

PICO-APL3

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 5293.255560 MTBF: 188,920 Hours
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Issue date

QE Manager

Test Engineer

2017-09-07

KJ Wang

Louie Lee

Reliability Prediction (MTBF)

I . Model Name: PICO-APL3

II . Prediction Date: September. 7th, 2017

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

IV . Predicted by: Louie Lee

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-APL3 (M/B: 9697APL301-D):

- Failure Rate: 5293.255560
- MTBF: 188,920 Hours

**AAEON Reliability Prediction
Summary**

File Name: PICO-APL3.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 5293.255560
MTBF (hrs): 188,920
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
PICO-APL3	9697APL301-D		1	5293.255560	188,920

File Name: PICO-APL3.rfp
Assembly: 9697APL301-D
Ref Des:
Description:

Failure Rate: 5293.255560
MTBF (hrs): 188,920
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050297624	Resistor	R1585		2.547039	1	282340674.079668
1050500334	Resistor	R1630		2.547039	1	282340674.079668
1050501004	Resistor	R731,R732,R733, R734,R735,R736, R737,R738,R741, R742		2.547039	10	35079934.879747
1050501054	Resistor	R353		2.547039	1	282340674.079668
1050502004	Resistor	R159,R164,R1777, R1814,R1815,R371, R377,R380,R383, R384,R389		2.547039	11	32049696.385471
1050502224	Resistor	R1632		2.547039	1	282340674.079668
1050502234	Resistor	R372,R473		2.547039	2	154078778.388085
1050502734	Resistor	R1685,R1688		2.547039	2	154078778.388085
1050504724	Resistor	R1583		2.547039	1	282340674.079668
1050504764	Resistor	R356		2.547039	1	282340674.079668
1050505134	Resistor	R1594		2.547039	1	282340674.079668
1050510034	Resistor	R1590,R1593,R364, R379		2.547039	4	82309758.689546
1050510504	Resistor	R115,R119		2.547039	2	154078778.388085
1050511304	Resistor	R147		2.547039	1	282340674.079668
1050511824	Resistor	R112		2.547039	1	282340674.079668
1050512734	Resistor	R1591		2.547039	1	282340674.079668
1050518744	Resistor	R312		2.547039	1	282340674.079668
1050520004	Resistor	R144,R156,R206		2.547039	3	107020754.986850
1050520034	Resistor	R224,R253		2.547039	2	154078778.388085
1050522004	Resistor	R209		2.547039	1	282340674.079668
1050524004	Resistor	R721,R722,R723, R724,R725,R728, R729,R730		2.547039	8	43225424.698300
1050524324	Resistor	R299		2.547039	1	282340674.079668
1050524909	Resistor	R1723,R1724		2.547039	2	154078778.388085
1050524934	Resistor	R1584		2.547039	1	282340674.079668
1050530034	Resistor	R382		2.547039	1	282340674.079668
1050530164	Resistor	R1844,R203		2.547039	2	154078778.388085
1050536514	Resistor	R263,R264,R3,R5		2.547039	4	82309758.689546
1050539224	Resistor	R1705		2.547039	1	282340674.079668
1050540204	Resistor	R151,R152,R189		2.547039	3	107020754.986850

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1050547004	Resistor	R1848,R1849 ,R1850, R1851,R1852 ,R1853, R1854,R1855		2.547039	8	43225424.698300
1050547034	Resistor	R240		2.547039	1	282340674.079668
1050549904	Resistor	R365		2.547039	1	282340674.079668
1050551004	Resistor	R1725		2.547039	1	282340674.079668
1053500282	Resistor	R223		2.547039	1	282340674.079668
105A500139	Resistor	R1717		2.547039	1	282340674.079668
105A501039	Resistor	R1628,R1633 ,R1707, R1716,R1747 ,R1749, R1750,R254, R739, R740		2.547039	10	35079934.879747
105A501043	Resistor	R252		2.547039	1	282340674.079668
105A501539	Resistor	R1718		2.547039	1	282340674.079668
105A502039	Resistor	R1704,R1706		2.547039	2	154078778.388085
105A502263	Resistor	R161,R280		2.547039	2	154078778.388085
105A503039	Resistor	R474		2.547039	1	282340674.079668
105A507509	Resistor	R1708,R1711		2.547039	2	154078778.388085
105A508233	Resistor	R464		2.547039	1	282340674.079668
105A510003	Resistor	R446,R447,R 458, R459		2.547039	4	82309758.689546
105A510009	Resistor	R124,R137,R 2,R309, R462		2.547039	5	67008142.102588
105A515009	Resistor	R133,R191,R 192		2.547039	3	107020754.986850
105A516043	Resistor	R257		2.547039	1	282340674.079668
105A516903	Resistor	R434		2.547039	1	282340674.079668
105A524919	Resistor	R1720		2.547039	1	282340674.079668
105A540269	Resistor	R1831,R1832		2.547039	2	154078778.388085
105A560469	Resistor	R205		2.547039	1	282340674.079668
105A584563	Resistor	R433		2.547039	1	282340674.079668

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105A700003	Resistor	R109,R127,R138, R145,R1693, R1694, R1780,R1781 ,R1819, R1820,R1869 ,R20, R316,R318,R339, R340,R344,R351, R388,R442,R450,R55, R68,R73,R80 ,R91, R94		2.547039	27	13557741.157915
105A700009	Resistor	R100,R101,R111, R113,R123,R128, R134,R135,R136, R139,R150,R1576, R1578,R1579 ,R1580, R1599,R1602 ,R1603, R1604,R1605 ,R1626, R1636,R1639 ,R1650, R1712,R1713 ,R1721, R1722,R1731 ,R1732, R1733,R1734 ,R1769, R1770,R1771 ,R1772, R1773,R1774 ,R1787, R1796,R1821 ,R1822, R1634		2.547039	88	4289167.908760
105A70000A	Resistor	R1634		2.547039	1	282340674.079668

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105A700139	Resistor	R13,R155,R1788, R1789,R1790,R1791, R1861,R1862,R212, R221,R233,R236,R33, R35,R393,R51,R54		2.547039	17	21160422.299251
105A701039	Resistor	R1589,R1592,R1631, R1676,R1677,R1678, R1680,R1681,R1697, R1703,R178,R18, R181,R207,R219, R227,R229,R251, R279,R288,R292, R296,R310,R32,R357, R385,R414,R415, R419,R424,R438, R441,R445,R449, R463,R57		2.547039	36	10261285.143207
105A701059	Resistor	R1744,R1801,R1807		2.547039	3	107020754.986850
105A701069	Resistor	R154		2.547039	1	282340674.079668
105A702039	Resistor	R7,R8		2.547039	2	154078778.388085
105A702229	Resistor	R1751,R1752,R244, R246,R416,R417, R418,R436,R69,R70		2.547039	10	35079934.879747
105A703309	Resistor	R1698,R1699,R1700, R1701,R1702,R77, R78,R81		2.547039	8	43225424.698300
105A704729	Resistor	R65		2.547039	1	282340674.079668
105A705139	Resistor	R50,R60		2.547039	2	154078778.388085
105A706809	Resistor	R200		2.547039	1	282340674.079668

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105A710039	Resistor	R120,R1743, R1800, R1806,R213, R321, R341,R345,R 378, R395,R396,R 403, R408,R411		2.547039	14	25477245.255648
105A733009	Resistor	R1726,R193, R225, R237		2.547039	4	82309758.689546
105A747009	Resistor	R1640		2.547039	1	282340674.079668
105B504905	Resistor	R226,R428,R 429, R431		2.547039	4	82309758.689546
105B700009	Resistor	R1714,R1792 ,R1793, R1817,R1840 ,R1846, R185,R188		2.547039	8	43225424.698300
105B700139	Resistor	R149,R1757, R1758, R1759,R1760 ,R1761, R1762,R1763 ,R1764, R1833,R1865 ,R1866, R410		2.547039	13	27342571.921361

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105B701039	Resistor	R131,R132,R1618, R1621,R1646,R1652, R1658,R1661,R1662, R1663,R1664,R1665, R1666,R1669,R1670, R1671,R1672,R1682, R1683,R169,R1786, R1794,R1798,R1799, R1802,R1803,R182, R1845,R1856,R198, R199,R201,R202, R210,R214,R220, R231,R277,R406, R413,R420		2.547039	41	9043562.562696
105B701059	Resistor	R1657,R537		2.547039	2	154078778.388085
105B702225	Resistor	R1709,R1710,R510, R511		2.547039	4	82309758.689546
105B704725	Resistor	R1622,R1623,R1637, R1649,R166,R171, R1782,R1783,R1784, R1785,R1804,R1805, R194,R354,R422		2.547039	15	23852782.943395
105B710009	Resistor	R1648,R235,R430, R432,R532		2.547039	5	67008142.102588
105B710039	Resistor	R121,R1635,R1659, R1660,R17,R1745, R245,R268,R74,R743		2.547039	10	35079934.879747
106B501034	Resistor	RT1,RT2		7.724580	2	38596617.434771

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1121501690	Capacitor	C442,C443,C444, C445,C446,C447, C448,C449,C450, C451		1.128806	10	82101057.548118
1121501691	Capacitor	C103,C110,C123, C161,C230,C262, C266,C267,C273, C275,C288,C292, C304,C313,C328, C339,C340,C341, C342,C343,C344, C346,C348,C349, C350,C353,C355, C370,C371,C372, C382,C388,C389,C41, C436,C438,C440,C47, C48,C49,C53,C540, C549,C55,C553,C554, C59,C69,C73,C757, C386		1.128806	67	12830544.216852
1121533480	Capacitor	C386		1.128806	1	704977644.692287
1124410191	Capacitor	C781,C782,C783, C784,C785,C786		1.128806	6	133979725.056342
1124418090	Capacitor	C158,C171		1.128806	2	375289731.076049
1124533190	Capacitor	C392		1.128806	1	704977644.692287
1124547290	Capacitor	C183,C281		1.128806	2	375289731.076049
1129601080	Capacitor	C231,C26,C334		1.128806	3	257514172.353070
1129701791	Capacitor	C14,C352,C356,C387, C718,C719,C754, C866,C867		1.128806	9	90863428.080946

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1129710091	Capacitor	C18,C215,C217		1.128806	3	257514172.353070
1129710391	Capacitor	C838,C844,C845		1.128806	3	257514172.353070
1129722091	Capacitor	C290,C787		1.128806	2	375289731.076049
1189615154	Capacitor	TC6		4.744484	1	159663026.715137
118C6331B1	Capacitor	TC3,TC4		4.744484	2	86049450.747498
11A4410240	Capacitor	C753		1.128806	1	704977644.692287
11C2522480	Capacitor	C327		1.128806	1	704977644.692287
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
11C9510490	Capacitor	C127,C336		1.128806	2	375289731.076049
11E1522440	Capacitor	C323		1.128806	1	704977644.692287
11E2501080	Capacitor	C80		1.128806	1	704977644.692287
11E2510010	Capacitor	C204,C227,C229,C347,C380,C441		1.128806	6	133979725.056342
11E2610030	Capacitor	C678		1.128806	1	704977644.692287
11E2610032	Capacitor	C354,C393,C394		1.128806	3	257514172.353070
11E2622011	Capacitor	C149,C163,C178,C284,C287,C291,C331,C335,C51		1.128806	9	90863428.080946
11E4433690	Capacitor	C869		1.128806	1	704977644.692287
11E4510440	Capacitor	C223,C274,C295,C345,C378,C747		1.128806	6	133979725.056342
11E9501090	Capacitor	C384,C439		1.128806	2	375289731.076049

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11E9510490	Capacitor	C113,C119,C129, C138,C201,C202, C207,C211,C357, C358,C359,C360, C361,C362,C363, C364,C651,C652, C677,C738,C739, C850,C868,C870, C871,C872,C873, C874,C875,C876, C877		1.128806	31	27349602.091781
11E9547630	Capacitor	C316,C317		1.128806	2	375289731.076049
11E9610080	Capacitor	C715		1.128806	1	704977644.692287
11E9622052	Capacitor	C216,C351,C375, C376		1.128806	4	196873384.410843

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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, C268,C269,C270, C272,C276,C279, C312,C324,C329, C330,C58,C64,C65, C66,C70,C71,C72, C76,C81,C82,C84, C86,C87,C88,C92, C97,C99		1.128806	51	16783130.571525
11E9647690	Capacitor	C435,C437		1.128806	2	375289731.076049

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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,C807,C808, C809,C810,C811, C812,C813,C814,		1.128806	67	12830544.216852
11EA510390	Capacitor	C172,C173,C194, C195,C730		1.128806	5	159367490.199266
11EA510450	Capacitor	C239,C240,C241, C242,C243,C244, C418,C419,C420, C422,C425,C428, C720,C721,C722, C723,C724,C744, C748,C749,C751, C752		1.128806	22	38230892.707156

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11EA610040	Capacitor	C302,C423,C426, C429,C717,C755, C756,C761,C806, C831,C832,C833, C834,C835,C836, C839,C840		1.128806	17	49133303.073811
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,C777, C778, C853,C854		1.128806	6	133979725.056342
11EB501040	Capacitor	C142,C16,C166, C174, C179,C390,C6, C7, C762,C85,C857, C96		1.128806	12	68856937.301178
11EB510640	Capacitor	C278		1.128806	1	704977644.692287
11EB522640	Capacitor	C307,C322,C763, C764,C779,C780		1.128806	6	133979725.056342
11EB610040	Capacitor	C311,C318,C321, C381,C421,C424, C427,C675,C765, C767,C769,C771, C772,C773,C774, C776		1.128806	16	52112480.802928
11EB622030	Capacitor	C745,C746,C878, C879		1.128806	4	196873384.410843
121110106Z	Inductor	L6		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
121111007M	Inductor	L5		4.944252	1	154760964.143460
1212306030	Inductor	FB29,FB30,FB31, FB32		4.944252	4	43912872.424775
1212308054	Inductor	FB12		4.944252	1	154760964.143460
12123A000E	Inductor	FB3,FB9		4.944252	2	83201062.149749

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12123C0001	Inductor	FB27,FB28		4.944252	2	83201062.149749
1214109000	Inductor	CH11,CH12,C H3,CH4		4.944252	4	43912872.424775
1214109004	Inductor	CH1,CH10,C H2,CH5, CH6,CH7,CH 8,CH9		4.944252	8	22874049.098230
12310025A5	Miscellaneous	Y3		19.200000	1	23844262.770939
12310192A0	Miscellaneous	Y4		19.200000	1	23844262.770939
1231332726	Miscellaneous	Y2		19.200000	1	23844262.770939
1301400642	Semiconductor	D1		7.793411	1	92807310.010983
1301793040	Semiconductor	D19,D21,D22 ,D23, D24,D25,D9		7.793411	7	16052497.121446
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
130505ESD0	Semiconductor	U22,U28,U57 ,U85, U86,U89		22.463360	6	6378891.324740
1305080040	Semiconductor	U90,U91,U92 ,U93, U94,U95,U96		22.463360	7	5525968.936223
1310390413	Semiconductor	Q3		22.463360	1	31642600.748419
1315013810	Semiconductor	Q14		22.463360	1	31642600.748419
1315036600	Semiconductor	Q8		22.463360	1	31642600.748419
1315200312	Semiconductor	Q25		22.463360	1	31642600.748419
1315230511	Semiconductor	Q13		22.463360	1	31642600.748419
1315443512	Semiconductor	Q26,Q27		22.463360	2	17315095.066101
1315720010	Semiconductor	Q17,Q5		22.463360	2	17315095.066101
1315EM6K10	Semiconductor	Q12,Q2,Q21, Q22,Q29, Q30,Q31,Q3 4,Q58, Q59,Q60,Q6 1,Q62, Q64,Q66,Q6 8,Q69, Q70,Q72,Q7 3,Q74,Q9		22.463360	22	1867312.998876
1430006710	Integrated Circuit	U26		43.803003	1	11739202.588727
1430053250	Integrated Circuit	U81,U82,U83		43.803003	3	4923240.069161
1430087620	Integrated Circuit	U13		43.803003	1	11739202.588727
1430097420	Integrated Circuit	U33,U87		43.803003	2	6834791.244197
1436509420	Integrated Circuit	U8		43.803003	1	11739202.588727
143ALC2690	Integrated Circuit	U78		43.803003	1	11739202.588727
1440002130	Integrated Circuit	U20		43.803003	1	11739202.588727
1440N42000	Integrated Circuit	U25		21.706765	1	23689035.791249
1448111GCO	Integrated Circuit	U80		43.803003	1	11739202.588727

File Name: PICO-APL3.rfp
Assembly: 9697APL301-D
Ref Des:
Description:

Failure Rate: 5293.255560
MTBF (hrs): 188,920
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1462001280	Integrated Circuit	U4		11.063278	1	58231413.220643
1468164601	Integrated Circuit	U34,U35,U36,U37		11.063278	4	17763990.409389
1469KS32G0	Integrated Circuit	U38		11.063278	1	58231413.220643
149TB01040	Integrated Circuit	U6		43.803003	1	11739202.588727
149TS01040	Integrated Circuit	U21		43.803003	1	11739202.588727
14E0085281	Integrated Circuit	U5		43.803003	1	11739202.588727
14S3104500	Integrated Circuit	U29,U30,U31,U88, U97		43.803003	5	3214211.402100
14S5A00821	Integrated Circuit	U16,U7,U9		26.018600	3	9949526.289768
14S5A30601	Integrated Circuit	U14		26.018600	1	25551442.237972
14S6216060	Integrated Circuit	U84		11.063278	1	58231413.220643
1540736081	Resistor	RP15,RP16,RP17,RP18,RP19,RP20, RP21		9.971436	7	10584778.288368
1652602105	Connection	CN14		16.184835	1	35685591.360212
1652814205	Connection	CN10		16.184835	1	35685591.360212
165300420Q	Connection	CN53,CN54		16.184835	2	20390152.380746
1653005264	Connection	CN37		16.184835	1	35685591.360212
1653300120	Connection	CN54(1-2)		16.184835	1	35685591.360212
1653530130	Connection	CN43		16.184835	1	35685591.360212
1654008020	Connection	CN7		16.184835	1	35685591.360212
1654207533	Connection	CN55		16.184835	1	35685591.360212
165420753A	Connection	CN56		16.184835	1	35685591.360212
1654401932	Connection	CN13		16.184835	1	35685591.360212
1654818301	Connection	CN11		16.184835	1	35685591.360212
1654902130	Connection	CN32		16.184835	1	35685591.360212
1654903130	Connection	CN33		16.184835	1	35685591.360212
1654907009	Connection	CN8		16.184835	1	35685591.360212
1655304027	Connection	CN39		16.184835	1	35685591.360212
1655802020	Connection	CN9		16.184835	1	35685591.360212
1655804130	Connection	CN47,CN48		16.184835	2	20390152.380746
1655807030	Connection	CN5		16.184835	1	35685591.360212
1655812130	Connection	CN18		16.184835	1	35685591.360212
1655902034	Connection	CN52		16.184835	1	35685591.360212
1655909035	Connection	CN51		16.184835	1	35685591.360212
1655910032	Connection	CN12		16.184835	1	35685591.360212
175011301C	Miscellaneous	M1		306.000000	1	1681683.006787
1752002500	Miscellaneous	FS3		2.400000	1	254626042.602335