

# COM-BT-A30

## Reliability Prediction Report

### (MTBF)

Summary	Failure Rate: 5284.197615 MTBF: 189,243 Hours
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Issue date

QE Manager

Test Engineer

2018-07-20

KJ Wang

Danny Chen

# Reliability Prediction (MTBF)

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**I . Model Name:** COM-BT-A30

**II . Prediction Date:** July. 20th, 2018

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

**IV . Predicted by:** Danny Chen

**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-BT-A30 (M/B: 9697BT0012-D):

- Failure Rate: 5284.197615
- MTBF: 189,243 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** COM-BT-A30.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 5284.197615  
**MTBF (hrs):** 189,243  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
COM-BT-A30	9697BT0012-D		1	5284.197615	189,243

**File Name:** COM-BT-A30.rfp  
**Assembly:** 9697BT0012-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 5284.197615  
**MTBF (hrs):** 189,243  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500334	Resistor	R1921,R481, R497, R498		2.547039	4	82309758.689546
1050501054	Resistor	R630		2.547039	1	282340674.079668
1050501064	Resistor	R1001,R241		2.547039	2	154078778.388085
1050501234	Resistor	R629		2.547039	1	282340674.079668
1050501514	Resistor	R197,R201,R 202, R203		2.547039	4	82309758.689546
1050501634	Resistor	R490		2.547039	1	282340674.079668
1050502004	Resistor	R253,R254		2.547039	2	154078778.388085
1050502224	Resistor	R1627,R380, R384, R472,R525		2.547039	5	67008142.102588
1050503934	Resistor	R827,R844		2.547039	2	154078778.388085
1050504324	Resistor	R817		2.547039	1	282340674.079668
1050504724	Resistor	R160,R161,R 330, R332,R334,R 335, R411,R414,R 415, R416,R417,R 420, R425,R426		2.547039	14	25477245.255648
1050504734	Resistor	R603		2.547039	1	282340674.079668
1050505124	Resistor	R807		2.547039	1	282340674.079668
1050505633	Resistor	R849		2.547039	1	282340674.079668
1050507524	Resistor	R806		2.547039	1	282340674.079668
1050507530	Resistor	R792		2.547039	1	282340674.079668
1050510004	Resistor	R473,R491,R 526		2.547039	3	107020754.986850
1050510014	Resistor	R239,R240,R 499, R545,R779		2.547039	5	67008142.102588
1050510024	Resistor	R1917,R333, R336, R383,R388,R 390, R393,R396,R 401, R469,R471,R 728, R730,R734,R 768, R775,R834		2.547039	17	21160422.299251
1050510034	Resistor	R1918,R735, R738, R752,R753,R 763, R776,R787,R 796		2.547039	9	38754445.632391

**File Name:** COM-BT-A30.rfp  
**Assembly:** 9697BT0012-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 5284.197615  
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**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050510524	Resistor	R808		2.547039	1	282340674.079668
1050511034	Resistor	R852		2.547039	1	282340674.079668
1050513034	Resistor	R777		2.547039	1	282340674.079668
1050515034	Resistor	R833,R841,R845		2.547039	3	107020754.986850
1050516014	Resistor	R1910		2.547039	1	282340674.079668
1050516204	Resistor	R159		2.547039	1	282340674.079668
1050516934	Resistor	R832		2.547039	1	282340674.079668
1050516964	Resistor	R252		2.547039	1	282340674.079668
1050520034	Resistor	R261,R784		2.547039	2	154078778.388085
1050522124	Resistor	R857		2.547039	1	282340674.079668
1050524924	Resistor	R851		2.547039	1	282340674.079668
1050527424	Resistor	R759		2.547039	1	282340674.079668
1050529464	Resistor	R158		2.547039	1	282340674.079668
1050530124	Resistor	R761		2.547039	1	282340674.079668
1050531624	Resistor	R811,R812		2.547039	2	154078778.388085
1050533064	Resistor	R61,R62,R63,R64,R65,R66		2.547039	6	56573956.677649
1050536514	Resistor	R1631		2.547039	1	282340674.079668
1050540214	Resistor	R232		2.547039	1	282340674.079668
1050545324	Resistor	R786		2.547039	1	282340674.079668
1050545364	Resistor	R243,R255		2.547039	2	154078778.388085
1050549924	Resistor	R828		2.547039	1	282340674.079668
1050549964	Resistor	R189,R190,R198,R256,R257		2.547039	5	67008142.102588
1050561934	Resistor	R793		2.547039	1	282340674.079668
1050568124	Resistor	R632		2.547039	1	282340674.079668
1050569814	Resistor	R1920		2.547039	1	282340674.079668
1050573264	Resistor	R199,R265,R266,R268,R822,R823, R824		2.547039	7	48991237.965885

**Reliability Prediction  
Summary**

**File Name:** COM-BT-A30.rfp  
**Assembly:** 9697BT0012-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 5284.197615  
**MTBF (hrs):** 189,243  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050700004	Resistor	C14,R10,R19 19, R1925,R1929 ,R228, R233,R234,R 235, R236,R246,R 284, R285,R286,R 358,R37, R38,R39,R40 ,R402, R403,R405,R 41,R42, R427,R43,R4 30,R44, R45,R458,R4 59,R46, R461,R463,R 47,R476, R478,R48,R4 87,R49, R494,R495,R 5,R517, R518,R521,R 522, R523,R538,R 544, R571,		2.547039	76	4951856.924759

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**Description:**

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**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050701034	Resistor	R1033,R1632 ,R1633, R212,R223,R 224, R237,R238,R 279, R304,R318,R 326, R327,R328,R 352, R353,R361,R 362, R378,R400,R 456, R457,R462,R 464, R465,R467,R 468, R477,R479,R 489, R492,R493,R 496, R500,R502,R 503, R504,R505,R 506, R508,R513,R 514, R528,R547,R 577, R579,R580,R 5		2.547039	70	5366964.985587
1050701044	Resistor	R155,R156,R 1922, R1928,R1930 ,R338, R340,R345,R 357, R360,R363,R 375, R376,R377,R 379, R381,R382,R 512, R516,R622,R 623, R624,R626,R 732, R745,R835,R 836		2.547039	27	13557741.157915
1050703300	Resistor	R746		2.547039	1	282340674.079668
1050710014	Resistor	R13,R264,R7 11,R712		2.547039	4	82309758.689546



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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050747014	Resistor	R1629,R1630 ,R27, R480,R483,R 484, R485,R486,R 550, R551		2.547039	10	35079934.879747
1059700001	Resistor	R591		2.547039	1	282340674.079668
105A500103	Resistor	R791,R850,R 859		2.547039	3	107020754.986850
105A501003	Resistor	R819		2.547039	1	282340674.079668
105A502039	Resistor	R258,R267		2.547039	2	154078778.388085
105A503039	Resistor	R760,R771,R 816		2.547039	3	107020754.986850
105A503423	Resistor	R1911		2.547039	1	282340674.079668
105A505109	Resistor	R242,R245,R 247, R248,R250		2.547039	5	67008142.102588
105A510003	Resistor	R741,R742,R 743, R744		2.547039	4	82309758.689546
105A510223	Resistor	R795		2.547039	1	282340674.079668
105A511523	Resistor	R764		2.547039	1	282340674.079668
105A512413	Resistor	R230		2.547039	1	282340674.079668
105A515423	Resistor	R758		2.547039	1	282340674.079668
105A518723	Resistor	R818,R848		2.547039	2	154078778.388085
105A522133	Resistor	R860		2.547039	1	282340674.079668
105A523263	Resistor	R157		2.547039	1	282340674.079668
105A529429	Resistor	R853,R861		2.547039	2	154078778.388085
105A533269	Resistor	R839		2.547039	1	282340674.079668
105A535703	Resistor	R200		2.547039	1	282340674.079668
105A536023	Resistor	R767		2.547039	1	282340674.079668
105A540203	Resistor	R182,R183,R 188		2.547039	3	107020754.986850
105A540233	Resistor	R815		2.547039	1	282340674.079668
105A544229	Resistor	R809		2.547039	1	282340674.079668
105A546413	Resistor	R1916		2.547039	1	282340674.079668
105A547563	Resistor	R231		2.547039	1	282340674.079668
105A549919	Resistor	R590		2.547039	1	282340674.079668
105A553623	Resistor	R790		2.547039	1	282340674.079668
105A564933	Resistor	R842		2.547039	1	282340674.079668
105A578713	Resistor	R840		2.547039	1	282340674.079668
105A578733	Resistor	R820		2.547039	1	282340674.079668

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**Ref Des:**  
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**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700003	Resistor	R1036,R1037, R1628, R307,R309,R 311, R314,R548,R 549, R574,R576,R 578, R756,R757,R 766, R773,R780,R 799, R802,R803,R 810, R846		2.547039	22	16518584.576317
105A701059	Resistor	R227,R347,R 359, R374,R406,R 482, R501,R740		2.547039	8	43225424.698300
105A702039	Resistor	R259,R260,R 272, R731		2.547039	4	82309758.689546
105A702209	Resistor	R438,R445,R 446, R447,R448,R 982, R984,R985,R 986		2.547039	9	38754445.632391
105A702229	Resistor	R204,R205,R 208, R209,R210,R 211, R216,R217,R 225, R226,R24,R2 62,R263, R274,R275,R 315, R372,R409,R 428, R436,R440,R 444, R453,R454,R 460, R466,R509,R 510, R527,R560,R 561, R562,R564,R 567, R586,R587,R 588, R653,R655		2.547039	39	9493970.778443

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**Ref Des:**  
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A702263	Resistor	R754,R755,R765, R856		2.547039	4	82309758.689546
105A703309	Resistor	R531		2.547039	1	282340674.079668
105A703363	Resistor	R804		2.547039	1	282340674.079668
105A704739	Resistor	R12,R14,R15,R4,R7		2.547039	5	67008142.102588
105A708229	Resistor	R270,R271		2.547039	2	154078778.388085
105A710009	Resistor	R277,R278,R280		2.547039	3	107020754.986850
105A720009	Resistor	R213,R251		2.547039	2	154078778.388085
105A733009	Resistor	R736,R737		2.547039	2	154078778.388085
105A743033	Resistor	R847		2.547039	1	282340674.079668
105A747009	Resistor	R540,R696,R701,R704,R707,R710, R718		2.547039	7	48991237.965885
106B501034	Resistor	RT1,RT2		2.547039	2	154078778.388085
106B510034	Resistor	RT3,RT4,RT5,RT6		2.547039	4	82309758.689546
1121415090	Capacitor	C394,C402		1.128806	2	375289731.076049

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501690	Capacitor	C103,C104,C113, C114,C115,C116, C117,C118,C119, C120,C121,C122, C123,C124,C125, C126,C127,C130, C131,C140,C141, C143,C144,C145, C146,C147,C148, C149,C150,C151, C152,C153,C154, C155,C156,C157, C158,C159,C161, C162,C163,C165, C170,C174,C180, C181,C183,C185,		1.128806	129	6719530.991435
1121533480	Capacitor	C385		1.128806	1	704977644.692287
1122568290	Capacitor	C693		1.128806	1	704977644.692287
1124418090	Capacitor	C10,C257,C262,C9		1.128806	4	196873384.410843
1124427090	Capacitor	C223,C224,C6,C7		1.128806	4	196873384.410843
1124433090	Capacitor	C321,C322,C327, C379		1.128806	4	196873384.410843
1124515281	Capacitor	C386		1.128806	1	704977644.692287
1124522290	Capacitor	C358,C393,C401		1.128806	3	257514172.353070
1129522790	Capacitor	C340		1.128806	1	704977644.692287
1129601080	Capacitor	C325,C326,C330, C400		1.128806	4	196873384.410843
1129610051	Capacitor	C356		1.128806	1	704977644.692287

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1129610080	Capacitor	C100,C101,C102, C105,C106,C111, C112,C128,C129, C182,C226,C234, C239,C251,C255, C323,C324,C329, C337,C341,C342, C366,C370,C40,C41, C50,C51,C52,C73, C99		1.128806	30	28241202.507613
1129622690	Capacitor	C137,C139,C23,C24, C29,C30,C55,C56, C93,C95		1.128806	10	82101057.548118
1129701790	Capacitor	C142,C160,C2,C339, C44,C517,C518,C519, C520,C521,C522, C523,C524,C84		1.128806	14	59316298.011235
1129710090	Capacitor	C492		1.128806	1	704977644.692287
1129710390	Capacitor	C184,C313		1.128806	2	375289731.076049
1129722091	Capacitor	C387		1.128806	1	704977644.692287
1189610151	Capacitor	C328,TC2,TC3		1.128806	3	257514172.353070
1189615154	Capacitor	TC6		1.128806	1	704977644.692287
1189633151	Capacitor	TC1,TC4,TC5,TC7, TC8		1.128806	5	159367490.199266
1189933180	Capacitor	TC10,TC11,TC12, TC13,TC9		1.128806	5	159367490.199266
11C1501030	Capacitor	C331		1.128806	1	704977644.692287
11C1539841	Capacitor	C222		1.128806	1	704977644.692287
11C2510190	Capacitor	C653		1.128806	1	704977644.692287
11C2510480	Capacitor	C312,C317,C354, C367,C368		1.128806	5	159367490.199266
11C2522650	Capacitor	C654,C657,C658, C663		1.128806	4	196873384.410843
11C9510050	Capacitor	C345		1.128806	1	704977644.692287

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11C9522060	Capacitor	C319		1.128806	1	704977644.692287
11E1501040	Capacitor	C357		1.128806	1	704977644.692287
11E1522440	Capacitor	C378,C388		1.128806	2	375289731.076049
11E1522680	Capacitor	C383,C660,C661		1.128806	3	257514172.353070
11E2501080	Capacitor	C381		1.128806	1	704977644.692287
11E2501690	Capacitor	C335,C346,C350,C351,C399,C656,C659,C662		1.128806	8	101746760.035398
11E2647650	Capacitor	C359		1.128806	1	704977644.692287
11E3510012	Capacitor	C352,C353,C389,C390,C391,C392,C396,C397,C398		1.128806	9	90863428.080946
11E9501090	Capacitor	C15,C16,C169,C17,C171,C18,C19,C22,C225,C25,C26,C27,C279,C285,C32,C33,C34,C343,C382,C47,C48,C49,C58,C59,C60,C600,C601,C603,C62,C63,C64,C65,C66,C67,C68,C69,C694,C695,C70,C71,C75,C76,C77,C78,C79,C80,C81,C82,C83,C85,C87,C88,C89,C90		1.128806	54	15865848.114680
11E9522490	Capacitor	C380		1.128806	1	704977644.692287
11E9547680	Capacitor	C136,C138,C364,C384		1.128806	4	196873384.410843
11E9622050	Capacitor	C302,C304,C307,C310,C314,C348,C349		1.128806	7	115633865.771428

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11E9622052	Capacitor	C308		1.128806	1	704977644.692287
11E9622080	Capacitor	C35,C36,C37,C38,C39,C43,C463,C464,C465,C466,C467,C468,C469,C470,C72		1.128806	15	55479656.844874
11E9647690	Capacitor	C53,C54		1.128806	2	375289731.076049
11EB501040	Capacitor	C107,C108,C109,C11,C110,C12,C13,C264,C266,C320,C371		1.128806	11	74892583.279796
11EB547740	Capacitor	C74		1.128806	1	704977644.692287
11EB610050	Capacitor	C333,C334,C361,C362		1.128806	4	196873384.410843
121110156P	Inductor	L1		4.944252	1	154760964.143460
1211104270	Inductor	L6,L7		4.944252	2	83201062.149749
121111507E	Inductor	L2		4.944252	1	154760964.143460
1211122070	Inductor	L4		4.944252	1	154760964.143460
1211133075	Inductor	L3		4.944252	1	154760964.143460
121113307A	Inductor	L5		4.944252	1	154760964.143460
12123C000E	Inductor	FB1,FB2,FB3		4.944252	3	57363284.375370
12310024A0	Miscellaneous	Y6		19.200000	1	23844262.770939
123132505D	Miscellaneous	Y1,Y5		19.200000	2	8854051.752197
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
1301005444	Semiconductor	D10,D11,D6		7.793411	3	35106858.962001
1301005450	Semiconductor	D1,D13,D16,D18,D19,D2,D3,D4,D5,D7,D8		7.793411	11	10495888.688121
1301400642	Semiconductor	D17		7.793411	1	92807310.010983
1301793040	Semiconductor	D20,D9		7.793411	2	50578095.223398
1304001340	Optical Device	LED1,LED3		79.003355	2	3783722.582110
1304300140	Optical Device	LED2		79.003355	1	6497172.749112
1315000530	Semiconductor	Q45		22.463360	1	31642600.748419
1315443512	Semiconductor	Q20,Q21		22.463360	2	17315095.066101
1315490110	Semiconductor	Q36		22.463360	1	31642600.748419
1315642DT0	Semiconductor	Q33,Q34,Q35		22.463360	3	12043329.789539
1315700216	Semiconductor	Q22,Q38		22.463360	2	17315095.066101

**File Name:** COM-BT-A30.rfp  
**Assembly:** 9697BT0012-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 5284.197615  
**MTBF (hrs):** 189,243  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315EM6K10	Semiconductor	Q13,Q14,Q19,Q23,Q24,Q39,Q41,Q42,Q44,Q48,Q49,Q50,Q51,Q7		22.463360	14	2878021.548809
1315EMB090	Semiconductor	Q32		22.463360	1	31642600.748419
1426GP2120	Integrated Circuit	U12,U9		43.803003	2	6834791.244197
1430012830	Integrated Circuit	U51,U52,U53		43.803003	3	4923240.069161
1430021430	Integrated Circuit	U55		43.803003	1	11739202.588727
1430053250	Integrated Circuit	U37		43.803003	1	11739202.588727
1430455200	Integrated Circuit	U38,U39,U40,U41,U42,U44		43.803003	6	2750969.191556
1430532190	Integrated Circuit	U56		43.803003	1	11739202.588727
1430973740	Integrated Circuit	U59		43.803003	1	11739202.588727
143S596410	Integrated Circuit	U58		43.803003	1	11739202.588727
1440211AT0	Integrated Circuit	U31		43.803003	1	11739202.588727
1440E38450	Integrated Circuit	U3		43.803003	1	11739202.588727
1462CMBTA1	Integrated Circuit	U18		11.063278	1	58231413.220643
1490001080	Integrated Circuit	U61		43.803003	1	11739202.588727
149TB01040	Integrated Circuit	U20,U24		43.803003	2	6834791.244197
149TS01040	Integrated Circuit	U23,U29,U30,U60		43.803003	4	3879156.910661
14E0085280	Integrated Circuit	U25		43.803003	1	11739202.588727
14E0CMBTA0	Integrated Circuit	U28		43.803003	1	11739202.588727
14S1035803	Integrated Circuit	U62		43.803003	1	11739202.588727
14S3112400	Integrated Circuit	U57		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U54		43.803003	1	11739202.588727
14S3621601	Integrated Circuit	U26		43.803003	1	11739202.588727
14S4251402	Integrated Circuit	U35		43.803003	1	11739202.588727
14S4631500	Integrated Circuit	U66,U67		43.803003	2	6834791.244197
14S4911216	Integrated Circuit	U22		43.803003	1	11739202.588727
14S5A00802	Integrated Circuit	U46,U47		26.018600	2	14194252.866846
14S5A00821	Integrated Circuit	U11,U48,U50,U63,U64		26.018600	5	6292206.574138
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			11.063278	1	58231413.220643
14S6216060	Integrated Circuit			11.063278	1	58231413.220643
14S9108500	Integrated Circuit	U43,U49		43.803003	2	6834791.244197
14S9330600	Integrated Circuit	U14,U15,U7,U8		43.803003	4	3879156.910661
14S9346001	Integrated Circuit	U13		43.803003	1	11739202.588727
1600030803	Connection	SW1		16.184835	1	35685591.360212
16515A2991	Connection	DIMM1		16.184835	1	35685591.360212



**Reliability Prediction  
Summary**

**File Name:** COM-BT-A30.rfp  
**Assembly:** 9697BT0012-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 5284.197615  
**MTBF (hrs):** 189,243  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
16540M0001	Connection	CN1,CN2		16.184835	2	20390152.380746
1655902034	Connection	BAT1		16.184835	1	35685591.360212
1655903122	Connection	CN11		16.184835	1	35685591.360212
1655907130	Connection	CN5		16.184835	1	35685591.360212
1655912032	Connection	CN6		16.184835	1	35685591.360212