

UPS-EHL01

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 2147.828869 MTBF: 465,586 Hours
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Issue date

Deputy Manager

Test Engineer

2022-07-18

Louie Lee

Max Chang

Reliability Prediction (MTBF)

I . Model Name: UPS-EHL01

II. Prediction Date: July. 18th, 2022

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

IV. Predicted by: Max Chang

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:

UPS-EHL01 (M/B: 9697UPSE07-D):

- Failure Rate: 2147.828869
- MTBF: 465,586 Hours

AAEON Reliability Prediction Summary

File Name: UPS-EHL01.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 2147.828869
MTBF (hrs): 465,586
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
UPS-EHL01	System		1	2147.828869	465,586

File Name: UPS-EHL01.rfp**Assembly:** System**Ref Des:****Description:****Failure Rate:** 2147.828869**MTBF (hrs):** 465,586**Temperature:** 30**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050200134	Resistor	R290,R305		0.849013	2	462236335.164256
1050501054	Resistor	R199,R200,R370, R539,R615,R624, R638		0.849013	7	146973713.897655
1050501514	Resistor	R244,R406,R618, R619,R626,R627		0.849013	6	169721870.032947
1050502224	Resistor	R319		0.849013	1	847022022.239005
1050502234	Resistor	R322,R325		0.849013	2	462236335.164256
1050502734	Resistor	R529		0.849013	1	847022022.239005
1050504734	Resistor	R632		0.849013	1	847022022.239005
1050504764	Resistor	R561		0.849013	1	847022022.239005
1050505124	Resistor	R309		0.849013	1	847022022.239005
1050505134	Resistor	R361,R378,R423		0.849013	3	321062264.960549
1050505164	Resistor	R201,R49,R52,R56, R57,R58,R62		0.849013	7	146973713.897655
1050505604	Resistor	R532		0.849013	1	847022022.239005
1050507530	Resistor	R120,R432,R509		0.849013	3	321062264.960549
1050510004	Resistor	R12,R203,R416,R479, R524,R546,R547, R548,R576,R598, R599		0.849013	11	96149089.156414
1050510014	Resistor	R184,R314,R380, R551,R62		0.849013	5	201024426.307764
1050510024	Resistor	PR3,R15,R16,R296, R318,R373,R4,R566, R567,R569,R578,R9		0.849013	12	88521251.248203

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1050510034	Resistor	R103,R107,R133, R136,R186,R217, R226,R312,R316, R326,R338,R377,R42, R430,R440,R450, R461,R463,R508, R514,R517,R527, R629,R644,R659		0.849013	25	43810838.253457
1050510524	Resistor	R366		0.849013	1	847022022.239005
1050511034	Resistor	R594		0.849013	1	847022022.239005
1050511304	Resistor	R70		0.849013	1	847022022.239005
1050513334	Resistor	R435,R589		0.849013	2	462236335.164256
1050515034	Resistor	R253		0.849013	1	847022022.239005
1050520004	Resistor	R187,R80,R83		0.849013	3	321062264.960549
1050520034	Resistor	R114,R412,R451, R560		0.849013	4	246929276.068637
1050520044	Resistor	R601		0.849013	1	847022022.239005
1050524004	Resistor	R222,R223,R288, R289,R487,R488, R579,R580		0.849013	8	129676274.094900
1050533064	Resistor	R26,R38,R428,R512, R513,R536		0.849013	6	169721870.032947
1050533234	Resistor	R555		0.849013	1	847022022.239005
1050541224	Resistor	R631		0.849013	1	847022022.239005
1050545364	Resistor	R581		0.849013	1	847022022.239005
1050547004	Resistor	R213,R220,R225, R230,R266,R268, R269,R270,R413		0.849013	9	116263336.897173
1050549904	Resistor	R550,R630		0.849013	2	462236335.164256
1050549924	Resistor	R584		0.849013	1	847022022.239005
1050549964	Resistor	R167,R171,R191		0.849013	3	321062264.960549
1050568124	Resistor	R250,R261		0.849013	2	462236335.164256
1050590934	Resistor	R460		0.849013	1	847022022.239005

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1050700004	Resistor	R118,R125,R168, R188,R202,R204, R294,R297,R358, R359,R403,R405, R434,R442,R464, R465,R467,R468, R470,R471,R474, R476,R480,R535, R543,R553,R558, R562,R564,R565, R587,R588,R593, R597,R602,R603, R604,R605,R606, R609,R616,R663, R664		0.849013	43	25902682.840693
1050701034	Resistor	R163,R654,R655,R79		0.849013	4	246929276.068637
1050701044	Resistor	R162,R346,R367, R388,R395,R424, R452,R455,R78,R85		0.849013	10	105239804.639242
1050701504	Resistor	R357,R365,R376, R384,R385,R87,R88, R89		0.849013	8	129676274.094900
1050708234	Resistor	R362,R372,R421		0.849013	3	321062264.960549
1050710014	Resistor	R109,R142,R374, R375,R401,R46,R55, R563,R611		0.849013	9	116263336.897173
1050747014	Resistor	R126,R323,R33,R40, R634		0.849013	5	201024426.307764
1059700001	Resistor	R339,R340		0.849013	2	462236335.164256
105A501529	Resistor	R595		0.849013	1	847022022.239005

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105A501539	Resistor	R291,R306		0.849013	2	462236335.164256
105A502039	Resistor	R308,R313		0.849013	2	462236335.164256
105A507509	Resistor	R321,R324		0.849013	2	462236335.164256
105A508233	Resistor	R369		0.849013	1	847022022.239005
105A511023	Resistor	R368		0.849013	1	847022022.239005
105A516519	Resistor	R596		0.849013	1	847022022.239005
105A518229	Resistor	PR2		0.849013	1	847022022.239005
105A524919	Resistor	R614,R623		0.849013	2	462236335.164256
105A547529	Resistor	PR1,R379		0.849013	2	462236335.164256
105A560469	Resistor	R190,R469		0.849013	2	462236335.164256
105A561924	Resistor	R585		0.849013	1	847022022.239005
105A700003	Resistor	PR5,R124,R153,R17,R18,R292,R300,R36,R481,R482,R621		0.849013	11	96149089.156414
105A701059	Resistor	R386		0.849013	1	847022022.239005
105A701069	Resistor	R410		0.849013	1	847022022.239005
105A702039	Resistor	R174,R175,R179,R180,R387,R41,R411,R48		0.849013	8	129676274.094900
105A702229	Resistor	R177,R181,R3,R583,R586,R592,R608,R635,R645,R646		0.849013	10	105239804.639242
105A702269	Resistor	R293		0.849013	1	847022022.239005
105A710009	Resistor	R317,R441,R515		0.849013	3	321062264.960549
105A733009	Resistor	R590,R600		0.849013	2	462236335.164256
105A747009	Resistor	R656,R657,R658,R660,R661,R662		0.849013	6	169721870.032947
105A756039	Resistor	R502		0.849013	1	847022022.239005
105B504905	Resistor	R234,R274,R276		0.849013	3	321062264.960549

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105B700009	Resistor	R1,R10,R119, R135, R152,R189,R 2,R20, R22,R228,R2 3,R238, R239,R24,R2 40,R241, R247,R255,R 258, R264,R265,R 275, R277,R278,R 279, R320,R329,R 343, R344,R355,R 360, R371,R383,R 414, R418,R420,R 437, R438,R445,R 447, R449,R456,R 486, R492,R499,R 503, R507,R510,R 521, R523		0.849013	73	15453046.352770
105B700139	Resistor	R122,R123,R 192, R197,R207,R 214, R216,R227,R 245, R248,R257,R 648, R649		0.849013	13	82027715.764084
105B701009	Resistor	R27,R28,R34 7,R348, R349,R350,R 351, R352,R353,R 354,R43		0.849013	11	96149089.156414

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105B701039	Resistor	R102,R106,R11,R113,R116,R14,R145,R157,R158,R159,R160,R19,R231,R232,R246,R249,R251,R254,R256,R259,R260,R282,R283,R327,R345,R356,R364,R381,R390,R397,R399,R400,R408,R409,R415,R495,R518,R519,R530,R60,R636,R637,R74,R84, R99		0.849013	45	24781727.025882
105B703309	Resistor	R117,R132,R143,R77, R96		0.849013	5	201024426.307764
105B705109	Resistor	R195,R196,R233,R237,R483,R491, R506		0.849013	7	146973713.897655
105B710009	Resistor	R498		0.849013	1	847022022.239005
105B710039	Resistor	R271,R422,R504,R505,R522,R531,R540,R647		0.849013	8	129676274.094900
105X000016	Resistor	R65		0.849013	1	847022022.239005
1121501690	Capacitor	C17,C20,C279,C285,C290,C309,C311,C319,C330,C353,C357,C358,C371,C407,C445,C484,C512,C562,C577, C581		0.376269	20	125851224.102495

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1124410190	Capacitor	C115,C162		0.376269	2	1125869193.228148
1124433090	Capacitor	C573,C574,C584, C585		0.376269	4	590620153.232529
1124522190	Capacitor	C368,C374,C415, C589		0.376269	4	590620153.232529
1124522680	Capacitor	C460,C483,C583		0.376269	3	772542517.059210
1124547290	Capacitor	C586		0.376269	1	2114932934.076862
1129522790	Capacitor	C282,C286,C289, C305,C314,C316, C575		0.376269	7	346901597.314283
1129701790	Capacitor	C350		0.376269	1	2114932934.076862
1129710090	Capacitor	C556		0.376269	1	2114932934.076862
1129715090	Capacitor	C389,C390		0.376269	2	1125869193.228148
1189615154	Capacitor	TC1,TC2		1.581495	2	258148352.242493
118A6221B0	Capacitor	C356		1.581495	1	478989080.145412
118A6331B0	Capacitor	C53		1.581495	1	478989080.145412
118C6331B0	Capacitor	C132,C145,C148, C179,C180,C280		1.581495	6	93537404.032564
118C6331B2	Capacitor	C246,C247,C537, C555		1.581495	4	136517588.113593

File Name: UPS-EHL01.rfp**Assembly:** System**Ref Des:****Description:****Failure Rate:** 2147.828869**MTBF (hrs):** 465,586**Temperature:** 30**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11A2412051	Capacitor	C101,C114,C121, C125,C128,C129, C136,C137,C138, C147,C156,C178, C182,C186,C190, C192,C195,C196, C203,C204,C207, C208,C213,C217, C219,C229,C236, C242,C433,C444, C479,C489,C492, C528,C540,C541,C82, C96,C99		0.376269	39	65523510.506156
11A4312041	Capacitor	C383,C384		0.376269	2	1125869193.228148
11A4410150	Capacitor	C339,C342,C345		0.376269	3	772542517.059210
11A4922690	Capacitor	C146,C166,C209, C211,C220,C267, C416,C426,C481, C490,C495,C496, C542,C545,C80,C87, C94		0.376269	17	147399909.221434
11AX000001	Capacitor	C554		0.376269	1	2114932934.076862
11AX000050	Capacitor	C232,C508,C517		0.376269	3	772542517.059210
11C1515440	Capacitor	C312		0.376269	1	2114932934.076862
11C1547890	Capacitor	C369,C409,P C2		0.376269	3	772542517.059210
11C4501790	Capacitor	C557		0.376269	1	2114932934.076862
11C4515290	Capacitor	C351		0.376269	1	2114932934.076862

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11C9510490	Capacitor	C127,C227,C430		0.376269	3	772542517.059210
11CB510350	Capacitor	C325,C326,C327, C328		0.376269	4	590620153.232529
11E1501040	Capacitor	C294,C296,C304, C310,C329,C332, C385,C393,C551, C576,C6		0.376269	11	224677749.839387
11E1547631	Capacitor	C364,C405,C539		0.376269	3	772542517.059210
11E2501040	Capacitor	C299,C465,C467, C478,C548,C549, C561,C563		0.376269	8	305240280.106194
11E2501690	Capacitor	C261,C298,C323, C372,C377,C378, C380,C381,C394, C399,C400,C450, C458,C50,C558,C66, C67,C73,PC3		0.376269	19	132293090.650579
11E2610032	Capacitor	C258,C275,C276, C277,C284,C288, C291,C292,C320, C321,C322,C359, C367,C375,C391, C550,C579		0.376269	17	147399909.221434
11E2622011	Capacitor	C151,C152,C153,C29, C30,C31,C32, C33, C376,C379,C382		0.376269	11	224677749.839387
11E4501031	Capacitor	C565		0.376269	1	2114932934.076862

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11E9510490	Capacitor	C1,C10,C11, C12,C13, C14,C16,C18 ,C2, C224,C228,C 23,C230, C231,C234,C 235, C237,C24,C2 40,C25, C251,C256,C 257,C27, C270,C28,C3 ,C303, C306,C354,C 36,C363, C37,C39,C40 ,C410, C412,C414,C 42,C420, C43,C431,C4 34,C435, C436,C439,C 453, C485,C487,C 488, C491,C499,C 501, C278,C297,C 308, C333,C559,C 580		0.376269	80	32317981.838505
11E9647690	Capacitor	C278,C297,C 308, C333,C559,C 580		0.376269	6	401939175.169025

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11EA501050	Capacitor	C106,C107,C108, C109,C113,C130, C131,C133,C134, C140,C141,C144, C154,C157,C158, C161,C167,C170, C171,C175,C176, C177,C183,C184, C187,C188,C191, C194,C199,C206, C214,C215,C218, C222,C226,C239, C244,C245,C248, C249,C265,C266, C315,C324,C335, C365,C422,C423,		0.376269	93	27855322.680205
11EA610040	Capacitor	C116,C119,C173, C197,C216,C26, C263,C295,C302,C331, C35,C361,C45		0.376269	13	191185426.232527
11EA610120	Capacitor	C172,C293,C532,C61, C70		0.376269	5	478102470.597799

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11EA622040	Capacitor	C100,C102,C103, C105,C110,C111, C112,C117,C118, C126,C135,C139, C142,C143,C150, C159,C160,C163, C165,C168,C169, C181,C185,C189, C205,C221,C223, C225,C238,C241, C243,C260,C264, C272,C366,C417, C418,C421,C429, C441,C486,C534, C535,C538,C72,C81, C83,C90,C92		0.376269	51	50349391.714575
11EA647030	Capacitor	C122,C123,C124, C149,C174,C250, C259,C262,C271, C273,C283,C287,C34, C343,C346,C401, C404,C408,C411, C419,C463,C464, C472,C76,C79,C89		0.376269	26	97442635.592299
11EA647450	Capacitor	C510		0.376269	1	2114932934.076862

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11EB501040	Capacitor	C164,C193,C370,C373,C38,C388,C398,C88		0.376269	8	305240280.106194
11EB510450	Capacitor	C198,C200,C201,C202,C210,C212		0.376269	6	401939175.169025
11EB522490	Capacitor	C21,C22,C252,C253,C254,C255,C4,C5		0.376269	8	305240280.106194
11EB522640	Capacitor	C19,C387,C527,C531		0.376269	4	590620153.232529
11EB610041	Capacitor	C104,C268,C269,C338,C341,C344,C386,C402,C425,C511,C567,C578,C590,C84		0.376269	14	177948894.033705
11EB622030	Capacitor	C307,C313,C317,C334,C348,C349,C352,C392,C395,C396,C397,C403,C406,C413,C44,C442,C447,C448,C449,C454,C456,C46,C47,C48,C49,C52,C54,C55,C582,C588,C60,C63,C64,C65,C68,C71		0.376269	36	70872453.887864
11EB647640	Capacitor	C336,C340,C51,PC1		0.376269	4	590620153.232529
1211106879	Inductor	L9		1.648084	1	464282892.430380
121110687E	Inductor	L3,L4		1.648084	2	249603186.449247
1211110078	Inductor	L1,L6		1.648084	2	249603186.449247
1211X00045	Inductor	L8		1.648084	1	464282892.430380
1211X00049	Inductor	L5		1.648084	1	464282892.430380
1211X00082	Inductor	L7		1.648084	1	464282892.430380

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121230603N	Inductor	FB10,FB6		1.648084	2	249603186.449247
121230603S	Inductor	FB7,FB9		1.648084	2	249603186.449247
12123C0007	Inductor	FB1		1.648084	1	464282892.430380
12123C003B	Inductor	FB17		1.648084	1	464282892.430380
12123D0008	Inductor	FB3,FB4		1.648084	2	249603186.449247
12123D0009	Inductor	FB14,FB15,F B16		1.648084	3	172089853.126111
12123D0601	Inductor	FB11,FB13		1.648084	2	249603186.449247
1214109000	Inductor	CH17,CH7,C H8		1.648084	3	172089853.126111
121410900A	Inductor	CH1,CH10,C H11,CH12, CH13,CH14,C H2,CH3, CH4,CH5,CH 6,CH9		1.648084	12	46561849.550951
12310025A2	Miscellaneous	Y3,Y4		6.400000	2	26562155.256590
1231038450	Miscellaneous	Y2		6.400000	1	71532788.312819
1231327631	Miscellaneous	Y1		6.400000	1	71532788.312819
1301001000	Semiconductor	D17,D18		2.597804	2	151734285.670195
1301005450	Semiconductor	D15		2.597804	1	278421930.032950
1301793040	Semiconductor	D11,D12,D13 ,D14,D3, D4,D5		2.597804	7	48157491.364337
1304000043	Optical Device	LED5		26.334452	1	19491518.247337
1304101440	Optical Device	LED4		26.334452	1	19491518.247337
1304200043	Optical Device	LED3		26.334452	1	19491518.247337
1304300140	Optical Device	LED1,LED2		26.334452	2	11351167.746331
1305040241	Semiconductor	D16,D6,D7,D 8		2.597804	4	80967252.378705
1305050040	Semiconductor	D1		2.597804	1	278421930.032950
1305Z40240	Semiconductor	D2		2.597804	1	278421930.032950
1310390410	Semiconductor	Q9		7.487787	1	94927802.245258
1315000530	Semiconductor	Q11		7.487787	1	94927802.245258
1315013810	Semiconductor	Q18,Q19,Q5		7.487787	3	36129989.368618
131520P030	Semiconductor	Q10		7.487787	1	94927802.245258
1315230111	Semiconductor	Q8		7.487787	1	94927802.245258
1315230211	Semiconductor	Q22,Q27		7.487787	2	51945285.198303
1315EM6K70	Semiconductor	Q1,Q12,Q13, Q14,Q16, Q17,Q2,Q20, Q21,Q23, Q24,Q25,Q2 6,Q4,Q6, Q7		7.487787	16	7601396.649411
1315Q00030	Semiconductor	Q15		7.487787	1	94927802.245258
1430006850	Integrated Circuit	U58		14.601001	1	35217607.766180
1430021430	Integrated Circuit	U30,U6		14.601001	2	20504373.732590
1430052330	Integrated Circuit	U49		14.601001	1	35217607.766180

File Name: UPS-EHL01.rfp

Assembly: System

Ref Des:

Description:

Failure Rate: 2147.828869

MTBF (hrs): 465,586

Temperature: 30

Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1435682150	Integrated Circuit	U20,U25		14.601001	2	20504373.732590
14356C2150	Integrated Circuit	PU1		14.601001	1	35217607.766180
143ALC8880	Integrated Circuit	U57		14.601001	1	35217607.766180
143PS20010	Integrated Circuit	U24,U54		14.601001	2	20504373.732590
143X000077	Integrated Circuit	U38		14.601001	1	35217607.766180
143X000148	Integrated Circuit	U17,U18,U29 ,U33, U41,U5		14.601001	6	8252907.574668
143X000149	Integrated Circuit	U50		14.601001	1	35217607.766180
1440038081	Integrated Circuit	U16		14.601001	1	35217607.766180
1448111HC0	Integrated Circuit	U52,U56		14.601001	2	20504373.732590
144SP330E0	Integrated Circuit	U11		14.601001	1	35217607.766180
144X000163	Integrated Circuit	U35		7.235588	1	71067107.373746
145901G320	Integrated Circuit	U26,U28,U31		8.672867	3	29848578.869305
14590AUP10	Integrated Circuit	U4		8.672867	1	76654326.713917
145X000006	Integrated Circuit	U51		8.672867	1	76654326.713917
1462002562	Integrated Circuit	U2		3.687759	1	174694239.661928
1468X00013	Integrated Circuit	U14,U47		3.687759	2	97701282.298877
146900000K	Integrated Circuit	U21		3.687759	1	174694239.661928
149SLB9670	Integrated Circuit	U19		14.601001	1	35217607.766180
149X000038	Integrated Circuit	U45		14.601001	1	35217607.766180
14S3009900	Integrated Circuit	U22,U23,U36 ,U39, U40,U43,U46		14.601001	7	7225589.208772
14S3104500	Integrated Circuit	U1,U12,U13, U27,U32, U34,U42,U44 ,U48, U53,U55		14.601001	11	4860212.570904
14S5A00821	Integrated Circuit	U3,U7,U8,U9		8.672867	4	23090938.677580
1601000990	Connection	SW1		5.394945	1	107056774.080635
1652503109	Connection	CN6		5.394945	1	107056774.080635
1652828200	Connection	CN12		5.394945	1	107056774.080635
165300310G	Connection	JP1		5.394945	1	107056774.080635
165300320Q	Connection	CN11		5.394945	1	107056774.080635
16530X0013	Connection	CN1		5.394945	1	107056774.080635
16530X0041	Connection	CN8		5.394945	1	107056774.080635
165330010E	Connection	JP1(2-3)		5.394945	1	107056774.080635
1653530130	Connection	CN2		5.394945	1	107056774.080635
1654207533	Connection	CN10		5.394945	1	107056774.080635
165420753B	Connection	CN4		5.394945	1	107056774.080635
1654403931	Connection	CN9		5.394945	1	107056774.080635
1654801832	Connection	CN7		5.394945	1	107056774.080635
1654809302	Connection	CN13		5.394945	1	107056774.080635
1654907009	Connection	CN15		5.394945	1	107056774.080635
1655302025	Connection	CN16		5.394945	1	107056774.080635
1655802020	Connection	CN19		5.394945	1	107056774.080635
1655906033	Connection	CN17,CN18		5.394945	2	61170457.142237

Reliability Prediction Summary

File Name: UPS-EHL01.rfp

Assembly: System

Ref Des:

Description:

Failure Rate: 2147.828869

MTBF (hrs): 465,586

Temperature: 30

Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1655X00019	Connection	CN14		5.394945	1	107056774.080635
1655X00031	Connection	CN3		5.394945	1	107056774.080635
175011301K	Miscellaneous	CN14		102.000000	1	5045049.020362
1752011002	Miscellaneous	F2,F3		0.800000	2	431834181.589876
1752300001	Miscellaneous	F1		0.800000	1	763878127.807005