

PICO-APL1

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 5641.222369 ppm MTBF: 177,267 Hours
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Issue date	Approval	Test Engineer
2017/06/26	KJ Wang	Danny Chen

Reliability Prediction (MTBF)

I . Model Name: PICO-APL1

II . Prediction Date: Jun.26, 2017

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:

PICO-APL1 (9697APL104-D):

- Failure Rate: 5641.222369 ppm

- MTBF: 177,267 Hours

**AAEON Reliability Prediction
Summary**

File Name: PICO-APL1.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 5641.222369
MTBF (hrs): 177,267
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
PICO-APL1	9697APL104-D		1	5641.222369	177,267

File Name: PICO-APL1.rfp
Assembly: 9697APL104-D
Ref Des:
Description:

Failure Rate: 5641.222369
MTBF (hrs): 177,267
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501054	Resistor	R353		2.547039	1	282340674.079668
1050502004	Resistor	R159,R164		2.547039	2	154078778.388085
1050502234	Resistor	R473		2.547039	1	282340674.079668
1050504764	Resistor	R356		2.547039	1	282340674.079668
1050505124	Resistor	R19,R278		2.547039	2	154078778.388085
1050510034	Resistor	R277,R295,R379		2.547039	3	107020754.986850
1050510504	Resistor	R115,R119		2.547039	2	154078778.388085
1050511304	Resistor	R147		2.547039	1	282340674.079668
1050512104	Resistor	R92		2.547039	1	282340674.079668
1050513724	Resistor	R243		2.547039	1	282340674.079668
1050520004	Resistor	R144,R156,R206		2.547039	3	107020754.986850
1050520034	Resistor	R224,R253,R497, R500		2.547039	4	82309758.689546
1050522004	Resistor	R209		2.547039	1	282340674.079668
1050536514	Resistor	R263,R264,R3,R5		2.547039	4	82309758.689546
1050540204	Resistor	R151,R152,R189		2.547039	3	107020754.986850
1050547034	Resistor	R240		2.547039	1	282340674.079668
1050549904	Resistor	R365		2.547039	1	282340674.079668
1050582514	Resistor	R299,R312		2.547039	2	154078778.388085
1050700002	Resistor	R331		2.547039	1	282340674.079668
1050756004	Resistor	R40,R44,R48,R62,R76,R82		2.547039	6	56573956.677649
1053500282	Resistor	FB10,FB3,FB9		2.547039	3	107020754.986850
105A500173	Resistor	R110,R114,R177,R190,R95,R98		2.547039	6	56573956.677649
105A501003	Resistor	R289		2.547039	1	282340674.079668
105A501039	Resistor	R254		2.547039	1	282340674.079668
105A501043	Resistor	R252		2.547039	1	282340674.079668
105A502039	Resistor	R261,R372		2.547039	2	154078778.388085
105A502263	Resistor	R161,R280		2.547039	2	154078778.388085
105A503039	Resistor	R474		2.547039	1	282340674.079668
105A503309	Resistor	R269		2.547039	1	282340674.079668
105A505109	Resistor	R226,R428,R429, R431		2.547039	4	82309758.689546
105A506829	Resistor	R112		2.547039	1	282340674.079668
105A510003	Resistor	R446,R447,R458, R459		2.547039	4	82309758.689546
105A510009	Resistor	R124,R137,R2,R309,R462		2.547039	5	67008142.102588

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105A515009	Resistor	R133,R191,R192		2.547039	3	107020754.986850
105A516043	Resistor	R257		2.547039	1	282340674.079668
105A516903	Resistor	R434		2.547039	1	282340674.079668
105A524963	Resistor	R93		2.547039	1	282340674.079668
105A549919	Resistor	R172		2.547039	1	282340674.079668
105A560469	Resistor	R205		2.547039	1	282340674.079668
105A584563	Resistor	R433		2.547039	1	282340674.079668
105A586623	Resistor	R464		2.547039	1	282340674.079668
105A593123	Resistor	R364		2.547039	1	282340674.079668
105A700003	Resistor	R109,R127,R138, R145,R259,R318, R388,R439,R442, R450,R68,R73,R80, R94		2.547039	14	25477245.255648
105A700009	Resistor	R100,R101,R107,R11, R111,R122,R123, R134,R135,R136,R15, R150,R160,R162, R173,R174,R18,R239, R241,R248,R249, R255,R258,R265, R290,R291,R294, R297,R298,R303, R304,R305,R306, R307,R308,R313, R317,R320,R322, R324,R325,R328, R329,R332,R336, R338,R343,R346, R34		2.547039	67	5601929.449697

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105A700139	Resistor	R108,R13,R149,R155,R212,R221,R233,R236,R24,R25,R273,R33,R35,R410,R51, R54		2.547039	16	22425139.809646
105A701039	Resistor	R103,R104,R105,R106,R130,R131,R132,R14,R140,R143,R157,R158,R16,R163,R168,R175,R178,R181,R184,R185,R186,R187,R196,R207,R210,R214,R219,R220,R222,R231,R251,R267,R270,R271,R279,R281,R285,R288,R292,R296,R301,R31,R32,R34,R357,R367,R373,R376,R381,		2.547039	89	4241898.161265
105A701059	Resistor	R27,R28		2.547039	2	154078778.388085
105A701069	Resistor	R154		2.547039	1	282340674.079668
105A702039	Resistor	R7,R8		2.547039	2	154078778.388085
105A702229	Resistor	R180,R216,R244,R246,R284,R287,R416,R417,R418,R436,R444,R448,R501,R502,R777, R783		2.547039	16	22425139.809646

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105A703309	Resistor	R29,R30,R36 ,R37, R38,R77,R78 ,R81, R86		2.547039	9	38754445.632391
105A703329	Resistor	R116,R117,R 118		2.547039	3	107020754.986850
105A704729	Resistor	R166,R170,R 194,R20, R21,R22,R23 ,R242, R276,R293,R 315, R316,R339,R 340, R344,R351,R 422, R491,R492,R 55,R65		2.547039	21	17274945.076062
105A705139	Resistor	R50,R60		2.547039	2	154078778.388085
105A706809	Resistor	R200		2.547039	1	282340674.079668
105A710009	Resistor	R235,R430,R 432		2.547039	3	107020754.986850
105A710039	Resistor	R120,R121,R 17,R213, R245,R26,R2 68,R283, R321,R341,R 345, R378,R382,R 396, R403,R408,R 411,R42, R443,R484,R 494,R58, R74		2.547039	23	15826261.230290
105A733009	Resistor	R1,R12,R193 ,R225, R237,R451,R 456		2.547039	7	48991237.965885
105A747039	Resistor	R274		2.547039	1	282340674.079668
105B500009	Resistor	R128,R139		2.547039	2	154078778.388085
105B700139	Resistor	R393,R495,R 496		2.547039	3	107020754.986850

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105B701039	Resistor	R169,R182,R197, R198,R199,R201, R202,R217,R227, R234,R363,R366, R369,R374,R425, R455,R461,R466, R475,R480,R483,R59		2.547039	22	16518584.576317
105B702009	Resistor	R371,R377,R380, R383,R384,R389, R775,R776		2.547039	8	43225424.698300
105B702225	Resistor	R69,R70		2.547039	2	154078778.388085
105B704725	Resistor	R392,R397,R398, R401		2.547039	4	82309758.689546
105B733019	Resistor	R165		2.547039	1	282340674.079668
1121501691	Capacitor	C1,C10,C103,C105, C106,C107,C110, C111,C118,C123, C140,C15,C156,C157, C161,C19,C20,C206, C208,C218,C219, C220,C225,C226,C23, C230,C233,C24,C247, C25,C262,C263,C266, C267,C273,C274, C278,C28,C280,C282, C286,C288,C29,C290, C292,C293,C295,C30, C302,C304,C306		1.128806	115	7527978.979731
1121533480	Capacitor	C386		1.128806	1	704977644.692287

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1124410191	Capacitor	C222,C237,C238,C377,C383		1.128806	5	159367490.199266
1124418090	Capacitor	C158,C171		1.128806	2	375289731.076049
1124427091	Capacitor	C184,C197		1.128806	2	375289731.076049
1124522290	Capacitor	C397		1.128806	1	704977644.692287
1124533190	Capacitor	C392		1.128806	1	704977644.692287
1124533280	Capacitor	C285,C289		1.128806	2	375289731.076049
1124547290	Capacitor	C183,C281		1.128806	2	375289731.076049
1129601080	Capacitor	C26,C334		1.128806	2	375289731.076049
1129701791	Capacitor	C283,C300,C308,C309,C314,C352,C356,C387,C78		1.128806	9	90863428.080946
1129710091	Capacitor	C18,C215,C217,C44		1.128806	4	196873384.410843
1129710391	Capacitor	C27		1.128806	1	704977644.692287
1189615154	Capacitor	TC1,TC5,TC6		4.744484	3	59399119.141203
1189633151	Capacitor	TC2		4.744484	1	159663026.715137
118C6331B0	Capacitor	TC3,TC4		4.744484	2	86049450.747498
11C1539840	Capacitor	C162		4.744484	1	159663026.715137
11C2522480	Capacitor	C323,C327		1.128806	2	375289731.076049
11C4510240	Capacitor	C299		1.128806	1	704977644.692287
11C4510480	Capacitor	C137,C62,C67		1.128806	3	257514172.353070
11C4522191	Capacitor	C325		1.128806	1	704977644.692287
11C4547190	Capacitor	C384,C385,C391		1.128806	3	257514172.353070
11C9510490	Capacitor	C336		1.128806	1	704977644.692287
11E1510050	Capacitor	C368		1.128806	1	704977644.692287
11E2501080	Capacitor	C80		1.128806	1	704977644.692287
11E2501690	Capacitor	C345,C355,C388,C5		1.128806	4	196873384.410843
11E2510010	Capacitor	C2		1.128806	1	704977644.692287
11E2622011	Capacitor	C149,C163,C178,C204,C227,C229,C284,C287,C291,C331,C335,C347,C380,C51		1.128806	14	59316298.011235
11E3510011	Capacitor	C354,C393,C394		1.128806	3	257514172.353070

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E4510440	Capacitor	C223,C332,C378, C379,C49,C53		1.128806	6	133979725.056342
11E9510490	Capacitor	C11,C113,C119,C12, C127,C129,C13,C138, C14,C201,C202,C207, C211,C239,C240, C241,C244,C246, C250,C257,C259, C265,C275,C303, C510,C511,C512, C513		1.128806	28	30212160.975569
11E9547630	Capacitor	C316,C317		1.128806	2	375289731.076049
11E9547790	Capacitor	C258		1.128806	1	704977644.692287
11E9610080	Capacitor	C109,C205,C260, C271,C277,C374		1.128806	6	133979725.056342
11E9622052	Capacitor	C3,C351,C79		1.128806	3	257514172.353070

**Reliability Prediction
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11E9622080	Capacitor	C100,C101,C102, C104,C112,C120, C124,C125,C126, C130,C141,C150, C177,C180,C181, C185,C186,C188, C192,C196,C203, C209,C210,C214, C228,C268,C269, C270,C272,C276, C279,C312,C324, C326,C329,C330,C58, C64,C65,C66,C70, C71,C72,C76,C81, C82,C84,C86,C87, C88,C92,		1.128806	53	16160213.088941

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11EA501050	Capacitor	C114,C116,C121, C122,C128,C131, C132,C133,C134, C136,C139,C143, C144,C145,C146, C147,C148,C151, C152,C153,C154, C155,C159,C160, C164,C165,C167, C168,C169,C170, C175,C176,C182, C187,C191,C193, C198,C199,C212, C213,C251,C252, C253,C254,C90,C94		1.128806	46	18574133.926778
11EA510390	Capacitor	C172,C173,C194, C195		1.128806	4	196873384.410843
11EA510450	Capacitor	C395,C396		1.128806	2	375289731.076049
11EA610040	Capacitor	C242,C243,C249, C255,C256,C264		1.128806	6	133979725.056342
11EA610120	Capacitor	C294,C296,C39,C40		1.128806	4	196873384.410843
11EA647010	Capacitor	C189,C190,C200		1.128806	3	257514172.353070
11EA647640	Capacitor	C305,C75		1.128806	2	375289731.076049
11EB501040	Capacitor	C117,C142,C16, C166, C174,C179,C21, C231, C232,C245,C248, C366,C367,C390, C6, C7,C77,C8,C85, C9, C96		1.128806	21	40003791.624280

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11EB510450	Capacitor	C369,C370		1.128806	2	375289731.076049
11EB510640	Capacitor	C400		1.128806	1	704977644.692287
11EB522640	Capacitor	C261,C307,C322		1.128806	3	257514172.353070
11EB610041	Capacitor	C398		1.128806	1	704977644.692287
11EB610050	Capacitor	C17,C22,C234,C235,C236,C311,C318,C32,C321,C38,C381,C98		1.128806	12	68856937.301178
11EB622030	Capacitor	C401,C402		1.128806	2	375289731.076049
11EB647020	Capacitor	C216,C375,C376		1.128806	3	257514172.353070
121110156K	Inductor	L6		4.944252	1	154760964.143460
121110226Y	Inductor	L5		4.944252	1	154760964.143460
1211102272	Inductor	L8		4.944252	1	154760964.143460
1211104777	Inductor	L2,L3,L4		4.944252	3	57363284.375370
1211104779	Inductor	L1,L7		4.944252	2	83201062.149749
1212306030	Inductor	FB1,FB11,FB2,FB4,FB7,FB8		4.944252	6	30055900.223009
1212308054	Inductor	FB12		4.944252	1	154760964.143460
12123D0001	Inductor	FB5,FB6		4.944252	2	83201062.149749
1214109000	Inductor	CH11,CH3,CH4		4.944252	3	57363284.375370
1214109004	Inductor	CH1,CH10,CH2,CH5,CH6,CH7,CH8,CH9		4.944252	8	22874049.098230
12310025A3	Miscellaneous	Y3		19.200000	1	23844262.770939
12310192A0	Miscellaneous	Y4		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
12330024A1	Miscellaneous	Y1		19.200000	1	23844262.770939
1301005444	Semiconductor	D16,D3,D4		7.793411	3	35106858.962001
1301400541	Semiconductor	D2		7.793411	1	92807310.010983
1301400642	Semiconductor	D1		7.793411	1	92807310.010983
1304001340	Optical Device	LED1		79.003355	1	6497172.749112
1304101340	Optical Device	LED2		79.003355	1	6497172.749112
1304300140	Optical Device	LED3		79.003355	1	6497172.749112
1305040241	Semiconductor	U35,U36		7.793411	2	50578095.223398
1305080040	Semiconductor	D7,D8		7.793411	2	50578095.223398
1305Z40120	Semiconductor	D17		7.793411	1	92807310.010983
1310390413	Semiconductor	Q13,Q19,Q3		22.463360	3	12043329.789539
1311390610	Semiconductor	Q15,Q16		22.463360	2	17315095.066101
1315013810	Semiconductor	Q14		22.463360	1	31642600.748419
1315036600	Semiconductor	Q8		22.463360	1	31642600.748419
1315200312	Semiconductor	Q25		22.463360	1	31642600.748419

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1315230511	Semiconductor	Q1		22.463360	1	31642600.748419
1315443512	Semiconductor	Q26,Q27		22.463360	2	17315095.066101
1315700216	Semiconductor	Q10,Q11,Q18,Q20,Q21,Q24,Q28,Q41,Q42,Q6,Q7		22.463360	11	3618924.681337
1315720010	Semiconductor	Q5		22.463360	1	31642600.748419
1315762010	Semiconductor	Q17		22.463360	1	31642600.748419
1315EM6K10	Semiconductor	Q12,Q2,Q22,Q23,Q29,Q30,Q31,Q32,Q33,Q34,Q35,Q36,Q38,Q4,Q40,Q9		22.463360	16	2533798.883137
1430006710	Integrated Circuit	U26		43.803003	1	11739202.588727
1430087620	Integrated Circuit	U13		43.803003	1	11739202.588727
1430097420	Integrated Circuit	U33,U34		43.803003	2	6834791.244197
143117ADJ0	Integrated Circuit	U23		43.803003	1	11739202.588727
1436509420	Integrated Circuit	U8		43.803003	1	11739202.588727
143ALC8920	Integrated Circuit	U15		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U20		43.803003	1	11739202.588727
1440033660	Integrated Circuit	U32		43.803003	1	11739202.588727
1440210IT0	Integrated Circuit	U10		43.803003	1	11739202.588727
1440N42000	Integrated Circuit	U25		21.706765	1	23689035.791249
1462001280	Integrated Circuit	U4		43.803003	1	11739202.588727
1490034600	Integrated Circuit	U3		43.803003	1	11739202.588727
149F759130	Integrated Circuit	U50,U51		43.803003	2	6834791.244197
149TB01040	Integrated Circuit	U6		43.803003	1	11739202.588727
149TS01040	Integrated Circuit	U21		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U11,U12,U29,U30,U31,U37,U38		43.803003	7	2408529.736257
14S3524700	Integrated Circuit	U22		43.803003	1	11739202.588727
14S3E00100	Integrated Circuit	U1		43.803003	1	11739202.588727
14S4180100	Integrated Circuit	U5		43.803003	1	11739202.588727
14S4751100	Integrated Circuit	U27		43.803003	1	11739202.588727
14S4814380	Integrated Circuit	U24		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U17		26.018600	1	25551442.237972
14S5A00821	Integrated Circuit	U16,U19,U2,U7,U9		26.018600	5	6292206.574138
14S5A30601	Integrated Circuit	U14,U39,U40		26.018600	3	9949526.289768
14S9811500	Integrated Circuit	U18		43.803003	1	11739202.588727
1540710280	Resistor	RP1		9.971436	1	51606907.671214
16515A2991	Connection	CN15		16.184835	1	35685591.360212
165251420B	Connection	CN10		16.184835	1	35685591.360212
1652602105	Connection	CN14		16.184835	1	35685591.360212

File Name: PICO-APL1.rfp
Assembly: 9697APL104-D
Ref Des:
Description:

Failure Rate: 5641.222369
MTBF (hrs): 177,267
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
165300310G	Connection	JP3		16.184835	1	35685591.360212
165300320L	Connection	CN1,JP1,JP2		16.184835	3	14515880.849373
165300520Y	Connection	CN3		16.184835	1	35685591.360212
1653300102	Connection	JP1(2-4),JP3 (1-2)		16.184835	2	20390152.380746
1653300107	Connection	JP2(3-5),JP2 (4-6)		16.184835	2	20390152.380746
1653300108	Connection	JP1(1-3)		16.184835	1	35685591.360212
1653515210	Connection	CN16		16.184835	1	35685591.360212
1654008020	Connection	CN7		16.184835	1	35685591.360212
1654226303	Connection	CN4,CN6		16.184835	2	20390152.380746
1654401932	Connection	CN13		16.184835	1	35685591.360212
1654801832	Connection	CN11		16.184835	1	35685591.360212
1654907009	Connection	CN8		16.184835	1	35685591.360212
1655302025	Connection	CN12		16.184835	1	35685591.360212
1655305130	Connection	CN2		16.184835	1	35685591.360212
1655807030	Connection	CN5		16.184835	1	35685591.360212
1655812130	Connection	CN18		16.184835	1	35685591.360212
1655820100	Connection	CN17		16.184835	1	35685591.360212
1655902034	Connection	CN9		16.184835	1	35685591.360212
1655905037	Connection	CN19		16.184835	1	35685591.360212
175011301C	Miscellaneous	CN9A		306.000000	1	1681683.006787
1752000501	Miscellaneous	FS2		2.400000	1	254626042.602335
1752002500	Miscellaneous	FS1		2.400000	1	254626042.602335