
1050520034	Resistor	R168,R365		2.547039	2	154078778.388085
1050521024	Resistor	R510		2.547039	1	282340674.079668
1050521524	Resistor	R463		2.547039	1	282340674.079668
1050524004	Resistor	R181		2.547039	1	282340674.079668
1050531624	Resistor	R545		2.547039	1	282340674.079668
1050532414	Resistor	R516		2.547039	1	282340674.079668
1050533214	Resistor	R543		2.547039	1	282340674.079668
1050539004	Resistor	R18		2.547039	1	282340674.079668
1050539264	Resistor	R103,R104		2.547039	2	154078778.388085
1050540224	Resistor	R517,R520,R541		2.547039	3	107020754.986850

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1050551004	Resistor	R357,R358,R359, R360,R361,R362, R363,R364,R484, R485,R591,R596, R601,R605,R618, R623,R625,R627, R654,R655,R656, R657,R658,R659, R660,R661,R663, R664,R665,R666, R667,R668,R669, R670		2.547039	34	10846303.620910
1050559004	Resistor	R628		2.547039	1	282340674.079668
1050568004	Resistor	R637		2.547039	1	282340674.079668
1050582004	Resistor	R542		2.547039	1	282340674.079668
1050588704	Resistor	R513,R548		2.547039	2	154078778.388085
1050702734	Resistor	R25		2.547039	1	282340674.079668
1059700001	Resistor	R183,R256,R257, R301,R316,R555, R562,R679,R680, R681,R682		2.547039	11	32049696.385471
105A500139	Resistor	R171,R173,R176, R195,R197,R198, R212,R224,R368, R532,R538		2.547039	11	32049696.385471
105A500233	Resistor	R206,R624		2.547039	2	154078778.388085
105A501039	Resistor	R179,R207,R208, R209,R461,R462, R465,R514		2.547039	8	43225424.698300
105A501333	Resistor	R273		2.547039	1	282340674.079668
105A502039	Resistor	R163,R170,R284, R292,R366		2.547039	5	67008142.102588
105A503039	Resistor	R295		2.547039	1	282340674.079668

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105A503309	Resistor	R232		2.547039	1	282340674.079668
105A505109	Resistor	R503,R504,R506,R508,R540		2.547039	5	67008142.102588
105A515009	Resistor	R139		2.547039	1	282340674.079668
105A524919	Resistor	R404,R405		2.547039	2	154078778.388085
105A534823	Resistor	R93		2.547039	1	282340674.079668
105A553629	Resistor	R180		2.547039	1	282340674.079668
105A571503	Resistor	R225		2.547039	1	282340674.079668
105A575009	Resistor	R638		2.547039	1	282340674.079668
105A700003	Resistor	FB1,FB2,FB5,9,R162,R175,R182,R291,R400,R512,R518,R519,R567,R571,R573,R587,R609,R613,R662		2.547039	18	20032117.836120
105A700009	Resistor	R101,R106,R109,R132,R148,R166,R167,R177,R186,R210,R213,R215,R216,R217,R219,R221,R223,R228,R231,R268,R281,R300,R340,R341,R372,R375,R376,R378,R381,R382,R40,R408,R409,R41,R410,R412,R413,R414,R415,R42,R435,R		2.547039	107	3540274.720688

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105A700139	Resistor	R105,R107,R110, R112,R113,R125, R126,R30,R327,R332, R34,R343,R348,R374, R38,R380,R388,R389, R428,R447,R448, R451,R453,R457, R458,R469,R479, R480,R481,R488, R494,R495,R498, R499,R500,R599,R81, R85,R86,R97,R98		2.547039	41	9043562.562696
105A700239	Resistor	R337,R338,R345, R346,R350,R351, R354,R355		2.547039	8	43225424.698300
105A701009	Resistor	R218,R474		2.547039	2	154078778.388085



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105A701039	Resistor	R10,R100,R130,R150,R178,R184,R20,R202,R204,R220,R251,R254,R255,R260,R286,R29,R297,R31,R313,R314,R318,R320,R321,R326,R330,R336,R342,R385,R39,R392,R395,R396,R397,R441,R442,R443,R444,R460,R464,R466,R470,R471,R476,		2.547039	73	5151015.450923
105A701539	Resistor	R127,R151,R187,R2,R32,R33,R373,R379,R386,R61		2.547039	10	35079934.879747
105A702039	Resistor	R684,R685,R89		2.547039	3	107020754.986850
105A702209	Resistor	R199,R200,R201,R402,R406		2.547039	5	67008142.102588
105A702229	Resistor	R230,R233,R27,R274,R310,R311,R317,R323,R324,R328,R329,R334,R335,R420,R423,R438,R439,R440,R445,R564,R612,R619,R7, R74		2.547039	24	15190138.820515
105A702239	Resistor	R417,R418		2.547039	2	154078778.388085
105A703039	Resistor	R477		2.547039	1	282340674.079668

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105A703309	Resistor	R269,R279,R282, R287,R289,R293, R319,R322,R325, R331		2.547039	10	35079934.879747
105A703329	Resistor	R3,R62		2.547039	2	154078778.388085
105A704729	Resistor	R118,R12,R124, R226, R239,R250,R261, R264,R285,R298, R35, R36,R393,R416, R459, R55,R597,R70		2.547039	18	20032117.836120
105A705129	Resistor	R19,R436,R58, R686		2.547039	5	67008142.102588
105A705139	Resistor	R472,R473		2.547039	2	154078778.388085
105A706829	Resistor	R475		2.547039	1	282340674.079668
105A707509	Resistor	R421,R422,R425, R426		2.547039	4	82309758.689546
105A708229	Resistor	R37,R433,R697		2.547039	3	107020754.986850
105A710009	Resistor	R114,R115,R116, R117,R119,R120, R121,R122,R123, R128,R28,R437, R592, R79		2.547039	14	25477245.255648
105A710039	Resistor	R333,R339,R347, R349		2.547039	4	82309758.689546
105A715009	Resistor	R13,R14,R4,R407, R411,R429,R9		2.547039	7	48991237.965885
105A720053	Resistor	R214		2.547039	1	282340674.079668
105A730009	Resistor	R482,R483,R487		2.547039	3	107020754.986850
105A733003	Resistor	R431,R432		2.547039	2	154078778.388085
105A747009	Resistor	R16,R17		2.547039	2	154078778.388085
105A747039	Resistor	R26		2.547039	1	282340674.079668
106B701032	Resistor	RT1,RT2,RT3,RT4, RT5,RT6,RT7		7.724580	7	13620277.701355
1119647191	Capacitor	C6		4.744484	1	159663026.715137

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1121415090	Capacitor	C350,C531		1.128806	2	375289731.076049
1121501690	Capacitor	C134,C142		1.128806	2	375289731.076049
1121501691	Capacitor	C107,C108,C11,C110,C113,C114,C115,C124,C13,C15,C159,C165,C167,C170,C171,C173,C177,C180,C191,C194,C207,C210,C212,C215,C218,C22,C221,C226,C227,C228,C229,C23,C232,C234,C24,C25,C251,C256,C265,C266,C267,C27,C270,C273,C274,		1.128806	210	4147017.706446
1121701790	Capacitor	C146		1.128806	1	704977644.692287
1122522890	Capacitor	C187,C188,C199,C84		1.128806	4	196873384.410843
1122722780	Capacitor	C128,C511,C512		1.128806	3	257514172.353070
1124368690	Capacitor	C722,C723,C724,C725,C726,C727,C728,C729		1.128806	8	101746760.035398
1124412090	Capacitor	C53,C62		1.128806	2	375289731.076049

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1124418190	Capacitor	C339,C341,C343, C344,C345,C346, C347,C348,C357, C358,C359,C360, C361,C363,C369, C392,C424,C427, C433,C450,C454, C463,C464,C473, C474,C48,C483,C49, C50,C51,C515,C516, C517		1.128806	33	25726061.200507
1124427090	Capacitor	C303,C306,C320, C322		1.128806	4	196873384.410843
1124433190	Capacitor	C342		1.128806	1	704977644.692287
1124522290	Capacitor	C546,C665		1.128806	2	375289731.076049
1124533190	Capacitor	C197,C219		1.128806	2	375289731.076049
1124533282	Capacitor	C2,C26		1.128806	2	375289731.076049
1124547190	Capacitor	C513,C536		1.128806	2	375289731.076049
1129522650	Capacitor	C139		1.128806	1	704977644.692287
1129610051	Capacitor	C542,C545,C548, C550,C552		1.128806	5	159367490.199266
1129701791	Capacitor	C168,C178		1.128806	2	375289731.076049
1129710390	Capacitor	C503,C505,C506, C507,C514,C520, C535,C539,C540		1.128806	9	90863428.080946
1129710391	Capacitor	C5		1.128806	1	704977644.692287

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1129715090	Capacitor	C714,C715,C716, C717,C718,C719, C720,C721,C730, C731,C732,C733, C734,C735,C736, C737,C738,C739, C740,C741,C742, C743,C744,C745		1.128806	24	35120617.936543
1129722091	Capacitor	C144,C147,C151, C152,C508,C533, C703		1.128806	7	115633865.771428
1169656131	Capacitor	C205,C233		4.744484	2	86049450.747498
1169682192	Capacitor	TC1		4.744484	1	159663026.715137
1181647112	Capacitor	C301		4.744484	1	159663026.715137
1189610151	Capacitor	C314		4.744484	1	159663026.715137
1189615154	Capacitor	C364,C366		4.744484	2	86049450.747498
1189622154	Capacitor	TC2		4.744484	1	159663026.715137
1189633151	Capacitor	C412,C413,C416, C417,C422,C423, C521,C523,C524, C538		4.744484	10	19193879.126421
1189633184	Capacitor	C112,C494		4.744484	2	86049450.747498
1189933180	Capacitor	TC3		4.744484	1	159663026.715137
11A2422190	Capacitor	C367,C368,C370, C371		1.128806	4	196873384.410843
11A4410194	Capacitor	C333,C334,C335, C336		1.128806	4	196873384.410843
11B2701690	Capacitor	C181,C223		1.128806	2	375289731.076049

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11C1510390	Capacitor	C182,C235,C236, C237,C238,C239, C240,C241,C242, C243,C244,C245, C246,C247,C248, C249,C250,C271, C282,C324,C326, C408,C428,C429, C430,C431,C432, C504,C52		1.128806	29	29193260.380640
11C4401880	Capacitor	C400,C405,C406, C407,C409		1.128806	5	159367490.199266
11C4515190	Capacitor	C208,C213		1.128806	2	375289731.076049
11C4522290	Capacitor	C136,C140,C175, C272,C399,C475, C478,C479,C482		1.128806	9	90863428.080946
11C9510490	Capacitor	C116,C143,C154, C291,C316,C401, C543,C544,C547, C549,C750,C751, C752,C753		1.128806	14	59316298.011235
11C9522060	Capacitor	C155,C156,C157, C386,C393,C394		1.128806	6	133979725.056342

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11E1510050	Capacitor	C132,C137,C160, C201,C259,C269, C300,C420,C421, C487,C488,C491, C492,C551,C553, C676,C677		1.128806	17	49133303.073811
11E1522680	Capacitor	C355,C356,C387, C395,C9		1.128806	5	159367490.199266
11E1647650	Capacitor	C264,C281,C331, C332,C340,C362		1.128806	6	133979725.056342
11E2501690	Capacitor	C129,C183,C203, C211,C252,C253, C476,C481,C678		1.128806	9	90863428.080946
11E9501090	Capacitor	C149,C522		1.128806	2	375289731.076049
11E9501091	Capacitor	C111,C135,C14, C145,C153,C158,C17, C18,C19,C20,C21, C315,C327,C337,C381, C382,C383,C384, C389,C398,C510, C527,C572,C573, C576,C577,C583, C591,C593,C597, C603,C616,C629, C630,C639,C640, C641,C642,C645, C652,C688,C694,		1.128806	45	18979439.555593

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11E9522490	Capacitor	C141,C206,C402, C434,C441,C442, C451,C453,C455, C456,C46,C465,C466, C47,C477,C484,C485, C486,C518,C519,C67, C68,C70,C73,C74		1.128806	25	33748887.792763
11E9522680	Capacitor	C125,C378,C380, C448,C525,C559, C561,C562,C563, C564,C585,C587, C600,C613,C617, C633,C662,C664,C69		1.128806	19	44097696.883526
11E9547060	Capacitor	C329,C330		1.128806	2	375289731.076049
11E9547682	Capacitor	C100,C103,C411,C44, C45,C631,C76,C80, C83,C87,C94,C96		1.128806	12	68856937.301178



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11E9610080	Capacitor	C10,C104,C12,C138,C16,C179,C184,C258,C268,C307,C310,C312,C33,C374,C375,C385,C41,C42,C437,C440,C449,C452,C462,C471,C480,C489,C556,C568,C570,C571,C589,C599,C63,C632,C64,C682,C692,C704,C706,C707,C86,C90,C93,C95,C99		1.128806	45	18979439.555593
11E9622050	Capacitor	C32		1.128806	1	704977644.692287
11E9622080	Capacitor	C117,C118,C119,C120,C216,C220,C254,C255,C443,C444,C445,C446,C447,C457,C458,C459,C460,C461,C467,C468,C469,C470,C472,C496,C497,C498,C499,C500,C501,C592,C646,C647,C659,C82,C91,C92		1.128806	36	23624151.295955
11E9647060	Capacitor	C222		1.128806	1	704977644.692287
11E9647680	Capacitor	C133		1.128806	1	704977644.692287
121110106S	Inductor	L2		4.944252	1	154760964.143460
121110226V	Inductor	L1		4.944252	1	154760964.143460

**File Name:** DSS-TN40.rfp  
**Assembly:** 9697A70M08-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7335.094355  
**MTBF (hrs):** 136,331  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1211103373	Inductor	L11,L12		4.944252	2	83201062.149749
121110476V	Inductor	L6,L7		4.944252	2	83201062.149749
1211105675	Inductor	L10	17.7	6.788254	1	112720756.186114
1211133074	Inductor	L5		4.944252	1	154760964.143460
1211133076	Inductor	L4	8.1	5.741698	1	133266706.841084
1211147070	Inductor	L3	8.4	5.772722	1	132550499.659195
1212306036	Inductor	FB33,FB34,F B35, FB36,FB37,F B40, FB43,FB44,F B45, FB53,FB54		4.944252	11	16872203.304846
121230603Z	Inductor	FB27,FB28,F B29, FB30		4.944252	4	43912872.424775
1212308054	Inductor	FB5,FB6		4.944252	2	83201062.149749
121230805A	Inductor	FB48,FB49		4.944252	2	83201062.149749
121231206B	Inductor	FB31,FB32		4.944252	2	83201062.149749
12123C0003	Inductor	FB21,FB22,F B23, FB24,FB38		4.944252	5	35631881.582999
12123C0005	Inductor	FB39,FB41,F B46		4.944252	3	57363284.375370
12123C000A	Inductor	FB20,FB25,F B26, FB56,FB57,F B58		4.944252	6	30055900.223009
1214309000	Inductor	CH13,CH19,C H7,CH8		4.944252	4	43912872.424775
123132505D	Miscellaneous	Y2,Y5,Y6		19.200000	3	5742504.738137
1231332726	Miscellaneous	Y3		19.200000	1	23844262.770939
1301005440	Semiconductor	D1,D10		7.793411	2	50578095.223398
1301053040	Semiconductor	D5,D6		7.793411	2	50578095.223398
1301400642	Semiconductor	D9		7.793411	1	92807310.010983
1304400250	Optical Device	LED1		79.003355	1	6497172.749112
1305040241	Semiconductor	U1,U10,U11, U12,U2, U3,U4,U9		7.793411	8	14161142.003130
1305100541	Semiconductor	U16,U17,U18 ,U19,U5, U6,U7,U8,U8 1,U82		7.793411	10	11489279.961809
1310390413	Semiconductor	Q3,Q52,Q54, Q56,Q6, Q61,Q64,Q7 1,Q8		22.463360	9	4366472.106532
1311390612	Semiconductor	Q7,Q9		22.463360	2	17315095.066101
1314010410	Semiconductor	U46	17.3	35.404316	1	20076623.690252
1314010410	Semiconductor	U77		22.463360	1	31642600.748419

**File Name:** DSS-TN40.rfp  
**Assembly:** 9697A70M08-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7335.094355  
**MTBF (hrs):** 136,331  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315230410	Semiconductor	Q15,Q48,Q49		22.463360	3	12043329.789539
1315360410	Semiconductor	Q28,Q67,Q68		22.463360	3	12043329.789539
1315413410	Semiconductor	Q38		22.463360	1	31642600.748419
1315443512	Semiconductor	Q32		22.463360	1	31642600.748419
1315700216	Semiconductor	Q1,Q10,Q11,Q12,Q13,Q14,Q16,Q17,Q18,Q19,Q2,Q20,Q21,Q22,Q23,Q24,Q25,Q26,Q27,Q30,Q31,Q33,Q34,Q35,Q37,Q39,Q4,Q40,Q41,Q42,Q43,Q44,Q45,Q46,Q47,Q5,Q50,Q53,Q55,Q57,Q58,Q59,Q60,Q62,Q63,Q65,Q66		22.463360	47	895901.347243
1315762010	Semiconductor	Q51,Q70		22.463360	2	17315095.066101
1315831310	Semiconductor	Q36,Q69		22.463360	2	17315095.066101
1315831310	Semiconductor	Q72	10.6	29.862259	1	23802590.484982
143ALC8920	Integrated Circuit	U61	14.7	118.127329	1	4353034.436547
1440002130	Integrated Circuit	U70,U76		43.803003	2	6834791.244197
14400260H0	Integrated Circuit	U22	21.2	52.138317	1	9862465.106332
1462DS40A0	Integrated Circuit	U48		11.063278	1	58231413.220643
14S3052400	Integrated Circuit	U54,U55,U56,U57,U62,U63,U64,U65,U66,U67,U68,U69		43.803003	12	1499359.883490
14S3112300	Integrated Circuit	U51		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U41		43.803003	1	11739202.588727
14S3121800	Integrated Circuit	U40,U58		43.803003	2	6834791.244197
14S3832100	Integrated Circuit	U78		43.803003	1	11739202.588727
14S4048501	Integrated Circuit	U71,U72		43.803003	2	6834791.244197
14S4519500	Integrated Circuit	U74		43.803003	1	11739202.588727
14S4811102	Integrated Circuit	U59,U60		43.803003	2	6834791.244197
14S4872800	Integrated Circuit	U75		43.803003	1	11739202.588727
14S4A70M00	Integrated Circuit	U47	15	120.428261	1	4269864.283173
14S5812502	Integrated Circuit	U15		26.018600	1	25551442.237972

**File Name:** DSS-TN40.rfp  
**Assembly:** 9697A70M08-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 7335.094355  
**MTBF (hrs):** 136,331  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5912300	Integrated Circuit	U14		26.018600	1	25551442.237972
14S5A01400	Integrated Circuit	U13		26.018600	1	25551442.237972
14S5A12506	Integrated Circuit	U73		26.018600	1	25551442.237972
14S6203204	Integrated Circuit			11.063278	1	58231413.220643
14S6334607	Integrated Circuit	U79,U80		11.063278	2	32567094.099626
1540710280	Resistor	RP6,RP7,RP8		9.971436	3	21639329.074793
1540710382	Resistor	RP3,RP4,RP5		9.971436	3	21639329.074793
1540722281	Resistor	RP2		9.971436	1	51606907.671214
1540733085	Resistor	RP1		9.971436	1	51606907.671214
1601615600	Connection	SW1		16.184835	1	35685591.360212
16515A2992	Connection	DIMM2		16.184835	1	35685591.360212
16515A2993	Connection	DIMM1		16.184835	1	35685591.360212
1652503209	Connection	CN37		16.184835	1	35685591.360212
165250520B	Connection	CN35		16.184835	1	35685591.360212
165250520C	Connection	CN36		16.184835	1	35685591.360212
165251420B	Connection	CN33,CN34		16.184835	2	20390152.380746
1653003101	Connection	CN22,CN8		16.184835	2	20390152.380746
1653003201	Connection	CN9		16.184835	1	35685591.360212
165300420L	Connection	CN25		16.184835	1	35685591.360212
165300520Y	Connection	CN4,CN5		16.184835	2	20390152.380746
165320520Y	Connection	CN11		16.184835	1	35685591.360212
1653300102	Connection	CN22(1-2),CN8(1-2),CN9(3-4)		16.184835	3	14515880.849373
1654226303	Connection	CN38,CN41		16.184835	2	20390152.380746
165440910B	Connection	CN1		16.184835	1	35685591.360212
1654606100	Connection	CN3		16.184835	1	35685591.360212
1654808309	Connection	CN6		16.184835	1	35685591.360212
1654818301	Connection	CN7		16.184835	1	35685591.360212
1654903900	Connection	CN39		16.184835	1	35685591.360212
1654919305	Connection	CN28,CN29,CN30,N30,CN31		16.184835	4	11344857.509064
1654922104	Connection	CN13		16.184835	1	35685591.360212
1655004014	Connection	CN2		16.184835	1	35685591.360212
1655904030	Connection	CN15		16.184835	1	35685591.360212
1750113010	Miscellaneous	BT1		306.000000	1	1681683.006787
1750220326	Connection	BT1		16.184835	1	35685591.360212
1752000501	Miscellaneous	FS8		2.400000	1	254626042.602335
1752310000	Miscellaneous	FS1,FS10,FS11,FS12,FS2,FS3,FS6,FS7,FS9		2.400000	9	38339967.366034
1752320000	Miscellaneous	FS4,FS5		2.400000	2	143944727.196625