

COM-BYTC2

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8708,830721ppm MTBF: 114,826 Hours
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Issue date

Approval

Test Engineer

2016/06/16

KJ Wang

Danny Chen

Reliability Prediction (MTBF)

I . Model Name: COM-BYTC2

II . Prediction Date: Jun.16, 2016

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

IV . Predicted by: Danny

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:

COM-BYTC2 (9697BTC208-D):

- Failure Rate: 8708,830721ppm
- MTBF: 114,826 Hours

**AAEON Reliability Prediction
Summary**

File Name: COM-BYTC2.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 8708.830721
MTBF (hrs): 114,826
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
COM-BYTC2	9697BTC208-D		1	8708.830721	114,826

File Name: COM-BYTC2.rfp
Assembly: 9697BTC208-D
Ref Des:
Description:

Failure Rate: 8708.830721
MTBF (hrs): 114,826
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500334	Resistor	R481,R497,R498		0.849013	3	321062264.960549
1050501054	Resistor	R630		0.849013	1	847022022.239005
1050501064	Resistor	R1001,R241		0.849013	2	462236335.164256
1050501234	Resistor	R629,R638,R898		0.849013	3	321062264.960549
1050501634	Resistor	R490		0.849013	1	847022022.239005
1050502004	Resistor	R253,R254		0.849013	2	462236335.164256
1050502224	Resistor	R380,R384,R472, R525		0.849013	4	246929276.068637
1050502734	Resistor	R769		0.849013	1	847022022.239005
1050503334	Resistor	R700		0.849013	1	847022022.239005
1050503934	Resistor	R827,R844		0.849013	2	462236335.164256
1050504324	Resistor	R817		0.849013	1	847022022.239005
1050504724	Resistor	R160,R161,R364, R411,R414,R415, R416,R417,R431		0.849013	9	116263336.897173
1050504734	Resistor	R603		0.849013	1	847022022.239005
1050505124	Resistor	R807		0.849013	1	847022022.239005
1050505633	Resistor	R849		0.849013	1	847022022.239005
1050507524	Resistor	R806		0.849013	1	847022022.239005
1050507530	Resistor	R792		0.849013	1	847022022.239005
1050510034	Resistor	R545,R735,R738, R752,R753,R763, R776,R782,R787, R796		0.849013	10	105239804.639242
1050510524	Resistor	R808		0.849013	1	847022022.239005
1050511034	Resistor	R852		0.849013	1	847022022.239005
1050513034	Resistor	R777		0.849013	1	847022022.239005
1050515034	Resistor	R841,R845		0.849013	2	462236335.164256
1050516004	Resistor	R1053		0.849013	1	847022022.239005
1050516204	Resistor	R159		0.849013	1	847022022.239005
1050516934	Resistor	R832		0.849013	1	847022022.239005
1050516964	Resistor	R252		0.849013	1	847022022.239005
1050520034	Resistor	R261,R784		0.849013	2	462236335.164256
1050522124	Resistor	R857		0.849013	1	847022022.239005
1050524924	Resistor	R851		0.849013	1	847022022.239005
1050527424	Resistor	R759		0.849013	1	847022022.239005
1050529464	Resistor	R158		0.849013	1	847022022.239005
1050530124	Resistor	R761		0.849013	1	847022022.239005
1050531624	Resistor	R811,R812		0.849013	2	462236335.164256
1050536514	Resistor	R829		0.849013	1	847022022.239005
1050540214	Resistor	R232		0.849013	1	847022022.239005

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1050545364	Resistor	R243,R255		0.849013	2	462236335.164256
1050549934	Resistor	R781		0.849013	1	847022022.239005
1050561934	Resistor	R793		0.849013	1	847022022.239005
1050568124	Resistor	R632		0.849013	1	847022022.239005
1050573264	Resistor	R199,R265,R266, R268,R822,R823, R824		0.849013	7	146973713.897655
1052500171	Resistor	R295		0.849013	1	847022022.239005
105A500103	Resistor	R791,R850,R859		0.849013	3	321062264.960549
105A500139	Resistor	R239,R240,R330, R332,R334,R335, R499,R708,R779, R805,R835		0.849013	11	96149089.156414
105A501003	Resistor	R819		0.849013	1	847022022.239005
105A501039	Resistor	R333,R336,R388, R390,R393,R396, R401,R469,R471, R728,R730,R734, R775,R834		0.849013	14	76431735.766944
105A501053	Resistor	R643		0.849013	1	847022022.239005
105A502039	Resistor	R258,R267		0.849013	2	462236335.164256
105A503039	Resistor	R1054,R760,R771, R816		0.849013	4	246929276.068637
105A503309	Resistor	R1042,R3,R8,R9		0.849013	4	246929276.068637
105A503633	Resistor	R767		0.849013	1	847022022.239005
105A505109	Resistor	R242,R245,R247, R248,R250		0.849013	5	201024426.307764
105A510003	Resistor	R741,R742,R743, R744		0.849013	4	246929276.068637
105A510009	Resistor	R473,R491,R526		0.849013	3	321062264.960549
105A510223	Resistor	R795		0.849013	1	847022022.239005
105A511523	Resistor	R764		0.849013	1	847022022.239005
105A512413	Resistor	R230		0.849013	1	847022022.239005
105A515009	Resistor	R197,R201,R202, R203		0.849013	4	246929276.068637
105A515034	Resistor	R833		0.849013	1	847022022.239005
105A515423	Resistor	R758		0.849013	1	847022022.239005

File Name: COM-BYTC2.rfp
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Ref Des:
Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A518723	Resistor	R818,R848		0.849013	2	462236335.164256
105A522133	Resistor	R860		0.849013	1	847022022.239005
105A523263	Resistor	R157		0.849013	1	847022022.239005
105A529429	Resistor	R853,R861		0.849013	2	462236335.164256
105A533269	Resistor	R839		0.849013	1	847022022.239005
105A535703	Resistor	R200		0.849013	1	847022022.239005
105A540203	Resistor	R182,R183,R188		0.849013	3	321062264.960549
105A540233	Resistor	R815		0.849013	1	847022022.239005
105A543223	Resistor	R786		0.849013	1	847022022.239005
105A544229	Resistor	R809		0.849013	1	847022022.239005
105A547563	Resistor	R231		0.849013	1	847022022.239005
105A549919	Resistor	R283		0.849013	1	847022022.239005
105A549969	Resistor	R189,R190,R198,R256,R257		0.849013	5	201024426.307764
105A553623	Resistor	R790		0.849013	1	847022022.239005
105A564933	Resistor	R842		0.849013	1	847022022.239005
105A578713	Resistor	R840		0.849013	1	847022022.239005
105A578733	Resistor	R820		0.849013	1	847022022.239005
105A700003	Resistor	R375,R756,R757,R766,R773,R780,R799,R802,R803,R810,R846		0.849013	11	96149089.156414

**Reliability Prediction
Summary**

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Assembly: 9697BTC208-D
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700009	Resistor	R1,R10,R103 2,R1039, R1040,R228, R233, R234,R235,R 236, R246,R279,R 282, R284,R285,R 286, R289,R297,R 365, R370,R378,R 379, R402,R403,R 404, R427,R430,R 433, R437,R438,R 441, R442,R445,R 446, R447,R448,R 449, R450,R458,R 459, R461,R463,R 476, R478,R487,R 494, R495,R5,R5		0.849013	85	13312654.659889
105A70000A	Resistor	R1036,R1037 ,R307, R309,R312,R 314, R548,R549,R 576		0.849013	9	116263336.897173
105A700139	Resistor	R264,R281,R 711, R712		0.849013	4	246929276.068637

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A701039	Resistor	R1055,R212, R223, R224,R296,R 318, R326,R327,R 456, R457,R462,R 464, R465,R467,R 468, R477,R493,R 496, R500,R502,R 503, R504,R505,R 506, R513,R514,R 528, R529,R532,R 547, R615,R617,R 618, R621,R641,R 642, R644,R656,R 695, R699,R702,R 705, R714,R721,R 722, R789,R798,R 800		0.849013	60	18719718.379557
105A701059	Resistor	R227,R368,R 482, R501,R740		0.849013	5	201024426.307764
105A702039	Resistor	R731		0.849013	1	847022022.239005
105A702209	Resistor	R1043,R1044 ,R982, R984,R985,R 986		0.849013	6	169721870.032947
105A702229	Resistor	R210,R211,R 237, R238,R24,R2 59,R260, R262,R263,R 272, R274,R275,R 304, R315,R372,R 409, R436,R453,R 454, R653,R655		0.849013	21	51824835.228185

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105A702263	Resistor	R754,R755,R765, R856		0.849013	4	246929276.068637
105A703309	Resistor	R520,R530,R531, R645,R713,R901, R902		0.849013	7	146973713.897655
105A703329	Resistor	R287,R288,R291, R698		0.849013	4	246929276.068637
105A703363	Resistor	R804		0.849013	1	847022022.239005
105A704729	Resistor	R27,R293,R376,R377, R480,R483,R484, R485,R486,R550, R551,R639,R647		0.849013	13	82027715.764084
105A704739	Resistor	R12,R14,R15,R4,R7		0.849013	5	201024426.307764
105A705629	Resistor	R640		0.849013	1	847022022.239005
105A708209	Resistor	R1045,R1046,R1047, R1048,R1049,R1050, R1051,R1052		0.849013	8	129676274.094900
105A708229	Resistor	R270,R271,R869, R870,R871,R872, R875,R876,R877, R879,R880,R881, R882,R884,R887, R889,R890,R891, R892,R893,R894, R895,R897		0.849013	23	47478783.690871
105A710009	Resistor	R277,R278,R280		0.849013	3	321062264.960549
105A710039	Resistor	R1038,R1041,R155, R156,R276,R369, R374,R622,R623, R624,R626,R732, R745,R768,R836, R976		0.849013	16	67275419.428938

**Reliability Prediction
Summary**

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Assembly: 9697BTC208-D
Ref Des:
Description:

Failure Rate: 8708.830721
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A720009	Resistor	R213,R251		0.849013	2	462236335.164256
105A733009	Resistor	R736,R737		0.849013	2	462236335.164256
105A743033	Resistor	R847		0.849013	1	847022022.239005
105A747009	Resistor	R540,R696,R704, R707,R710,R718		0.849013	6	169721870.032947
106B501034	Resistor	RT1,RT2		0.849013	2	462236335.164256
106B510034	Resistor	RT3,RT4,RT5, RT6		0.849013	4	246929276.068637
1121415090	Capacitor	C394,C402		0.376269	2	1125869193.228148
1121501690	Capacitor	C113,C114,C115, C116,C117,C118, C119,C120,C121, C134,C140,C141, C143,C144,C151, C153,C154,C155, C156,C157,C159, C161,C162,C163, C166,C167,C170, C174,C177,C180, C181,C183,C185, C186,C187,C188, C189,C190,C191, C192,C193,C194,C20, C21,C220,C250,C252, C253,C2		0.376269	122	21302260.030070
1121501691	Capacitor	C407,C408,C409, C413,C414,C418, C419,C422,C423		0.376269	9	272590284.242838
1121533480	Capacitor	C385		0.376269	1	2114932934.076862

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1122568290	Capacitor	C693		0.376269	1	2114932934.07686 2
1124418090	Capacitor	C10,C257,C262,C6,C650,C651,C7,C9		0.376269	8	305240280.106194
1124420090	Capacitor	C282,C283		0.376269	2	1125869193.22814 8
1124427091	Capacitor	C210,C211		0.376269	2	1125869193.22814 8
1124515281	Capacitor	C386		0.376269	1	2114932934.07686 2
1124522290	Capacitor	C393,C401		0.376269	2	1125869193.22814 8
1129522790	Capacitor	C340		0.376269	1	2114932934.07686 2
1129601080	Capacitor	C325,C326,C330		0.376269	3	772542517.059210
1129622690	Capacitor	C137,C139,C23,C24,C29,C30,C55,C56,C93,C95		0.376269	10	246303172.644355
1129701790	Capacitor	C142,C160,C2,C276,C280,C281,C339,C44,C517,C518,C519,C520,C691,C84		0.376269	14	177948894.033705
1129710091	Capacitor	C287		0.376269	1	2114932934.07686 2
1129710391	Capacitor	C132,C313,C317		0.376269	3	772542517.059210
1129722091	Capacitor	C387		0.376269	1	2114932934.07686 2
1189610153	Capacitor	C328,TC2,TC3		0.376269	3	772542517.059210
1189615154	Capacitor	TC6		0.376269	1	2114932934.07686 2
1189633151	Capacitor	TC1,TC4,TC5,TC7,TC8		0.376269	5	478102470.597799
1189933180	Capacitor	TC10,TC11,TC12,TC9		0.376269	4	590620153.232529
11A2410240	Capacitor	C184		0.376269	1	2114932934.07686 2
11C1501080	Capacitor	C331		0.376269	1	2114932934.07686 2

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11C1539840	Capacitor	C209		0.376269	1	2114932934.07686 2
11C2510190	Capacitor	C653		0.376269	1	2114932934.07686 2
11C2510480	Capacitor	C312,C354,C 367, C368		0.376269	4	590620153.232529
11C2522650	Capacitor	C654,C657,C 658, C663		0.376269	4	590620153.232529
11C4522290	Capacitor	C358		0.376269	1	2114932934.07686 2
11C9510050	Capacitor	C345		0.376269	1	2114932934.07686 2
11C9510490	Capacitor	C196,C198,C 199, C202,C203,C 204, C205,C212,C 213, C214,C447,C 448, C449		0.376269	13	191185426.232527
11C9522060	Capacitor	C319		0.376269	1	2114932934.07686 2
11E1522680	Capacitor	C383,C660,C 661		0.376269	3	772542517.059210
11E2501030	Capacitor	C381		0.376269	1	2114932934.07686 2
11E2501690	Capacitor	C129,C335,C 346, C350,C351,C 399, C546,C562,C 656, C659,C662		0.376269	11	224677749.839387
11E2647650	Capacitor	C359		0.376269	1	2114932934.07686 2
11E3510010	Capacitor	C128,C135,C 352, C353,C389,C 390, C391,C392,C 396, C397,C398		0.376269	11	224677749.839387
11E4433090	Capacitor	C321,C322,C 327, C379		0.376269	4	590620153.232529
11E9501080	Capacitor	C400		0.376269	1	2114932934.07686 2

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Summary**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9501090	Capacitor	C15,C16,C169,C17,C171,C18,C19,C22,C25,C26,C27,C285,C32,C33,C34,C343,C382,C47,C48,C49,C58,C59,C60,C601,C603,C62,C63,C64,C65,C66,C67,C68,C69,C70,C71,C75,C76,C77,C78,C79,C80,C81,C82,C83,C85,C87,C88,C89,C90		0.376269	49	52368695.670673
11E9501091	Capacitor	C107,C108,C109,C11,C110,C12,C13,C264,C266,C284,C320,C357,C371,C410,C412,C416,C417,C421		0.376269	18	139435528.770218
11E9510050	Capacitor	C356		0.376269	1	2114932934.076862
11E9522490	Capacitor	C378,C380,C388		0.376269	3	772542517.059210
11E9547680	Capacitor	C136,C138,C364,C384		0.376269	4	590620153.232529
11E9547790	Capacitor	C74		0.376269	1	2114932934.076862

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11E9610080	Capacitor	C100,C101,C102, C105,C106,C182, C251,C255,C267, C271,C323,C324, C329,C337,C341, C342,C366,C370,C40, C41,C411,C415,C420, C50,C51,C52,C73, C99		0.376269	28	90636482.926706
11E9622050	Capacitor	C348,C349		0.376269	2	1125869193.228148
11E9622080	Capacitor	C133,C35,C36,C37, C38,C39,C43,C463, C464,C465,C466, C467,C468,C469, C470,C72		0.376269	16	156337442.408784
11E9647690	Capacitor	C53,C54		0.376269	2	1125869193.228148
11EA610040	Capacitor	C197,C200,C201		0.376269	3	772542517.059210
11EB501040	Capacitor	C279		0.376269	1	2114932934.076862
11EB522010	Capacitor	C302,C304,C307, C308,C310,C314		0.376269	6	401939175.169025
11EB610050	Capacitor	C333,C334,C361, C362		0.376269	4	590620153.232529
121110156R	Inductor	L1		1.648084	1	464282892.430380
1211104270	Inductor	L6,L7		1.648084	2	249603186.449247
1211115073	Inductor	L2		1.648084	1	464282892.430380
1211122070	Inductor	L4	61.5	4.343162	1	176179757.506485
121113307A	Inductor	L5		1.648084	1	464282892.430380
121113307G	Inductor	L3	65.4	4.568304	1	167496970.495899
1212306030	Inductor	FB1,FB13,FB14,FB2, FB3,FB4,FB5,FB6, FB7,FB8		1.648084	10	55455304.673616
12310025A3	Inductor	Y3		1.648084	1	464282892.430380
1231324055	Miscellaneous	Y6		6.400000	1	71532788.312819

File Name: COM-BYTC2.rfp
Assembly: 9697BTC208-D
Ref Des:
Description:

Failure Rate: 8708.830721
MTBF (hrs): 114,826
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
123132505D	Miscellaneous	Y1,Y7		6.400000	2	26562155.256590
1231332726	Miscellaneous	Y12,Y2		6.400000	2	26562155.256590
1301005444	Miscellaneous	D10,D11,D22		6.400000	3	17227514.214411
1301005450	Semiconductor	D18,D19		2.597804	2	151734285.670195
1301400642	Semiconductor	D17		2.597804	1	278421930.032950
1301793040	Semiconductor	D13,D9		2.597804	2	151734285.670195
1304001340	Optical Device	LED1,LED3		26.334452	2	11351167.746331
1304300140	Optical Device	LED2		26.334452	1	19491518.247337
1315230511	Semiconductor	Q25,Q9		7.487787	2	51945285.198303
1315443512	Semiconductor	Q20,Q21		7.487787	2	51945285.198303
1315490110	Semiconductor	Q36		7.487787	1	94927802.245258
1315700216	Semiconductor	Q22,Q66		7.487787	2	51945285.198303
1315720010	Semiconductor	Q33,Q34,Q35		7.487787	3	36129989.368618
1315762010	Semiconductor	Q32		7.487787	1	94927802.245258
1315EM6K10	Semiconductor	Q19,Q23,Q24,Q39,Q44,Q48,Q64,Q65,Q7		7.487787	9	13099416.319595
1430012830	Integrated Circuit	U51,U52,U53		43.803003	3	4923240.069161
1430021430	Integrated Circuit	U55		43.803003	1	11739202.588727
1430455200	Integrated Circuit	U38,U39,U40,U41,U42,U44		43.803003	6	2750969.191556
1430532190	Integrated Circuit	U56	53.3	1082.551198	1	475000.471281
1430973950	Integrated Circuit	U59	40.6	551.777368	1	931919.936584
143S596410	Integrated Circuit	U58		43.803003	1	11739202.588727
1440003301	Integrated Circuit	U36	49.5	889.374448	1	578173.041219
1440210IT0	Integrated Circuit	U29	41.4	576.551027	1	891876.529414
14408892E0	Integrated Circuit	U63		43.803003	1	11739202.588727
1440J19000	Integrated Circuit	U3	47.2	132.122981	1	3891921.940359
1490001080	Integrated Circuit	U61		43.803003	1	11739202.588727
149TB01040	Integrated Circuit	U20,U24		43.803003	2	6834791.244197
149TS01040	Integrated Circuit	U23,U30,U60,U62		43.803003	4	3879156.910661
14E0085280	Integrated Circuit	U25		43.803003	1	11739202.588727
14S1035803	Integrated Circuit	U68,U69		43.803003	2	6834791.244197
14S3010700	Integrated Circuit	U37		43.803003	1	11739202.588727
14S3112400	Integrated Circuit	U57		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U54		43.803003	1	11739202.588727
14S3524701	Integrated Circuit	U10		43.803003	1	11739202.588727
14S3621601	Integrated Circuit	U26		43.803003	1	11739202.588727
14S4251402	Integrated Circuit	U35		43.803003	1	11739202.588727
14S4911216	Integrated Circuit	U22		43.803003	1	11739202.588727
14S4963502	Integrated Circuit	U21		43.803003	1	11739202.588727
14S5A00802	Integrated Circuit	U46,U47		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U11,U48,U50		26.018600	3	9949526.289768

File Name: COM-BYTC2.rfp
Assembly: 9697BTC208-D
Ref Des:
Description:

Failure Rate: 8708.830721
MTBF (hrs): 114,826
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S5A03200	Integrated Circuit	U45		26.018600	1	25551442.237972
14S5A12506	Integrated Circuit	U17,U2		26.018600	2	14194252.866846
14S5A30601	Integrated Circuit	U5		26.018600	1	25551442.237972
14S6206403	Integrated Circuit	U18		43.803003	1	11739202.588727
14S6216060	Integrated Circuit	U28		43.803003	1	11739202.588727
14S9108500	Integrated Circuit	U43,U49		43.803003	2	6834791.244197
14S9346000	Integrated Circuit	U13	51.8	1002.237495	1	513064.350674
1540510380	Resistor	RP10,RP11,R P8		3.323812	3	64917987.224379
1540722085	Resistor	RP14,RP15,R P16, RP17,RP18		3.323812	5	42378892.278281
1600000403	Connection	SW1_1- 2_OFF		5.394945	1	107056774.080635
16515A2991	Connection	DIMM1		5.394945	1	107056774.080635
1653212100	Connection	CN6		5.394945	1	107056774.080635
16540M0000	Connection	CN1,CN2		5.394945	2	61170457.142237
1655305130	Connection	CN4		5.394945	1	107056774.080635
1655830100	Connection	CN3		5.394945	1	107056774.080635
1655902030	Connection	BAT1		5.394945	1	107056774.080635
1655903122	Connection	CN7		5.394945	1	107056774.080635
1655907130	Connection	CN5		5.394945	1	107056774.080635
1752002400	Connection	FS1		5.394945	1	107056774.080635