

# PICO-BSW1

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 6626.542800 MTBF: 150,908 Hours
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Issue date

QE Manager

Test Engineer

2016/10/06

KJ Wang

Jack Huang

# Reliability Prediction (MTBF)

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**I . Model Name:** PICO-BSW1

**II . Prediction Date:** Oct. 06, 2016

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

**IV . Predicted by:** Jack Huang

**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:**

PICO-BSW1(9697BSW104-D):

- Failure Rate:6626.542800

- MTBF: 150,908 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** PICO-BSW1.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 6626.542800  
**MTBF (hrs):** 150,908  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
PICO-BSW1	9697BSW104-D		1	6626.542800	150,908

**File Name:** PICO-BSW1.rfp  
**Assembly:** 9697BSW104-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 6626.542800  
**MTBF (hrs):** 150,908  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500104	Resistor	R441		2.547039	1	282340674.079668
1050501004	Resistor	R420,R456		2.547039	2	154078778.388085
1050501054	Resistor	R497		2.547039	1	282340674.079668
1050502004	Resistor	R393,R429		2.547039	2	154078778.388085
1050502734	Resistor	R373		2.547039	1	282340674.079668
1050503324	Resistor	R411,R443		2.547039	2	154078778.388085
1050504724	Resistor	R162,R163,R164, R165		2.547039	4	82309758.689546
1050505124	Resistor	R296,R359		2.547039	2	154078778.388085
1050505164	Resistor	R379		2.547039	1	282340674.079668
1050505633	Resistor	R466,R483		2.547039	2	154078778.388085
1050506234	Resistor	R424,R460		2.547039	2	154078778.388085
1050507530	Resistor	R416,R451		2.547039	2	154078778.388085
1050508224	Resistor	R390		2.547039	1	282340674.079668
1050510034	Resistor	R298,R418,R500, R556		2.547039	4	82309758.689546
1050513724	Resistor	R417,R459		2.547039	2	154078778.388085
1050514044	Resistor	R423		2.547039	1	282340674.079668
1050517424	Resistor	R1321		2.547039	1	282340674.079668
1050518204	Resistor	R4,R5		2.547039	2	154078778.388085
1050520034	Resistor	R1325,R1343,R191, R45,R470,R55,R58		2.547039	7	48991237.965885
1050524034	Resistor	R454		2.547039	1	282340674.079668
1050524924	Resistor	R494		2.547039	1	282340674.079668
1050530124	Resistor	R378		2.547039	1	282340674.079668
1050531624	Resistor	R463		2.547039	1	282340674.079668
1050533034	Resistor	R491		2.547039	1	282340674.079668
1050540204	Resistor	R17,R22,R32,R34, R85		2.547039	5	67008142.102588
1050545304	Resistor	R401,R437		2.547039	2	154078778.388085
1050545364	Resistor	R89		2.547039	1	282340674.079668
1050549964	Resistor	R397,R43,R430		2.547039	3	107020754.986850
1050561934	Resistor	R484		2.547039	1	282340674.079668
1050718034	Resistor	R478		2.547039	1	282340674.079668
1050756004	Resistor	R289,R290,R292, R293,R294,R297		2.547039	6	56573956.677649
1059520001	Resistor	R549		2.547039	1	282340674.079668
1059700001	Resistor	R226		2.547039	1	282340674.079668
1059710001	Resistor	R550		2.547039	1	282340674.079668
105A500103	Resistor	R481		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A500139	Resistor	R314,R317,R395, R399,R410,R432, R435,R442		2.547039	8	43225424.698300
105A500173	Resistor	R151,R154		2.547039	2	154078778.388085
105A501003	Resistor	R170		2.547039	1	282340674.079668
105A501039	Resistor	R1324,R205, R358, R392,R405,R444,R98		2.547039	7	48991237.965885
105A501539	Resistor	R371		2.547039	1	282340674.079668
105A502039	Resistor	R113,R357,R360, R472,R535		2.547039	5	67008142.102588
105A502263	Resistor	R394,R408,R434, R440		2.547039	4	82309758.689546
105A503039	Resistor	R428,R464,R492, R534		2.547039	4	82309758.689546
105A503309	Resistor	R557		2.547039	1	282340674.079668
105A504703	Resistor	R404,R447		2.547039	2	154078778.388085
105A504763	Resistor	R498		2.547039	1	282340674.079668
105A505109	Resistor	R100,R93,R94,R95, R96		2.547039	5	67008142.102588
105A505629	Resistor	R453		2.547039	1	282340674.079668
105A506829	Resistor	R380		2.547039	1	282340674.079668
105A507509	Resistor	R361,R362,R363, R364,R367		2.547039	5	67008142.102588
105A507533	Resistor	R482		2.547039	1	282340674.079668
105A508233	Resistor	R493		2.547039	1	282340674.079668
105A510009	Resistor	R107,R23,R407,R419, R446,R455,R469, R501,R54		2.547039	9	38754445.632391
105A510223	Resistor	R471,R485		2.547039	2	154078778.388085
105A511303	Resistor	R86		2.547039	1	282340674.079668
105A513323	Resistor	R376		2.547039	1	282340674.079668
105A515009	Resistor	R18		2.547039	1	282340674.079668
105A515034	Resistor	R414,R452		2.547039	2	154078778.388085
105A519123	Resistor	R504		2.547039	1	282340674.079668
105A519629	Resistor	R1323		2.547039	1	282340674.079668
105A524919	Resistor	R217,R46		2.547039	2	154078778.388085
105A530109	Resistor	R402,R438		2.547039	2	154078778.388085
105A532429	Resistor	R479		2.547039	1	282340674.079668
105A540269	Resistor	R26,R27		2.547039	2	154078778.388085
105A547003	Resistor	R551		2.547039	1	282340674.079668

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105A548723	Resistor	R426		2.547039	1	282340674.079668
105A553629	Resistor	R427		2.547039	1	282340674.079668
105A562034	Resistor	R386		2.547039	1	282340674.079668
105A563439	Resistor	R499		2.547039	1	282340674.079668
105A700003	Resistor	R215,R355,R365, R381,R382,R383, R384,R387,R467, R473,R477,R489, R505		2.547039	13	27342571.921361
105A700009	Resistor	R103,R104,R105, R106,R108,R109,R11, R110,R111,R112, R114,R115,R116, R117,R118,R1330, R1333,R1341,R136, R137,R178,R182, R196,R202,R203, R206,R222,R223, R230,R232,R235, R236,R240,R241, R242,R243,R277, R291,R318,R327, R369,R388,R391, R396,R413,R415, R422,R42		2.547039	70	5366964.985587

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105A700139	Resistor	R127,R204,R209, R211,R212,R213, R214,R47,R48,R480, R49,R514,R515,R516, R520,R522,R524, R555,R559,R570		2.547039	20	18104712.511396
105A701039	Resistor	R120,R123,R129, R130,R131,R132, R1335,R1336,R1337, R134,R1340,R135, R159,R160,R161, R171,R174,R186, R192,R195,R208, R228,R238,R239, R245,R246,R248, R249,R251,R252, R273,R274,R275, R276,R279,R280, R281,R283,R295, R299,R300,R301, R313,R335,R338, R339,R343,R		2.547039	75	5016500.228829
105A701059	Resistor	R166,R278		2.547039	2	154078778.388085
105A701069	Resistor	R92		2.547039	1	282340674.079668
105A701539	Resistor	R210		2.547039	1	282340674.079668
105A702039	Resistor	R128,R133		2.547039	2	154078778.388085



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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A702229	Resistor	R13,R1326,R1327, R1344,R1345,R14, R15,R16,R172,R173, R193,R194,R199, R201,R56,R57,R59, R60		2.547039	18	20032117.836120
105A702263	Resistor	R412,R448		2.547039	2	154078778.388085
105A702269	Resistor	R409		2.547039	1	282340674.079668
105A703309	Resistor	R102,R302,R569,R99		2.547039	4	82309758.689546
105A704729	Resistor	R119,R121,R122, R124,R1334,R200, R225,R237,R244, R284,R286,R287, R288,R304,R305,R50, R553,R63,R74,R75		2.547039	20	18104712.511396
105A705139	Resistor	R562,R563,R564, R565		2.547039	4	82309758.689546
105A710009	Resistor	R561		2.547039	1	282340674.079668

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A710039	Resistor	R1342,R138, R167, R168,R177,R 189,R19, R198,R20,R2 1,R247, R319,R320,R 321, R322,R323,R 324, R325,R326,R 368, R374,R385,R 465, R476,R487,R 490, R502,R503,R 506, R510,R511,R 513, R539,R541,R 544, R545,R664,R 78,R9		2.547039	39	9493970.778443
105A720009	Resistor	R125,R398,R 431,R97		2.547039	4	82309758.689546
105A733009	Resistor	R218,R221,R 547, R548,R566,R 567, R568		2.547039	7	48991237.965885
105A747009	Resistor	R519,R521,R 523, R525		2.547039	4	82309758.689546
105A747039	Resistor	R554		2.547039	1	282340674.079668
106B510034	Resistor	RT1,RT2,RT3 ,RT4		2.547039	4	82309758.689546

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C10,C11,C12 2,C123, C124,C125,C 126, C129,C130,C 132, C133,C14,C1 42,C143, C144,C145,C 146,C15, C158,C16,C1 60,C162, C163,C164,C 165, C166,C167,C 17,C171, C172,C173,C 176, C177,C178,C 179, C182,C184,C 185, C186,C187,C 19,C191, C192,C193,C 194, C195,C196,C 197, C198,C19		1.128806	170	5113127.073511
1124410191	Capacitor	C188,C189,C 190, C346,C347		1.128806	5	159367490.199266
1124418090	Capacitor	C18,C21		1.128806	2	375289731.076049
1124427090	Capacitor	C236,C240		1.128806	2	375289731.076049
1124433090	Capacitor	C379		1.128806	1	704977644.692287
1124447180	Capacitor	C601		1.128806	1	704977644.692287
1124533190	Capacitor	C415		1.128806	1	704977644.692287
1124533191	Capacitor	C389,C409		1.128806	2	375289731.076049
1129610051	Capacitor	C371,C376,C 377, C378		1.128806	4	196873384.410843
1129622690	Capacitor	C489		1.128806	1	704977644.692287
1129701791	Capacitor	C161,C252,C 253, C254,C255,C 256, C257,C258,C 259, C306,C381,C 404, C469		1.128806	13	63728475.410842
1129710090	Capacitor	C12,C13		1.128806	2	375289731.076049
1129710091	Capacitor	C344		1.128806	1	704977644.692287

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1129710391	Capacitor	C156,C390,C397, C412,C418,C437, C467		1.128806	7	115633865.771428
1129722091	Capacitor	C448		1.128806	1	704977644.692287
1129747090	Capacitor	C387,C411		1.128806	2	375289731.076049
1181610194	Capacitor	C590		4.744484	1	159663026.715137
1189610153	Capacitor	TC12		4.744484	1	159663026.715137
1189615154	Capacitor	TC4,TC6,TC7		4.744484	3	59399119.141203
1189633151	Capacitor	TC11,TC3,TC8		4.744484	3	59399119.141203
118C6331B0	Capacitor	TC10,TC2,TC5,TC9		4.744484	4	45505862.704531
11A4410194	Capacitor	C395,C459		1.128806	2	375289731.076049
11C1501030	Capacitor	C369,C370,C439		1.128806	3	257514172.353070
11C2510480	Capacitor	C432		1.128806	1	704977644.692287
11C2522480	Capacitor	C388,C410		1.128806	2	375289731.076049
11C4401880	Capacitor	C413		1.128806	1	704977644.692287
11C4501380	Capacitor	C392		1.128806	1	704977644.692287
11C4501790	Capacitor	C452		1.128806	1	704977644.692287
11C4510240	Capacitor	C393,C414		1.128806	2	375289731.076049
11C4522191	Capacitor	C394		1.128806	1	704977644.692287
11C4522290	Capacitor	C314,C315,C442		1.128806	3	257514172.353070
11C4533240	Capacitor	C396,C417		1.128806	2	375289731.076049
11C4533380	Capacitor	C375		1.128806	1	704977644.692287
11C4533880	Capacitor	C466		1.128806	1	704977644.692287
11C4547190	Capacitor	C213,C231,C232, C398,C419,C484, C485,C487,C488, C490,C491,C492, C496,C497,C498		1.128806	15	55479656.844874
11C4547290	Capacitor	C438		1.128806	1	704977644.692287
11C4556690	Capacitor	C453		1.128806	1	704977644.692287
11C9510050	Capacitor	C423,C424		1.128806	2	375289731.076049
11E1510050	Capacitor	C183,C226,C260, C271,C328,C334, C335,C336,C337		1.128806	9	90863428.080946
11E1522680	Capacitor	C128,C131,C382, C405		1.128806	4	196873384.410843

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11E2501080	Capacitor	C385,C407		1.128806	2	375289731.076049
11E2501690	Capacitor	C169,C181,C372,C433,C483		1.128806	5	159367490.199266
11E2510010	Capacitor	C168,C325,C386,C408		1.128806	4	196873384.410843
11E2510060	Capacitor	C436,C595,C596		1.128806	3	257514172.353070
11E2647650	Capacitor	C443		1.128806	1	704977644.692287
11E4433090	Capacitor	C351,C361,C570		1.128806	3	257514172.353070
11EB510640	Capacitor	C100,C101,C102,C103,C104,C105,C106,C107,C108,C109,C110,C111,C112,C113,C114,C115,C117,C118,C119,C120,C121,C127,C152,C153,C180,C216,C237,C238,C25,C26,C27,C270,C318,C324,C333,C338,C339,C340,C35,C358,C36,C368,C37,C38,C380,C383,C401,C403,C430,C4		1.128806	77	11186508.104394
11E9547630	Capacitor	C215,C233		1.128806	2	375289731.076049
11E9547790	Capacitor	C174		1.128806	1	704977644.692287
11E9610080	Capacitor	C374		1.128806	1	704977644.692287
11E9622052	Capacitor	C157,C455,C456,C473,C474,C475,C476		1.128806	7	115633865.771428
11E9622080	Capacitor	C391,C445,C460,C461,C462,C463,C602		1.128806	7	115633865.771428

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11EA610040	Capacitor	C134,C135,C136, C137,C138,C150, C151,C159,C170, C175,C200,C32,C33, C34,C341,C43,C352, C353,C357,C362, C363,C367,C42,C428, C43,C44,C51,C52, C53,C56,C568,C569, C585,C59,C593,C594, C77,C78,C84,C85, C91,C92,C93,C94, C95,C96		1.128806	46	18574133.926778
11EB622010	Capacitor	C447		1.128806	1	704977644.692287
121110156P	Inductor	L6		4.944252	1	154760964.143460
121110156U	Inductor	L5,L8		4.944252	2	83201062.149749
121110476Q	Inductor	L1		4.944252	1	154760964.143460
1211104773	Inductor	L3,L4		4.944252	2	83201062.149749
1211115073	Inductor	L7		4.944252	1	154760964.143460
1211122070	Inductor	L2		4.944252	1	154760964.143460
1212306030	Inductor	FB1,FB2,FB3,FB7,FB8,FB9		4.944252	6	30055900.223009
1212308054	Inductor	FB4		4.944252	1	154760964.143460
12123D0001	Inductor	FB10,FB11		4.944252	2	83201062.149749
1214109000	Inductor	CH10,CH12		4.944252	2	83201062.149749
1214109004	Inductor	CH14,CH15,C16,CH4, CH5,CH7,CH8,CH9		4.944252	8	22874049.098230
12310192A0	Miscellaneous	Y1		19.200000	1	23844262.770939
123132505M	Miscellaneous	Y3		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
12330024A1	Miscellaneous	Y5		19.200000	1	23844262.770939
1301005444	Semiconductor	D1,D2		7.793411	2	50578095.223398
1301400642	Semiconductor	D6		7.793411	1	92807310.010983
1301793040	Semiconductor	D7,D8		7.793411	2	50578095.223398
1304000043	Optical Device	LED1		79.003355	1	6497172.749112
1304101440	Optical Device	LED2		79.003355	1	6497172.749112

**File Name:** PICO-BSW1.rfp  
**Assembly:** 9697BSW104-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 6626.542800  
**MTBF (hrs):** 150,908  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1304500240	Optical Device	LED3		79.003355	1	6497172.749112
1305080040	Semiconductor	D4,D5		7.793411	2	50578095.223398
1310390413	Semiconductor	Q18,Q35,Q37		22.463360	3	12043329.789539
1311390612	Semiconductor	Q20,Q21		22.463360	2	17315095.066101
1315035110	Semiconductor	Q10		22.463360	1	31642600.748419
1315190100	Semiconductor	U24		22.463360	1	31642600.748419
1315230511	Semiconductor	Q32,Q7		22.463360	2	17315095.066101
1315443512	Semiconductor	Q28	25	42.686868	1	16651470.616277
1315700216	Semiconductor	Q17,Q19,Q29,Q8		22.463360	4	9270607.712006
1315720010	Semiconductor	Q22,Q25		22.463360	2	17315095.066101
1315762010	Semiconductor	Q24		22.463360	1	31642600.748419
1315D4C500	Semiconductor	Q23,Q27		22.463360	2	17315095.066101
1315EM6K10	Semiconductor	Q1,Q11,Q12,Q13,Q14,Q15,Q2,Q26,Q3,Q38,Q4,Q40,Q5,Q6,Q80,Q81,Q82,Q83,Q84,Q85,Q9		22.463360	21	1952685.860459
1430080650	Integrated Circuit	U48		43.803003	1	11739202.588727
1430087620	Integrated Circuit	U49		43.803003	1	11739202.588727
1430455200	Integrated Circuit	U50,U51,U52,U53		43.803003	4	3879156.910661
1430532190	Integrated Circuit	U47		43.803003	1	11739202.588727
1430812410	Integrated Circuit	U44,U45		43.803003	2	6834791.244197
143ALC8920	Integrated Circuit	U38		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U35		43.803003	1	11739202.588727
1440N31600	Integrated Circuit	U1	14.3	39.707913	1	12949870.347267
1440033600	Integrated Circuit	U18	21.1	176.895896	1	2906864.098270
149TB01040	Integrated Circuit	U32,U4,U5		43.803003	3	4923240.069161
14S3009900	Integrated Circuit	U22,U23		43.803003	2	6834791.244197
14S3104500	Integrated Circuit	U17,U25,U27,U64		43.803003	4	3879156.910661
14S3121800	Integrated Circuit	U46		43.803003	1	11739202.588727
14S3524700	Integrated Circuit	U8		43.803003	1	11739202.588727
14S3820700	Integrated Circuit	U43		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U40,U42,U61		43.803003	3	4923240.069161
14S3E00100	Integrated Circuit	U30		43.803003	1	11739202.588727
14S4180100	Integrated Circuit	U31		43.803003	1	11739202.588727
14S4631500	Integrated Circuit	U59		43.803003	1	11739202.588727
14S4751100	Integrated Circuit	U37		43.803003	1	11739202.588727
14S4811103	Integrated Circuit	U19		43.803003	1	11739202.588727
14S4814380	Integrated Circuit	U36	20.7	172.568076	1	2979765.101184
14S5912300	Integrated Circuit	U60		26.018600	1	25551442.237972

**File Name:** PICO-BSW1.rfp  
**Assembly:** 9697BSW104-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 6626.542800  
**MTBF (hrs):** 150,908  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5A00802	Integrated Circuit	U54,U55		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U11,U57,U6		26.018600	3	9949526.289768
14S5A01402	Integrated Circuit	U21		26.018600	1	25551442.237972
14S5A30601	Integrated Circuit	U16,U2,U3,U62,U63		26.018600	5	6292206.574138
14S5A73200	Integrated Circuit	U58		26.018600	1	25551442.237972
14S6206403	Integrated Circuit	U33		11.063278	1	58231413.220643
14S911P600	Integrated Circuit	U10		26.018600	1	25551442.237972
1540710280	Resistor	RP1		9.971436	1	51606907.671214
16515A2991	Connection	DIMM1		16.184835	1	35685591.360212
165300320L	Connection	CN18,JP1,JP2		16.184835	3	14515880.849373
165300520Y	Connection	JP16		16.184835	1	35685591.360212
1653515210	Connection	CN6		16.184835	1	35685591.360212
1654008020	Connection	CN8		16.184835	1	35685591.360212
1654226303	Connection	CN10,CN13		16.184835	2	20390152.380746
1654401932	Connection	CN24		16.184835	1	35685591.360212
1654907009	Connection	CN11		16.184835	1	35685591.360212
1655305130	Connection	CN5		16.184835	1	35685591.360212
1655812130	Connection	CN20		16.184835	1	35685591.360212
1655820100	Connection	CN21		16.184835	1	35685591.360212
1655907131	Connection	CN19		16.184835	1	35685591.360212
1752000501	Connection	FS3		16.184835	1	35685591.360212
1752001603	Connection	FS2		16.184835	1	35685591.360212
1752002500	Connection	FS1		16.184835	1	35685591.360212
S1AD004390	Connection	H1,H2		16.184835	2	20390152.380746
1490034600	Connection	U7	23.9	49.588180	1	11647239.259145
S1A1004030	Connection	H1,H2		16.184835	2	20390152.380746
165251420B	Connection	CN9		16.184835	1	35685591.360212
1652602105	Connection	CN22		16.184835	1	35685591.360212
165300310G	Connection	JP3		16.184835	1	35685591.360212
165300320K	Connection	JP4		16.184835	1	35685591.360212
1653300107	Connection	JP2(2-4),JP2(3-5), JP4(3-4)		16.184835	3	14515880.849373
1653300108	Connection	JP1(1-3)		16.184835	1	35685591.360212
165330010E	Connection	JP1(2-4),JP3(1-2)		16.184835	2	20390152.380746
1654818301	Connection	CN1		16.184835	1	35685591.360212
1655302025	Connection	CN12		16.184835	1	35685591.360212
1655902034	Connection	CN3		16.184835	1	35685591.360212
175011301C	Miscellaneous	CN3		306.000000	1	1681683.006787