

# AHP-1083HTT

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 7771.785425 MTBF: 128,671 Hours
---------	--

Issue date	QE Manager	Test Engineer
2018-03-30	KJ Wang	Jack Huang

# Reliability Prediction (MTBF)

---

**I . Model Name:** AHP-1083HTT

**II . Prediction Date:** March. 30th, 2018

**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:**

AHP-1083HTT (M/B: 9697CV050X-D):

- Failure Rate: 7771.785425
- MTBF: 128,671 Hours

**File Name:** AHP-1083HTT.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
AHP-1083HTT	9697CV050X-S		1	7771.785425	128,671

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501004	Resistor	R221,R415,R436, R548		2.547039	4	82309758.689546
1050501834	Resistor	R443		2.547039	1	282340674.079668
1050502204	Resistor	R158,R161		2.547039	2	154078778.388085
1050504764	Resistor	R108,R36		2.547039	2	154078778.388085
1050505124	Resistor	R259,R360,R446		2.547039	3	107020754.986850
1050505633	Resistor	R424		2.547039	1	282340674.079668
1050507524	Resistor	R214,R276,R567		2.547039	3	107020754.986850
1050507530	Resistor	R244,R267		2.547039	2	154078778.388085
1050510034	Resistor	R116,R138,R18,R286,R309,R354,R368,R395,R441,R452,R457,R471,R476,R610,R623,R628,R71,R84,R88		2.547039	19	19019185.781770
1050512104	Resistor	R254		2.547039	1	282340674.079668
1050513034	Resistor	R124,R444,R77		2.547039	3	107020754.986850
1050514034	Resistor	R328,R613,R614, R624		2.547039	4	82309758.689546
1050515034	Resistor	R113		2.547039	1	282340674.079668
1050522114	Resistor	R453		2.547039	1	282340674.079668
1050524904	Resistor	R201,R89		2.547039	2	154078778.388085
1050547004	Resistor	R331,R333,R37,R540,R543		2.547039	5	67008142.102588
1050560434	Resistor	R12		2.547039	1	282340674.079668
1050561934	Resistor	R107		2.547039	1	282340674.079668
1050590964	Resistor	R111,R118,R172, R174		2.547039	4	82309758.689546
1050700002	Resistor	R592		2.547039	1	282340674.079668
1050702734	Resistor	R30		2.547039	1	282340674.079668
1050703334	Resistor	R460		2.547039	1	282340674.079668
1059700001	Resistor	R241,R318,R325		2.547039	3	107020754.986850
1059710003	Resistor	R418,R419		2.547039	2	154078778.388085
105A500139	Resistor	R173,R182,R234,R237,R398,R422,R87,R95		2.547039	8	43225424.698300
105A500239	Resistor	R73		2.547039	1	282340674.079668

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A501039	Resistor	R109,R112,R119,R13,R14,R215,R219,R225,R240,R293,R377,R379,R384,R408,R409,R428,R447,R451,R462,R477,R478,R500,R507,R528,R529,R564,R595,R75,R76,R99		2.547039	30	12244464.256771
105A501233	Resistor	R278,R575		2.547039	2	154078778.388085
105A501413	Resistor	R423		2.547039	1	282340674.079668
105A501529	Resistor	R125		2.547039	1	282340674.079668
105A501539	Resistor	R294,R296,R585		2.547039	3	107020754.986850
105A502039	Resistor	R34,R362,R393		2.547039	3	107020754.986850
105A503039	Resistor	R527		2.547039	1	282340674.079668
105A503309	Resistor	R10,R105,R126,R131,R132,R137,R140,R150,R168,R185,R202,R25,R399,R526,R562,R563,R603, R640		2.547039	18	20032117.836120
105A505109	Resistor	R142,R163,R167,R171,R181,R186		2.547039	6	56573956.677649
105A505163	Resistor	R356		2.547039	1	282340674.079668
105A505629	Resistor	R135,R21,R416,R438,R463		2.547039	5	67008142.102588
105A507509	Resistor	R206,R386,R387, R388		2.547039	4	82309758.689546

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A510009	Resistor	R11,R120,R130,R139,R208,R253,R26,R400,R413,R427,R553, R560		2.547039	12	29507083.749401
105A512039	Resistor	R69		2.547039	1	282340674.079668
105A514014	Resistor	R98		2.547039	1	282340674.079668
105A515009	Resistor	R220,R223,R226,R635,R636,R637		2.547039	6	56573956.677649
105A522669	Resistor	R101,R205		2.547039	2	154078778.388085
105A523713	Resistor	R230		2.547039	1	282340674.079668
105A524919	Resistor	R345,R346		2.547039	2	154078778.388085
105A527403	Resistor	R199		2.547039	1	282340674.079668
105A528723	Resistor	R238		2.547039	1	282340674.079668
105A533269	Resistor	R193		2.547039	1	282340674.079668
105A540213	Resistor	R355		2.547039	1	282340674.079668
105A549969	Resistor	R196,R207,R509, R510		2.547039	4	82309758.689546
105A551119	Resistor	R122		2.547039	1	282340674.079668
105A554969	Resistor	R204,R412		2.547039	2	154078778.388085
105A560423	Resistor	R32		2.547039	1	282340674.079668
105A560469	Resistor	R162,R190		2.547039	2	154078778.388085
105A561909	Resistor	R405		2.547039	1	282340674.079668
105A561924	Resistor	R156		2.547039	1	282340674.079668
105A561933	Resistor	R39		2.547039	1	282340674.079668
105A568103	Resistor	R216		2.547039	1	282340674.079668
105A573223	Resistor	R273,R406		2.547039	2	154078778.388085
105A700003	Resistor	R212,R266,R456,R570,R616,R617,R633,R641,R7,R83, R96		2.547039	11	32049696.385471

**Reliability Prediction  
Summary**

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700009	Resistor	R110,R133,R136, R146,R147,R151, R152,R155,R159, R160,R180,R194, R200,R211,R213, R232,R235,R251, R255,R261,R262, R263,R268,R269, R270,R280,R283, R291,R335,R338, R363,R364,R365, R370,R375,R38,R385, R389,R391,R450, R506,R51,R516,R525, R532,R534,R535, R537,R5		2.547039	68	5521341.955009



**Reliability Prediction  
Summary**

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700139	Resistor	R100,R149,R15,R169,R183,R184,R187,R229,R260,R264,R272,R277,R29,R307,R308,R310,R311,R317,R326,R330,R347,R35,R353,R359,R361,R407,R410,R417,R42,R420,R45,R46,R47,R48,R480,R491,R521,R54,R561,R615,R622,R74,R78,R79,R82,R86,R90, R93		2.547039	48	7757394.358017

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A701039	Resistor	R114,R129,R148, R189,R19,R191,R192, R20,R209,R210,R22, R227,R23,R233,R239, R243,R249,R256, R265,R27,R271,R275, R279,R284,R289, R295,R301,R303, R304,R306,R315, R320,R321,R322, R329,R332,R337, R340,R341,R342, R343,R344,R348, R349,R374,R41,R425, R437,R454,R4		2.547039	75	5016500.228829
105A701059	Resistor	R127,R217,R24,R242, R297,R302,R31,R392, R404,R596,R621, R627,R638		2.547039	13	27342571.921361
105A701069	Resistor	R499		2.547039	1	282340674.079668

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A702229	Resistor	R134,R143,R144, R145,R157,R164, R165,R17,R246,R287, R319,R324,R380, R381,R484,R485, R486,R487,R488, R489,R490,R508, R565,R81,R91,R92		2.547039	26	14061076.827148
105A702263	Resistor	R373,R449,R483		2.547039	3	107020754.986850
105A703329	Resistor	R102,R549		2.547039	2	154078778.388085
105A703363	Resistor	R236		2.547039	1	282340674.079668
105A703909	Resistor	R382,R383		2.547039	2	154078778.388085
105A704729	Resistor	R16,R178,R195,R203, R247,R282,R288, R299,R300,R312,R33, R357,R394,R397, R414,R421,R442, R448,R5,R50,R503, R520,R523,R566, R589,R593,R594, R600,R605,R611, R631,R9,R97		2.547039	33	11164784.962504
105A704739	Resistor	R72		2.547039	1	282340674.079668
105A704763	Resistor	R115,R439		2.547039	2	154078778.388085

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A705139	Resistor	R121,R28,R401,R402,R403,R464,R465,R466,R479,R482,R49,R504,R505,R511,R512,R517,R518,R519,R522,R569		2.547039	20	18104712.511396
105A706829	Resistor	R245,R248,R252,R281,R285,R531,R601,R606,R612		2.547039	9	38754445.632391
105A708229	Resistor	R106,R117,R177,R179,R327,R429,R430,R431,R432,R433,R434,R435,R440,R458,R467,R52,R55,R56,R57,R58,R59,R60,R61,R62,R63,R64,R65,R66,R67,R68		2.547039	30	12244464.256771
105A722009	Resistor	R350,R351,R366,R367		2.547039	4	82309758.689546
105A733009	Resistor	R1,R198,R2,R298,R3,R4		2.547039	6	56573956.677649
105A739039	Resistor	R40		2.547039	1	282340674.079668
105A747039	Resistor	R492		2.547039	1	282340674.079668
106B501032	Resistor	RT2,RT3,RT4,RT5		2.547039	4	82309758.689546

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1121501691	Capacitor	C101,C102,C104, C105,C106,C108,C11, C111,C112,C115, C119,C120,C121, C122,C123,C124, C125,C126,C127, C128,C129,C130, C131,C132,C133, C134,C135,C136, C139,C143,C144, C148,C149,C15,C150, C151,C152,C153, C154,C155,C156, C158,C160,C161, C162,C164,C165, C173,C1		1.128806	209	4166691.112153
1122522890	Capacitor	C191,C410,C411, C427		1.128806	4	196873384.410843
1122701680	Capacitor	C10		1.128806	1	704977644.692287
1124410191	Capacitor	C113,C225,C472, C473,C482,C483, C484		1.128806	7	115633865.771428
1124418090	Capacitor	C92,C97		1.128806	2	375289731.076049
1124427091	Capacitor	C167,C168,C190, C192,C193,C194, C387,C40,C42,C463, C464		1.128806	11	74892583.279796
1124468090	Capacitor	C16,C39		1.128806	2	375289731.076049
1124510280	Capacitor	C247,C269		1.128806	2	375289731.076049

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1124547190	Capacitor	C171,C172,C174, C201,C202,C203, C204,C205,C206, C274,C321,C448, C458		1.128806	13	63728475.410842
1129522790	Capacitor	C218,C221,C222		1.128806	3	257514172.353070
1129610080	Capacitor	C157,C219,C249, C261,C279,C281, C293,C295,C300, C333,C336,C352, C356,C366,C375, C376,C397,C399, C400,C434,C443,C45, C457,C460,C481,C54, C67,C68,C76,C78, C83,C88,C90		1.128806	33	25726061.200507
1129622690	Capacitor	C103,C17,C353,C43, C44,C77,C80,C81, C84		1.128806	9	90863428.080946
1129701791	Capacitor	C110,C114,C163, C184,C185,C198, C200,C232,C238, C239,C241,C242,C52, C58,C59,C60,C61		1.128806	17	49133303.073811
1129710091	Capacitor	C276,C277,C445, C465,C466,C467		1.128806	6	133979725.056342
1129710391	Capacitor	C159,C182,C209, C453,C474		1.128806	5	159367490.199266

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1174522180	Capacitor	CP1,CP10,CP11,CP12,CP13,CP2,CP3,CP4,CP5,CP6,CP7,CP8,CP9		1.128806	13	63728475.410842
1181627191	Capacitor	EC1		4.744484	1	159663026.715137
1182622080	Capacitor	TC13		4.744484	1	159663026.715137
1189615151	Capacitor	TC12,TC15,TC18,TC19,TC7		4.744484	5	36944177.000623
1189627150	Capacitor	TC10,TC14,TC16,TC9		4.744484	4	45505862.704531
1189633193	Capacitor	TC1,TC11,TC3,TC6,TC8		4.744484	5	36944177.000623
118C6331C1	Capacitor	TC17,TC2,TC4,TC5		4.744484	4	45505862.704531
11C1501030	Capacitor	C369		1.128806	1	704977644.692287
11C1547890	Capacitor	C175,C183		1.128806	2	375289731.076049
11C2501050	Capacitor	C4		1.128806	1	704977644.692287
11C2501790	Capacitor	C137,C98		1.128806	2	375289731.076049
11C2510480	Capacitor	C12,C22,C244,C248,C256,C262		1.128806	6	133979725.056342
11C2539290	Capacitor	C117		1.128806	1	704977644.692287
11C4401880	Capacitor	C3		1.128806	1	704977644.692287
11C4522190	Capacitor	C166,C18,C49		1.128806	3	257514172.353070
11C4547290	Capacitor	C100,C142		1.128806	2	375289731.076049
11C4547760	Capacitor	C231		1.128806	1	704977644.692287
11C9501050	Capacitor	C257		1.128806	1	704977644.692287
11E1522680	Capacitor	C252,C32		1.128806	2	375289731.076049
11E2501690	Capacitor	C13,C14,C19,C34		1.128806	4	196873384.410843
11E2510010	Capacitor	C177,C226,C235,C27,C9		1.128806	5	159367490.199266
11E2522060	Capacitor	C270,C6		1.128806	2	375289731.076049
11E9547630	Capacitor	C107		1.128806	1	704977644.692287
11E9622050	Capacitor	C315,C319,C322,C325,C346,C401,C403,C416,C420,C468,C94		1.128806	11	74892583.279796
11E9647680	Capacitor	C307,C318,C358,C405,C406		1.128806	5	159367490.199266

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9722090	Capacitor	C424,C438,C469,C470,C471		1.128806	5	159367490.199266
11EB510010	Capacitor	C146,C147,C169,C170,C2,C23,C237,C243,C361,C362,C364,C368,C407,C419,C447,C452,C454,C475,C57,C70		1.128806	20	41950408.034165
11EB510640	Capacitor	C1,C109,C116,C118,C138,C140,C141,C188,C189,C197,C20,C211,C212,C213,C214,C215,C216,C217,C234,C246,C254,C258,C259,C265,C266,C267,C271,C272,C278,C280,C282,C29,C305,C308,C309,C311,C312,C320,C323,C326,C327,C328,C331,C335,C338,C340,C341,C342,C343		1.128806	63	13632557.733278
11EB522640	Capacitor	C299		1.128806	1	704977644.692287
1211100113	Inductor	L10,L12,L8		4.944252	3	57363284.375370
1211100160	Inductor	L14		4.944252	1	154760964.143460
121110106M	Inductor	L7		4.944252	1	154760964.143460
121110156K	Inductor	L1,L3,L4,L5		4.944252	4	43912872.424775
121110226K	Inductor	L6		4.944252	1	154760964.143460
121110336Y	Inductor	L2		4.944252	1	154760964.143460



**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
121110476Q	Inductor	L15,L16		4.944252	2	83201062.149749
1212306030	Inductor	FB1,FB10,FB12,FB13,FB14,FB15,FB16,FB17,FB18,FB19,FB2,FB20,FB21,FB22,FB23,FB29,FB3,FB30,FB4,FB6,FB9		4.944252	21	9043621.568822
1212306031	Inductor	FB5		4.944252	1	154760964.143460
1212306035	Inductor	FB11,FB25,FB26,FB27,FB28,FB31,FB32,FB33,FB34,FB35,FB37,FB38,FB39,FB7,FB8		4.944252	15	12521115.446963
1212308054	Inductor	FB24,FB36		4.944252	2	83201062.149749
1214309008	Inductor	CH1,CH2,CH3,CH4,CH5,CH6		4.944252	6	30055900.223009
1214309009	Inductor	CH10,CH7,CH8,CH9		4.944252	4	43912872.424775
123131435J	Miscellaneous	Y1		19.200000	1	23844262.770939
123132505D	Miscellaneous	Y4,Y5		19.200000	2	8854051.752197
1231327053	Miscellaneous	Y3		19.200000	1	23844262.770939
1231332721	Miscellaneous	Y2		19.200000	1	23844262.770939
1301005441	Semiconductor	D41		7.793411	1	92807310.010983
1301005442	Semiconductor	D18,D28,D8		7.793411	3	35106858.962001
1301005443	Semiconductor	D48		7.793411	1	92807310.010983
1301005444	Semiconductor	D1,D16,D4,D5,D6		7.793411	5	21965031.404253
1301053040	Semiconductor	D14		7.793411	1	92807310.010983
1304001340	Optical Device	D3		79.003355	1	6497172.749112
1304101340	Optical Device	D2		79.003355	1	6497172.749112
1304300140	Optical Device	D10,D7		79.003355	2	3783722.582110

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1305080040	Semiconductor	D13,D17,D19 ,D29, D30,D31,D32 ,D33, D34,D37,D38 ,D39, D40,D42,D43 ,D44, D45,D47,D49 ,D50, D51,D52,D53 ,D54, D55		7.793411	25	4779446.658560
1305099140	Semiconductor	D35,D36		7.793411	2	50578095.223398
1310390413	Semiconductor	Q17,Q18,Q1 9,Q20, Q34,Q36,Q3 8,Q46		22.463360	8	4877097.849338
1311071710	Semiconductor	Q2		22.463360	1	31642600.748419
1311390612	Semiconductor	Q16,Q21,Q4 3		22.463360	3	12043329.789539
1315000530	Semiconductor	Q49		22.463360	1	31642600.748419
1315013810	Semiconductor	Q24,Q26		22.463360	2	17315095.066101
1315015530	Semiconductor	U61,U62,U65		22.463360	3	12043329.789539
1315030110	Semiconductor	Q3,Q7		22.463360	2	17315095.066101
1315230410	Semiconductor	Q13		22.463360	1	31642600.748419
1315422410	Semiconductor	U28,U55,U60		22.463360	3	12043329.789539
1315482110	Semiconductor	U36,U8,U9		22.463360	3	12043329.789539
1315482410	Semiconductor	U39		22.463360	1	31642600.748419
1315667910	Semiconductor	U19,U3,U43, U47,U48		22.463360	5	7551839.591592
1315700212	Semiconductor	Q27,Q28,Q2 9		22.463360	3	12043329.789539
1315700216	Semiconductor	Q1,Q10,Q11, Q14,Q15, Q22,Q23,Q2 5,Q30, Q31,Q32,Q3 3,Q35, Q37,Q39,Q4, Q40,Q41, Q42,Q44,Q4 8,Q5,Q6, Q8		22.463360	24	1717346.784324
1315762010	Semiconductor	Q12,Q9		22.463360	2	17315095.066101
1430686102	Integrated Circuit	U15,U5,U64		43.803003	3	4923240.069161
143ALC8920	Integrated Circuit	U42		43.803003	1	11739202.588727
1440D25500	Integrated Circuit	U17		21.706765	1	23689035.791249
1462A183A0	Integrated Circuit	U16		11.063278	1	58231413.220643
14S2200900	Integrated Circuit	U41		43.803003	1	11739202.588727
14S2321900	Integrated Circuit	U10		43.803003	1	11739202.588727
14S2362400	Integrated Circuit	U20		43.803003	1	11739202.588727

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S2591200	Integrated Circuit	U57		43.803003	1	11739202.588727
14S3050100	Integrated Circuit	U13		43.803003	1	11739202.588727
14S3111600	Integrated Circuit	U40		43.803003	1	11739202.588727
14S3112400	Integrated Circuit	U22		43.803003	1	11739202.588727
14S3524700	Integrated Circuit	U35		43.803003	1	11739202.588727
14S3816700	Integrated Circuit	U4		43.803003	1	11739202.588727
14S4001000	Integrated Circuit	U7		43.803003	1	11739202.588727
14S4021301	Integrated Circuit	U14,U18,U23,U71		43.803003	4	3879156.910661
14S4048503	Integrated Circuit	U58,U63		43.803003	2	6834791.244197
14S4081110	Integrated Circuit	U49		43.803003	1	11739202.588727
14S4519500	Integrated Circuit	U51		43.803003	1	11739202.588727
14S4600004	Integrated Circuit	U30		43.803003	1	11739202.588727
14S4811102	Integrated Circuit	U32,U33		43.803003	2	6834791.244197
14S4878300	Integrated Circuit	U21		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U52		26.018600	1	25551442.237972
14S5920400	Integrated Circuit	U67,U70		26.018600	2	14194252.866846
14S5A00601	Integrated Circuit	U24		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U1,U34,U46,U50,U6		26.018600	5	6292206.574138
14S5A12503	Integrated Circuit	U27		26.018600	1	25551442.237972
14S5A12506	Integrated Circuit	U26		26.018600	1	25551442.237972
14S5A73200	Integrated Circuit	U12		26.018600	1	25551442.237972
14S6203205	Integrated Circuit			43.803003	1	11739202.588727
14S6366B00	Integrated Circuit	U68,U69		43.803003	2	6834791.244197
14S9341101	Integrated Circuit	U31		43.803003	1	11739202.588727
14S9811500	Integrated Circuit	U53		43.803003	1	11739202.588727
1540710280	Resistor	RP1,RP2		9.971436	2	30043399.401299
1540733085	Resistor	RP4,RP5,RP6		9.971436	3	21639329.074793
1541182280	Resistor	RP3		9.971436	1	51606907.671214
16515A2990	Connection	DIMM1		16.184835	1	35685591.360212
165251420B	Connection	CN28,CN29		16.184835	2	20390152.380746
1652602105	Connection	CN6		16.184835	1	35685591.360212
1653002101	Connection	JP4		16.184835	1	35685591.360212
1653003101	Connection	JP1,JP10,JP11,JP2,JP5,JP9		16.184835	6	7958792.615968
1653003201	Connection	JP3		16.184835	1	35685591.360212
1653005201	Connection	CN1		16.184835	1	35685591.360212
1653212100	Connection	CN17		16.184835	1	35685591.360212
1653300102	Connection	JP1(2-3),JP10(2-3)		16.184835	2	20390152.380746
1653300107	Connection	JP11(2-3),JP3(3-4),JP9(1-2)		16.184835	3	14515880.849373
1653300108	Connection	JP2(1-2)		16.184835	1	35685591.360212
165390003B	Connection	CFD1B		16.184835	1	35685591.360212

**File Name:** AHP-1083HTT.rfp  
**Assembly:** 9697CV050X-S  
**Ref Des:**  
**Description:**

**Failure Rate:** 7771.785425  
**MTBF (hrs):** 128,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1653924110	Connection	CFD1A		16.184835	1	35685591.360212
1654030003	Connection	CN27		16.184835	1	35685591.360212
1654226303	Connection	PCIE1A		16.184835	1	35685591.360212
1654409103	Connection	CN33		16.184835	1	35685591.360212
1654415308	Connection	CN32		16.184835	1	35685591.360212
1654808309	Connection	CN30		16.184835	1	35685591.360212
1654903902	Connection	CN34		16.184835	1	35685591.360212
1654907004	Connection	CN5		16.184835	1	35685591.360212
1654926900	Connection	PCIE1B		16.184835	1	35685591.360212
1655003010	Connection	CN3		16.184835	1	35685591.360212
1655003022	Connection	CN2		16.184835	1	35685591.360212
1655302020	Connection	CN9		16.184835	1	35685591.360212
1655305020	Connection	CN26		16.184835	1	35685591.360212
1655306020	Connection	CN4		16.184835	1	35685591.360212
1655306023	Connection	CN23		16.184835	1	35685591.360212
1655902030	Connection	BAT1A		16.184835	1	35685591.360212
1655905032	Connection	CN10,CN12,C N14, CN15		16.184835	4	11344857.509064
1655909031	Connection	CN16,CN18,C N19		16.184835	3	14515880.849373
1655909032	Connection	CN20		16.184835	1	35685591.360212
1655910032	Connection	CN31		16.184835	1	35685591.360212
175011301H	Miscellaneous	BAT1B		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS2		2.400000	1	254626042.602335
1752001603	Miscellaneous	FS1,FS3		2.400000	2	143944727.196625
175910000B	Connection	SP1		16.184835	1	35685591.360212
2057QM6701	Integrated Circuit	U68,U69		11.063278	2	32567094.099626