

Report NO : 23UP070001

UPN-ADLN01

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 2369.372506 MTBF: 422,053 Hours
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Issue date

2023-02-16

Deputy Manager

Louie Lee

Test Engineer

Max Chang

Reliability Prediction (MTBF)

I . Model Name: UPN-ADLN01

II. Prediction Date: February. 16th, 2023

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:

UPN-ADLN01 (M/B: 9697NADN0A-D):

- Failure Rate: 2369.372506
- MTBF: 422,053 Hours

AAEON Reliability Prediction Summary

File Name: UPN-ADLN01.rfp

Duty Cycle: 100

Calculation Model: Telcordia Issue 2

Method: Method I Case 3

Failure Rate: 2369.372506

MTBF (hrs): 422,053

Temperature: 30

Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
UPN-ADLN01	System		1	2369.372506	422,053

File Name: UPN-ADLN01.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 2369.372506
MTBF (hrs): 422,053
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501054	Resistor	R192,R457,R458, R706,R707		0.849013	5	201024426.307764
1050501514	Resistor	R176,R178,R7,R8		0.849013	4	246929276.068637
1050502224	Resistor	R349,R5,R518,R519		0.849013	4	246929276.068637
1050502234	Resistor	R353,R354,R394, R430		0.849013	4	246929276.068637
1050502734	Resistor	R863		0.849013	1	847022022.239005
1050504724	Resistor	R610,R618,R624		0.849013	3	321062264.960549
1050505124	Resistor	R361		0.849013	1	847022022.239005
1050505134	Resistor	R697,R715,R723		0.849013	3	321062264.960549
1050505164	Resistor	R760		0.849013	1	847022022.239005
1050505604	Resistor	R221		0.849013	1	847022022.239005
1050507530	Resistor	R105,R347,R53,R87		0.849013	4	246929276.068637
1050510004	Resistor	R152,R20,R219,R60, R62,R709,R71,R785, R858,R862		0.849013	10	105239804.639242
1050510014	Resistor	R350,R605,R78,R86		0.849013	4	246929276.068637
1050510024	Resistor	R154,R155,R600, R603,R729		0.849013	5	201024426.307764
1050510034	Resistor	R460,R461,R464, R524,R539,R542, R739,R789,R790, R922,R924,R966, R967		0.849013	13	82027715.764084
1050510524	Resistor	R721		0.849013	1	847022022.239005
1050511304	Resistor	R153		0.849013	1	847022022.239005
1050515034	Resistor	R688		0.849013	1	847022022.239005
1050518034	Resistor	R733		0.849013	1	847022022.239005
1050520004	Resistor	R121,R141,R175, R393,R429		0.849013	5	201024426.307764
1050520034	Resistor	R173,R652,R659, R737		0.849013	4	246929276.068637
1050520044	Resistor	R587		0.849013	1	847022022.239005
1050524004	Resistor	R273,R274		0.849013	2	462236335.164256
1050530034	Resistor	R732		0.849013	1	847022022.239005

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1050533034	Resistor	R768		0.849013	1	847022022.239005
1050533064	Resistor	R139,R611		0.849013	2	462236335.164256
1050545364	Resistor	R786		0.849013	1	847022022.239005
1050549904	Resistor	R22,R23,R25 ,R28, R59		0.849013	5	201024426.307764
1050549924	Resistor	R528		0.849013	1	847022022.239005
1050549964	Resistor	R266,R64,R6 5,R809, R812,R817,R 818, R819,R821		0.849013	9	116263336.897173
1050551034	Resistor	R705,R770		0.849013	2	462236335.164256
1050568124	Resistor	R676,R692,R 700, R708		0.849013	4	246929276.068637
1050700004	Resistor	C223,C224,R 166, R168,R172,R 174, R188,R19,R1 94,R202, R222,R223,R 224, R225,R227,R 229, R231,R232,R 233, R235,R237,R 305, R307,R325,R 334, R369,R405,R 509, R526,R529,R 564, R565,R566,R 567, R568,R569,R 582, R586,R590,R 591, R598,R604,R 606, R656,R670,R 677, R678,R680,R		0.849013	102	11131975.016852

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1050701034	Resistor	R159,R160,R161, R162,R163,R165, R206,R210,R236, R269,R270,R271, R272,R321,R323, R332,R333,R494, R520,R570,R571, R579,R691,R695, R727,R728,R738,R77, R800,R860,R864, R869,R873,R880, R887		0.849013	35	31636868.154805
1050701044	Resistor	R196,R197,R21,R479, R6,R699,R701,R702, R703,R704,R777, R778,R780,R781, R782,R784,R787,R9, R914,R955		0.849013	20	54314137.534189
1050704304	Resistor	R61		0.849013	1	847022022.239005
1050708234	Resistor	R714,R722		0.849013	2	462236335.164256
1050710014	Resistor	R170,R213,R314, R315,R36,R38,R54, R55,R56,R804,R810, R939,R940		0.849013	13	82027715.764084
1050747014	Resistor	R180,R189,R497, R498,R588,R589, R650,R662,R663, R664,R665,R666, R667,R807,R861,R90, R95		0.849013	17	63481266.897754

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1050756004	Resistor	R613		0.849013	1	847022022.239005
1059700001	Resistor	R311,R368,R404, R510		0.849013	4	246929276.068637
105A501139	Resistor	R712		0.849013	1	847022022.239005
105A502039	Resistor	R357,R360,R607, R713		0.849013	4	246929276.068637
105A503039	Resistor	R710		0.849013	1	847022022.239005
105A503363	Resistor	R827,R871,R878, R885		0.849013	4	246929276.068637
105A505109	Resistor	R58,R66,R72		0.849013	3	321062264.960549
105A507509	Resistor	R351,R352,R808		0.849013	3	321062264.960549
105A507533	Resistor	R179		0.849013	1	847022022.239005
105A523239	Resistor	R761		0.849013	1	847022022.239005
105A527469	Resistor	R134,R135,R136		0.849013	3	321062264.960549
105A547529	Resistor	R718		0.849013	1	847022022.239005
105A560469	Resistor	R164,R187		0.849013	2	462236335.164256
105A700003	Resistor	R226,R239,R459, R716,R724,R763, R918		0.849013	7	146973713.897655
105A700009	Resistor	R552,R553,R554, R555,R951		0.849013	5	201024426.307764
105A701039	Resistor	R490,R491		0.849013	2	462236335.164256
105A701059	Resistor	R720,R932		0.849013	2	462236335.164256
105A701069	Resistor	R167		0.849013	1	847022022.239005
105A702039	Resistor	R100,R169,R171		0.849013	3	321062264.960549
105A702229	Resistor	R144,R147,R148, R151,R473,R474, R475,R477,R638, R639,R640,R641, R653,R654,R655, R856,R913,R968, R969		0.849013	19	57057557.345310
105A703309	Resistor	R915		0.849013	1	847022022.239005
105A703329	Resistor	R395,R431		0.849013	2	462236335.164256
105A715003	Resistor	R397,R401,R402, R433,R435,R436		0.849013	6	169721870.032947
105A747009	Resistor	R18		0.849013	1	847022022.239005

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105B502035	Resistor	R279,R281,R283, R284,R286,R287, R288,R294,R295, R297,R298		0.849013	11	96149089.156414
105B700009	Resistor	R111,R112,R113, R114,R115,R116,R12, R122,R123,R124, R125,R126,R127, R128,R129,R13,R130, R131,R132,R133, R138,R14,R140,R15, R289,R30,R301,R31, R316,R331,R336, R338,R340,R344, R345,R35,R37,R377, R378,R382,R385, R392,R409,R410, R413,R414,R415, R416,R426,R44,		0.849013	102	11131975.016852
105B700139	Resistor	R191,R201,R257, R259		0.849013	4	246929276.068637
105B701009	Resistor	R275,R276,R277, R278,R280,R282, R285,R291,R292, R293,R296		0.849013	11	96149089.156414

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105B701039	Resistor	R195,R198,R200, R203,R204,R313, R341,R358,R391, R398,R399,R400, R403,R424,R434, R437,R438,R439, R517,R530,R531, R532,R536,R541, R548,R549,R608, R614,R615,R616, R620,R621,R622, R626,R628,R632, R645,R857,R953		0.849013	39	28481912.335330
105B702205	Resistor	R647		0.849013	1	847022022.239005
105B702225	Resistor	R515,R516,R934, R935,R936,R937, R941,R944,R946, R961,R962,R963, R964		0.849013	13	82027715.764084
105B703309	Resistor	R326,R327,R328, R339,R342,R386, R388,R389,R39, R390,R40,R41,R417, R419,R42,R420,R423, R43,R572,R573,R574, R578,R580,R634, R635,R636		0.849013	26	42183230.481444
105B704725	Resistor	R372,R408		0.849013	2	462236335.164256

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105B710039	Resistor	R205,R207,R208, R209,R211,R212, R214,R215,R216, R646,R648,R657, R658,R668,R954, R965		0.849013	16	67275419.428938
105B733019	Resistor	R373,R374,R375, R376,R379,R396, R421,R422,R425, R427,R428,R432		0.849013	12	88521251.248203
105X000016	Resistor	R758		0.849013	1	847022022.239005
105X000034	Resistor	R711		0.849013	1	847022022.239005
105X000036	Resistor	R502,R504,R506, R508		0.849013	4	246929276.068637
105X000052	Resistor	R24,R26,R27,R32, R33		0.849013	5	201024426.307764
106B500144	Resistor	RT1,RT2		2.574860	2	115789852.304312
1121501690	Capacitor	C11,C202,C203,C213, C214,C217,C218, C225,C226,C232, C237,C238,C239, C242,C262,C270, C271,C272,C288, C289,C290,C318, C322,C376,C378, C379,C381,C388, C389,C415,C417, C420,C424,C431, C432,C435,C9		0.376269	37	68994517.896904
1124368690	Capacitor	C236		0.376269	1	2114932934.076862

File Name: UPN-ADLN01.rfp**Assembly:** System**Ref Des:****Description:****Failure Rate:** 2369.372506**MTBF (hrs):** 422,053**Temperature:** 30**Environment:** GF, GU - Ground Fixed, Uncontrolled

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1124410190	Capacitor	C134,C397,C398, C653,C654,C660, C661		0.376269	7	346901597.314283
1124418090	Capacitor	C235		0.376269	1	2114932934.076862
1124433690	Capacitor	C105,C107,C109, C137,C229		0.376269	5	478102470.597799
1124522190	Capacitor	C450,C468		0.376269	2	1125869193.228148
1124522680	Capacitor	C517		0.376269	1	2114932934.076862
1124533190	Capacitor	C372,C373		0.376269	2	1125869193.228148
1129522790	Capacitor	C205,C206,C209, C210,C221,C222, C240,C241		0.376269	8	305240280.106194
1129622690	Capacitor	C479		0.376269	1	2114932934.076862
1129701790	Capacitor	C655		0.376269	1	2114932934.076862
1129710090	Capacitor	C264		0.376269	1	2114932934.076862
1129715090	Capacitor	C6,C8		0.376269	2	1125869193.228148
1129747090	Capacitor	C442		0.376269	1	2114932934.076862
1189615154	Capacitor	TC1,TC2,TC3		0.376269	3	772542517.059210
118A6221B0	Capacitor	C215,C227		0.376269	2	1125869193.228148
118C6331B2	Capacitor	C558,C570,C580, C592		0.376269	4	590620153.232529
118X000012	Capacitor	C553		0.376269	1	2114932934.076862
11A2410051	Capacitor	C233,C83,C84,C85, C86,C87,C88		0.376269	7	346901597.314283
11A4312041	Capacitor	C160,C161,C164, C165,C187,C188, C191,C192,C2,C281, C282,C299,C3,C300		0.376269	14	177948894.033705

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11A4410150	Capacitor	C247,C250,C251,C658,C659		0.376269	5	478102470.597799
11A4415041	Capacitor	C104,C106,C108,C135		0.376269	4	590620153.232529
11A4439040	Capacitor	C230		0.376269	1	2114932934.076862
11A4922690	Capacitor	C162,C163,C166,C167,C189,C190,C193,C194		0.376269	8	305240280.106194
11AX000045	Capacitor	C355,C357,C359,C361		0.376269	4	590620153.232529
11AX000073	Capacitor	C248,C249		0.376269	2	1125869193.228148
11C1547890	Capacitor	C454,C474		0.376269	2	1125869193.228148
11C4510480	Capacitor	C554,C619,C630,C640		0.376269	4	590620153.232529
11C4533240	Capacitor	C534,C540,C541		0.376269	3	772542517.059210
11C4547141	Capacitor	C421,C545,C546,C547		0.376269	4	590620153.232529
11C9510490	Capacitor	C351,C374,C393,C437,C438,C439,C480,C486,C487,C525,C527,C528,C529,C531,C599,C601,C604,C606,C609,C611,C652,C665,C667,C669		0.376269	24	105361853.809630
11CB510350	Capacitor	C348,C349,C350,C353,C400		0.376269	5	478102470.597799
11E1501040	Capacitor	C231,C245,C246,C261,C4,C5,C7		0.376269	7	346901597.314283
11E1547650	Capacitor	C59		0.376269	1	2114932934.076862
11E2501040	Capacitor	C363,C371,C616		0.376269	3	772542517.059210

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11E2501690	Capacitor	C283,C301,C333, C334,C335,C401, C402,C403,C404, C406,C407,C408, C410,C447,C448, C449,C459,C465, C466,C467,C510, C524,C544,C549, C615,C617,C621, C632,C642		0.376269	29	87579781.141919
11E2610032	Capacitor	C483,C598		0.376269	2	1125869193.228148
11E2622011	Capacitor	C443,C444,C445, C446,C461,C462, C463,C464,C508, C509,C550,C551, C552,C622,C623, C624,C633,C634, C635,C643,C644, C645,C656,C657		0.376269	24	105361853.809630
11E4982641	Capacitor	C234		0.376269	1	2114932934.076862

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11E9510490	Capacitor	C136,C197,C198, C200,C201,C265, C277,C278,C279, C280,C295,C296, C297,C298,C317, C319,C320,C321, C323,C324,C325, C326,C327,C328, C383,C384,C385, C386,C391,C392, C394,C395,C396, C412,C413,C422, C423,C427,C428, C492,C77		0.376269	41	62386520.714803
11E9610190	Capacitor	C559,C571,C583, C595		0.376269	4	590620153.232529
11E9622052	Capacitor	C380		0.376269	1	2114932934.076862
11E9622080	Capacitor	C488,C489,C490, C491,C511,C512, C513,C514,C515, C518,C519,C520, C556,C557,C625, C626,C636,C637, C646,C647		0.376269	20	125851224.102495
11E9647690	Capacitor	C425,C426,C429, C430,C433,C434		0.376269	6	401939175.169025

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11EA501050	Capacitor	C141,C142,C143, C144,C145,C146, C148,C149,C150, C151,C152,C153, C155,C156,C157, C158,C168,C169, C170,C171,C172, C173,C175,C176, C177,C178,C179, C180,C182,C183, C184,C185,C228, C256,C257,C258, C411,C56,C78,C79, C80,C82,C89,C90, C91,C92		0.376269	46	55722401.780333

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11EA610040	Capacitor	C114,C115,C116, C117,C118,C119, C120,C121,C122, C123,C124,C125, C126,C127,C128, C129,C147,C154, C159,C174,C181, C186,C196,C199, C204,C216,C219, C220,C24,C25,C26, C260,C269,C27,C276, C28,C287,C29,C294, C30,C31,C32,C33, C336,C34,C35,C36, C37,C38,C39,C40, C4		0.376269	72	35856150.687924

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EA622040	Capacitor	C100,C101,C102, C103,C110,C111, C112,C113,C12,C13, C14,C15,C16,C17, C18,C19,C20,C21, C22,C23,C266,C267, C268,C273,C274, C275,C284,C285, C286,C291,C292, C293,C45,C46,C47, C48,C49,C50,C51, C52,C53,C54,C55, C57,C605,C610,C651, C668,C96,C97,C98, C99		0.376269	52	49397271.108782
11EA647030	Capacitor	C42,C43,C44,C469, C470,C471,C472, C476,C477,C505, C506,C66		0.376269	12	206570811.903534
11EB501040	Capacitor	C405,C409,C436, C543,C548,C620, C631,C641,C69		0.376269	9	272590284.242838
11EB510450	Capacitor	C329,C330,C331, C332,C340,C341, C342,C343		0.376269	8	305240280.106194
11EB522490	Capacitor	C354,C356,C358, C360		0.376269	4	590620153.232529
11EB522640	Capacitor	C195,C58,C614		0.376269	3	772542517.059210

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Assembly: System

Ref Des:

Description:

Failure Rate: 2369.372506

MTBF (hrs): 422,053

Temperature: 30

Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11EB610041	Capacitor	C252,C253,C254, C255,C263,C362, C364,C368,C382, C414,C416		0.376269	11	224677749.839387
11EB610050	Capacitor	C484,C485,C504, C521,C522		0.376269	5	478102470.597799
11EB622030	Capacitor	C352,C365,C366, C367,C387,C451, C452,C453,C456, C457,C458,C600,C75		0.376269	13	191185426.232527
11EB647640	Capacitor	C243,C244,C369, C370,C460,C478		0.376269	6	401939175.169025
1211106874	Inductor	L5		1.648084	1	464282892.430380
1211106876	Inductor	L8		1.648084	1	464282892.430380
1211110078	Inductor	L6		1.648084	1	464282892.430380
121111007B	Inductor	L2,L3		1.648084	2	249603186.449247
1211X00048	Inductor	L9		1.648084	1	464282892.430380
1211X00049	Inductor	L4		1.648084	1	464282892.430380
1211X00114	Inductor	L10,L14,L15, L16		1.648084	4	131738617.274324
121230603N	Inductor	FB11,FB5,FB7		1.648084	3	172089853.126111
121230603S	Inductor	FB18		1.648084	1	464282892.430380
12123A000D	Inductor	FB10,FB9		1.648084	2	249603186.449247
12123B000U	Inductor	FB21,FB22,FB23, FB24		1.648084	4	131738617.274324
12123C0007	Inductor	FB20		1.648084	1	464282892.430380
12123D0008	Inductor	FB1,FB3		1.648084	2	249603186.449247
12123D0009	Inductor	FB12,FB14,FB15		1.648084	3	172089853.126111
12123D0601	Inductor	FB13,FB16		1.648084	2	249603186.449247
1214109000	Inductor	CH1		1.648084	1	464282892.430380

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Assembly: System

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Description:

Failure Rate: 2369.372506

MTBF (hrs): 422,053

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Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
121410900A	Inductor	CH10,CH11,C H12, CH13,CH17,C H18, CH19,CH2,C H20,CH3, CH4,CH5,CH 6,CH7, CH8,CH9		1.648084	16	35295646.364185
1231038450	Miscellaneous	Y2		6.400000	1	71532788.312819
1231327631	Miscellaneous	Y1		6.400000	1	71532788.312819
1231X00003	Miscellaneous	Y3,Y4		6.400000	2	26562155.256590
12330024A3	Miscellaneous	Y5		6.400000	1	71532788.312819
1301001000	Semiconductor	D22		2.597804	1	278421930.032950
1301005444	Semiconductor	D1		2.597804	1	278421930.032950
1301005450	Semiconductor	D2,D8		2.597804	2	151734285.670195
1301020400	Semiconductor	D5		2.597804	1	278421930.032950
1301793040	Semiconductor	D11,D12,D14 ,D15, D16,D17,D18 ,D19, D21,D23,D24 ,D26,D3		2.597804	13	26859101.488970
13041005S0	Optical Device	LED3		26.334452	1	19491518.247337
13041005S1	Optical Device	LED1		26.334452	1	19491518.247337
13041005Z0	Optical Device	LED2		26.334452	1	19491518.247337
1304300140	Optical Device	LED4		26.334452	1	19491518.247337
1305040241	Semiconductor	D10,D6,D7		2.597804	3	105320576.886002
1305050040	Semiconductor	D9		2.597804	1	278421930.032950
1305Z40240	Semiconductor	D25		2.597804	1	278421930.032950
131520P030	Semiconductor	Q26		7.487787	1	94927802.245258
1315230211	Semiconductor	Q27		7.487787	1	94927802.245258
1315EM6K70	Semiconductor	Q10,Q12,Q1 7,Q2,Q22, Q23,Q28,Q2 9,Q3,Q30, Q31,Q8,Q9		7.487787	13	9265032.724501
1315Q00030	Semiconductor	Q13,Q21,Q2 5		7.487787	3	36129989.368618
1420USB300	Integrated Circuit	U30		14.601001	1	35217607.766180
142ADC0810	Integrated Circuit	U43		14.601001	1	35217607.766180
142X000087	Integrated Circuit	U56,U63,U64 ,U65, U74		14.601001	5	9642634.206300
1430021430	Integrated Circuit	U51		14.601001	1	35217607.766180
1430052330	Integrated Circuit	U49		14.601001	1	35217607.766180
1435682150	Integrated Circuit	U47		14.601001	1	35217607.766180
14356C2150	Integrated Circuit	U48		14.601001	1	35217607.766180
143ALC8880	Integrated Circuit	U9		14.601001	1	35217607.766180
143PS20010	Integrated Circuit	U31		14.601001	1	35217607.766180

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Failure Rate: 2369.372506

MTBF (hrs): 422,053

Temperature: 30

Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
143X000126	Integrated Circuit	U53		14.601001	1	35217607.766180
143X000198	Integrated Circuit	U59,U66		14.601001	2	20504373.732590
143X000199	Integrated Circuit	U67,U68		14.601001	2	20504373.732590
143X000243	Integrated Circuit	U58		14.601001	1	35217607.766180
1440038080	Integrated Circuit	U50,U73		14.601001	2	20504373.732590
144X000041	Integrated Circuit	U38,U39		14.601001	2	20504373.732590
144X000132	Integrated Circuit	U37		14.601001	1	35217607.766180
144X000285	Integrated Circuit	U10,U14		14.601001	2	20504373.732590
144X000336	Integrated Circuit	U1		7.235588	1	71067107.373746
145901G320	Integrated Circuit	U54,U55,U57		8.672867	3	29848578.869305
14590AUP10	Integrated Circuit	U3		8.672867	1	76654326.713917
145X000011	Integrated Circuit	U46		8.672867	1	76654326.713917
1462002562	Integrated Circuit			3.687759	1	174694239.661928
1463X00007	Integrated Circuit			3.687759	1	174694239.661928
1468X00020	Integrated Circuit	U4,U5		3.687759	2	97701282.298877
1469X00009	Integrated Circuit	U6		3.687759	1	174694239.661928
148X000023	Integrated Circuit	U42		8.672867	1	76654326.713917
149SLB9670	Integrated Circuit	U40		14.601001	1	35217607.766180
149X000105	Integrated Circuit	U23		14.601001	1	35217607.766180
149X000188	Integrated Circuit	U25		14.601001	1	35217607.766180
14EX001360	Integrated Circuit	U28		14.601001	1	35217607.766180
14EX001361	Integrated Circuit	U71,U72		14.601001	2	20504373.732590
14EX001373	Integrated Circuit	U36		14.601001	1	35217607.766180
14S3104500	Integrated Circuit	U12,U13,U15 ,U17, U18,U19,U20 ,U21, U22,U26,U27 ,U32, U33,U34,U69 ,U70		14.601001	16	3474042.727016
14S5A00821	Integrated Circuit	U2		8.672867	1	76654326.713917
14S5A30601	Integrated Circuit	U44,U45		8.672867	2	42582758.600538
14S63C2560	Integrated Circuit			3.687759	1	174694239.661928
1540100040	Resistor	RN1		3.323812	1	154820723.013643
1601000990	Connection	SW1		5.394945	1	107056774.080635
165250320K	Connection	CN20		5.394945	1	107056774.080635
1652708203	Connection	CN23		5.394945	1	107056774.080635
16528X0015	Connection	CN6		5.394945	1	107056774.080635
165300310G	Connection	JP1		5.394945	1	107056774.080635
1653006205	Connection	CN18		5.394945	1	107056774.080635
1653020200	Connection	CN17		5.394945	1	107056774.080635
165330010G	Connection	JP1(2-3)1		5.394945	1	107056774.080635
1654207533	Connection	CN4		5.394945	1	107056774.080635
165420753A	Connection	CN3		5.394945	1	107056774.080635
165420753B	Connection	CN2		5.394945	1	107056774.080635
1654403931	Connection	CN8		5.394945	1	107056774.080635

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Ref Des:
Description:

Failure Rate: 2369.372506
MTBF (hrs): 422,053
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1654801832	Connection	CN13		5.394945	1	107056774.080635
16548X0017	Connection	CN12		5.394945	1	107056774.080635
1654900693	Connection	SIM1		5.394945	1	107056774.080635
1654907009	Connection	CN10		5.394945	1	107056774.080635
16549X0033	Connection	CN9		5.394945	1	107056774.080635
1655302025	Connection	CN11		5.394945	1	107056774.080635
1655803131	Connection	CN19		5.394945	1	107056774.080635
1655804030	Connection	J1		5.394945	1	107056774.080635
1655901000	Connection	CN15,CN16		5.394945	2	61170457.142237
1655906033	Connection	CN21		5.394945	1	107056774.080635
1655X00019	Connection	CN1		5.394945	1	107056774.080635
1655X00031	Connection	CN14		5.394945	1	107056774.080635
175011301K	Miscellaneous	CN1		102.000000	1	5045049.020362
1752011002	Miscellaneous	F1,F2		0.800000	2	431834181.589876
1752300001	Miscellaneous	F3		0.800000	1	763878127.807005