

FWS-7200

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 18.692642 ppm MTBF: 53,497 Hours
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Issue date	Approval	Test Engineer
2012/09/18	Tom Lin	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: FWS-7200E6-H18-A10-00

II . Prediction Date: Sep. 18, 2012

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

IV . Predicted by: Jessica Chou

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 25.0 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 multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

FWS-7200E6-H18-A10-00 (Not include FAN, Power supply):

- Failure Rate: 18.692642ppm
- MTBF: 53,497 (hour)

Below components value were provided by the suppliers:

- (TF)Fan.40x40x20mm.Cable L=300mm.PWM W/4P.NMB.1608VL-04W-B66-B53

Life Expectation (L10 Life): 40,000h at 50°C, the motor life is decided as follows

Current : more than +15% of initial value

Speed : less than -15% of initial value

- (TF)SPS.ATX.100~240V.180W.FSP.FSP180-50LE.9PA1803575

MTBF: The power supply have a minimum predicted MTBF(MIL-HDBK-217) of 100,000 hours of continuous operation at 25°C, maximum-output load, and nominal AC input voltage.

AAEON Reliability Prediction Report

Part Number System
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 18.692642
MTBF 53,497

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
FWS-7200E6-H18-A10-00	System	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	18.69	53496.99
ASS'Y FWB-2200.Rev.A1.0	9697220035-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.66	56621.66
ASS'Y PER-T244.Rev.A1.0	9697T24401-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	1.03	969408.85

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
12G04800008B	Connection	U15	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
165392521H	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.028449	.1611	35151210.83
1214309006	Inductor	CH25,CH26,CH27, CH28	Telcordia Issue 1	Level I		4.00	0.002268	.0514	440974090.03
1174510180	Capacitor	CP1,CP2,CP3,CP4	Telcordia Issue 1	Level I		4.00	0.005466	.1238	182961702.19
1174547080	Capacitor	CP5	Telcordia Issue 1	Level I		1.00	0.005466	.0309	182961702.19
1174518180	Capacitor	CP6,CP7,CP8,CP9	Telcordia Issue 1	Level I		4.00	0.005466	.1238	182961702.19
1124427090	Capacitor	C16,C18,C184,C187, C191,C21,C22,C64, C69,C70,C71,C72, C73,C74,C75	Telcordia Issue 1	Level I		15.00	0.004535	.3852	220487045.01
1189633181	Capacitor	C182,C26	Telcordia Issue 1	Level I		2.00	0.004535	.0514	220487045.01
1129710390	Capacitor	C141,C142,C143, C144,C157,C158, C159,C160,C161, C162,C163,C164, C189,C28,C31,C61, C93,C94	Telcordia Issue 1	Level I		18.00	0.004535	.4622	220487045.01
11C4568190	Capacitor	C29,C33	Telcordia Issue 1	Level I		2.00	0.004535	.0514	220487045.01
11E2501080	Capacitor	C188,C46,C50,C58, C59,C60	Telcordia Issue 1	Level I		6.00	0.004535	.1541	220487045.01
1129622690	Capacitor	C105,C124,C202, C216,C84	Telcordia Issue 1	Level I		5.00	0.004535	.1284	220487045.01
1124582180	Capacitor	C91	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124533280	Capacitor	C92	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124433190	Capacitor	C98	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124522680	Capacitor	C99	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124522190	Capacitor	C103	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124433090	Capacitor	C122,C125,C134, C135	Telcordia Issue 1	Level I		4.00	0.004535	.1027	220487045.01
1124547190	Capacitor	C185	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1124522280	Capacitor	C190,C215,C718	Telcordia Issue 1	Level I		3.00	0.004535	.0770	220487045.01
1122522890	Capacitor	C193,C196,C57,C78	Telcordia Issue 1	Level I		4.00	0.004535	.1027	220487045.01
1121647780	Capacitor	C195,C234	Telcordia Issue 1	Level I		2.00	0.004535	.0514	220487045.01
1189610153	Capacitor	C199,C251	Telcordia Issue 1	Level I		2.00	0.004535	.0514	220487045.01
1121647480	Capacitor	C238	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
1189633162	Capacitor	C757,C758,C760, C761	Telcordia Issue 1	Level I		4.00	0.004535	.1027	220487045.01
1189633184	Capacitor	C759,C766,C767	Telcordia Issue 1	Level I		3.00	0.004535	.0770	220487045.01
16515A2995	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
16515A2993	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1305100541	Semiconductor	D1,D14,D15,D16,D17, D2,D3,D4	Telcordia Issue 1	Level I		8.00	0.023881	1.0817	41874327.58
1301400541	Semiconductor	D13,D31,D5	Telcordia Issue 1	Level I		3.00	0.023881	.4057	41874327.58
1301400642	Semiconductor	D18,D19,D26,D6	Telcordia Issue 1	Level I		4.00	0.023881	.5409	41874327.58

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1305099140	Semiconductor	D8,D9	Telcordia Issue 1	Level I		2.00	0.079603	.9015	12562298.27
1301005444	Semiconductor	D10,D11,D12	Telcordia Issue 1	Level I		3.00	0.023881	.4057	41874327.58
1300414843	Semiconductor	D22,D23,D24,D25, D28,D29	Telcordia Issue 1	Level I		6.00	0.023881	.8113	41874327.58
121230603S	Inductor	FB1,FB13,FB2,FB26, FB27,FB30,FB4,FB44, FB45,FB46,FB49,FB5, FB50,FB52,FB6,FB7, FB8	Telcordia Issue 1	Level I		17.00	0.002268	.2183	440974090.03
12123D0000	Inductor	FB15,FB3	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
12123C000A	Inductor	FB10,FB11,FB12, FB14,FB16,FB17, FB18,FB19,FB20, FB21,FB22,FB23, FB37,FB38,FB39, FB40,FB41,FB42, FB43,FB9	Telcordia Issue 1	Level I		20.00	0.002268	.2568	440974090.03
12123C0003	Inductor	FB25,FB48	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
12123D0001	Inductor	FB28,FB29,FB31	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
121230603C	Inductor	FB32,FB33,FB34, FB35,FB53	Telcordia Issue 1	Level I		5.00	0.002268	.0642	440974090.03
121230603Z	Inductor	FB36	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
1752002700	Miscellaneous	FS1,FS2	Telcordia Issue 1	Level I		2.00	0.003000	.0340	33333333.33
1211106872	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
121110106D	Inductor	L10,L6,L7,L8,L9	Telcordia Issue 1	Level I		5.00	0.002268	.0642	440974090.03
121110106G	Inductor	L18,L25,L64	Telcordia Issue 1	Level I		3.00	0.086173	1.4638	11604581.32
1654262300	Connection	MPC11	Telcordia Issue 1	Level I		1.00	0.070552	.3995	14173875.33
1314111719	Integrated Circuit	Q1	Telcordia Issue 1			1.00	0.059366	.3361	16844654.92
1315700216	Semiconductor	Q17,Q2,Q20,Q21,Q22, Q34,Q35,Q38,Q39,Q4, Q40,Q50,Q51,Q52, Q53,Q56,Q57,Q66, Q67,Q68,Q69,Q7,Q70, Q71,Q72,Q73,Q74, Q77,Q78,Q79,Q8,Q80, Q9	Telcordia Issue 1	Level I		33.00	0.079603	14.8740	12562298.27
1310390413	Semiconductor	Q3,Q45,Q48,Q65	Telcordia Issue 1	Level I		4.00	0.023881	.5409	41874327.58
1311138610	Semiconductor	Q11,Q12,Q13,Q14, Q23,Q25,Q26,Q27, Q28,Q29,Q30,Q31	Telcordia Issue 1	Level I		12.00	0.023881	1.6226	41874327.58
1315870710	Semiconductor	Q47,Q63,Q64,Q84, Q85,Q86,Q87	Telcordia Issue 1	Level I		7.00	0.000000	.0000	.00
1315017210	Semiconductor	Q42	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315016610	Semiconductor	Q44	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1311390612	Semiconductor	Q46	Telcordia Issue 1	Level I		1.00	0.023881	.1352	41874327.58

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A704723	Resistor	R118,R564,R64,R647, R806,R807,R813, R825,R830,R835, R836,R838,R960, R962,R963,R964	Telcordia Issue 1	Level I		16.00	0.002268	.2054	440974090.03
1059710003	Resistor	R67,R812,R823,R828, R829,R841,R843, R979	Telcordia Issue 1	Level I		8.00	0.002268	.1027	440974090.03
1059700001	Resistor	R108,R188,R443,R68	Telcordia Issue 1	Level I		4.00	0.002268	.0514	440974090.03
105A501233	Resistor	R256,R78	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A549913	Resistor	R104,R105,R116, R120,R122,R193, R201,R205,R222, R223,R224,R227, R231,R235,R236, R237,R238,R239, R686	Telcordia Issue 1	Level I		19.00	0.002268	.2440	440974090.03
105A700003	Resistor	R107,R191,R230, R244,R431,R432, R510,R570,R678, R723,R794,R902, R909,R910,R915, R916,R928,R931, R936,R959,R969, R976,R978	Telcordia Issue 1	Level I		23.00	0.002268	.2953	440974090.03
1059710001	Resistor	R131,R814,R817, R818,R819,R820	Telcordia Issue 1	Level I		6.00	0.002268	.0770	440974090.03
105A549969	Resistor	R137,R228,R272	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
105A500239	Resistor	R139,R536,R587	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
105A710039	Resistor	R140,R273,R781	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
105A702229	Resistor	R162,R406,R448, R451,R488,R491, R538,R589,R599, R706,R707,R708, R709,R710,R711, R721,R722,R724, R736,R746	Telcordia Issue 1	Level I		20.00	0.002268	.2568	440974090.03
105A702263	Resistor	R167,R170,R498, R503,R512,R520, R913	Telcordia Issue 1	Level I		7.00	0.002268	.0899	440974090.03
105A507533	Resistor	R168,R171,R917, R922,R933,R937	Telcordia Issue 1	Level I		6.00	0.002268	.0770	440974090.03
105A702209	Resistor	R174,R196,R385, R395,R397,R400, R436,R437,R438, R439,R440,R450, R949,R950	Telcordia Issue 1	Level I		14.00	0.002268	.1798	440974090.03
105A590923	Resistor	R180	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A505633	Resistor	R181,R661	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A701003	Resistor	R192,R198	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A504763	Resistor	R246,R264	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A514014	Resistor	R248	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A711033	Resistor	R274,R279	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A702053	Resistor	R275	Telcordia Issue 1	Level I		1.00	0.013606	.0770	73495681.67
105A704729	Resistor	R294,R299,R342, R356,R369,R396, R423,R523,R952	Telcordia Issue 1	Level I		9.00	0.002268	.1156	440974090.03
105A733009	Resistor	R324,R583,R826	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
105A502003	Resistor	R408,R505	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A500103	Resistor	R441,R469,R550, R700	Telcordia Issue 1	Level I		4.00	0.002268	.0514	440974090.03
1059701001	Resistor	R471	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A575033	Resistor	R474	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A536533	Resistor	R475	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A515033	Resistor	R476	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A580623	Resistor	R477	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
1050513034	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
1050504724	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A554923	Resistor	R481	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A584523	Resistor	R487	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A701009	Resistor	R490,R492,R508, R627,R628,R629, R630,R703,R918, R925,R926	Telcordia Issue 1	Level I		11.00	0.002268	.1412	440974090.03
105A502033	Resistor	R499	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A708229	Resistor	R501,R526,R556, R561,R786,R795, R796,R799,R801	Telcordia Issue 1	Level I		9.00	0.002268	.1156	440974090.03
105A586603	Resistor	R511	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A706809	Resistor	R522	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A505109	Resistor	R527,R529,R530, R532,R542,R754	Telcordia Issue 1	Level I		6.00	0.002268	.0770	440974090.03
105A524963	Resistor	R534,R692,R727	Telcordia Issue 1	Level I		3.00	0.002268	.0385	440974090.03
1050533034	Resistor	R537,R750	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A705609	Resistor	R544,R741	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A502133	Resistor	R562	Telcordia Issue 1	Level I		1.00	0.002268	.0128	440974090.03
105A702033	Resistor	R581,R839	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
105A701053	Resistor	R582,R687	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E1510050	Capacitor	C712,C721,C727, C728,C745,C754,TC1, TC10,TC102,TC103, TC104,TC105,TC106, TC107,TC108,TC109, TC11,TC111,TC112, TC113,TC12,TC13, TC14,TC15,TC16, TC17,TC18,TC19,TC2, TC20,TC21,TC22, TC23,TC24,TC25, TC26,TC27,TC28, TC29,TC3,TC30,T	Telcordia Issue 1	Level I		93.00	0.004535	2.3883	220487045.01
14S3003700	Inductor	T1,T2,T3,T4,T5,T6	Telcordia Issue 1	Level I		6.00	0.136062	4.6224	7349568.17
14S4021301	Integrated Circuit	U2,U3	Telcordia Issue 1	Level I		2.00	0.059366	.6723	16844654.92
1315970211	Semiconductor	U39,U4	Telcordia Issue 1	Level I		2.00	0.159207	1.8029	6281149.14
14S6308002	Integrated Circuit	U13,U17,U5,U6, U9	Telcordia Issue 1	Level I		5.00	0.035882	1.0159	27868824.73
14S6308002	Integrated Circuit	U19	Telcordia Issue 1	Level I	35.40	1.00	0.232235	1.3150	4305978.35
14S4825740	Integrated Circuit	U22,U23,U24,U7, U8	Telcordia Issue 1	Level I		5.00	0.026183	.7413	38193355.79
14S4825740	Integrated Circuit	U21	Telcordia Issue 1	Level I	44.40	1.00	0.253846	1.4373	3939399.69
14S8206407	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
14S4195710	Integrated Circuit	U12,U40	Telcordia Issue 1	Level I		2.00	0.059366	.6723	16844654.92
14S5A00703	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S4362707	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S82032A3	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S3950100	Integrated Circuit	U29	Telcordia Issue 1	Level I	44.10	1.00	0.250474	1.4182	3992424.70
14S2538000	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
14S4280126	Integrated Circuit	U32	Telcordia Issue 1	Level I	20.20	1.00	0.079614	.4508	12560675.08
14S4180010	Integrated Circuit	U33	Telcordia Issue 1	Level I	44.20	1.00	0.251594	1.4246	3974660.96
14S5A00704	Integrated Circuit	U34	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S2200900	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
14S3033800	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
14S5912300	Integrated Circuit	U41	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S5A00821	Integrated Circuit	U44	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
14S3111600	Integrated Circuit	U60	Telcordia Issue 1	Level I		1.00	0.032000	.1812	31250122.20
14S3112400	Integrated Circuit	U63	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
14S5A00702	Integrated Circuit	U64	Telcordia Issue 1	Level I		1.00	0.059366	.3361	16844654.92
123132505G	Miscellaneous	Y1,Y2,Y3,Y4,Y5,Y6	Telcordia Issue 1	Level I		6.00	0.150000	5.0959	6666666.67

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

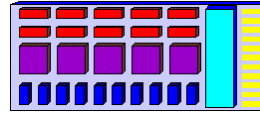


Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9501090	Capacitor	C100,C102,C104, C106,C107,C108, C110,C114,C13,C181, C205,C208,C211, C213,C214,C218, C219,C220,C222, C223,C224,C227, C229,C230,C231, C232,C233,C235, C237,C24,C242,C25, C250,C41,C43,C62, C65,C715,C717,C726, C729,C95,C96,C9	Telcordia Issue 1	Level I		44.00	0.004535	1.1299	220487045.01
11E9647680	Capacitor	C17,C19,C20,C206, C3,C44,C47,C48,C49, C51,C52,C53,C54, C55,C56,C85,C86, C87	Telcordia Issue 1	Level I		18.00	0.004535	.4622	220487045.01
11E1647650	Capacitor	C756	Telcordia Issue 1	Level I		1.00	0.004535	.0257	220487045.01
11C4501790	Capacitor	C111,C112,C113, C115,C116,C117, C120,C121,C4,C5,C6, C7	Telcordia Issue 1	Level I		12.00	0.004535	.3082	220487045.01
11C2510480	Capacitor	BC106,BC121,BC170, BC171,BC18,BC185, BC186,BC19,BC20, BC245,BC246,BC249, BC266,BC267,BC268, BC290,BC291,BC292, BC293,BC294,BC295, BC3,BC308,BC309, BC310,BC311,BC313, BC315,BC316,BC317, BC334,BC336,BC341, BC346,BC348,BC350, BC351,BC352,BC3	Telcordia Issue 1	Level I		53.00	0.004535	1.3611	220487045.01
11E1522680	Capacitor	C1,C136,C137,C138, C186,C217,C221, C228,C236,C243, C245,C246,C248, C252,C253,C35,C37	Telcordia Issue 1	Level I		17.00	0.004535	.4366	220487045.01
11E9622050	Capacitor	C101,C109,C198, C203,C244,C77,C79, C82,C88,C90	Telcordia Issue 1	Level I		10.00	0.004535	.2568	220487045.01
1129601080	Capacitor	C128,C254,C255	Telcordia Issue 1	Level I		3.00	0.004535	.0770	220487045.01

AAEON Reliability Prediction Report

Part Number 9697220035-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 17.661086
MTBF 56,622

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A512009	Resistor	R1007,R1009	Telcordia Issue 1	Level I		2.00	0.002268	.0257	440974090.03
1655424020	Connection	ATX2	Telcordia Issue 1	Level I		1.00	0.013655	.0773	73231689.23
1655004014	Connection	SYSFAN2	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1750220320	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1751300005	Relay	RELAY1,RELAY10, RELAY11,RELAY5, RELAY6,RELAY7, RELAY8,RELAY9	Telcordia Issue 1	Level I		8.00	0.317479	14.3809	3149814.93
14S6203204	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.026183	.1483	38193355.79
1750220323	Connection	BT1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1759100007	Miscellaneous	BUZZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8493	6666666.67
1653002100	Connection	JP7	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1655004011	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.022759	.1289	43939013.54
165300420F	Connection	CN14	Telcordia Issue 1	Level I		1.00	0.004552	.0258	219695067.68
165440910B	Connection	COM1	Telcordia Issue 1	Level I		1.00	0.022759	.1289	43939013.54
165320520E	Connection	COM2	Telcordia Issue 1	Level I		1.00	0.005690	.0322	175756054.14
11031-0001F0MI	Capacitor	C762,C764	Telcordia Issue 1	Level I		2.00	0.005466	.0619	182961702.19
111961029D	Capacitor	C763,C765,EC4	Telcordia Issue 1	Level I		3.00	0.071121	1.2081	14060484.33
1119622196	Capacitor	EC1,EC12	Telcordia Issue 1	Level I		2.00	0.071121	.8054	14060484.33
1112647110	Capacitor	EC2,EC3	Telcordia Issue 1	Level I		2.00	0.071121	.8054	14060484.33
1112610102	Capacitor	EC6	Telcordia Issue 1	Level I		1.00	0.042673	.2416	23434140.55
11031-0004F0MI	Capacitor	EC10	Telcordia Issue 1	Level I		1.00	0.005466	.0309	182961702.19
165300520W	Connection	FP1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
165300520X	Connection	USB2	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
165300310G	Connection	JP3,JP6	Telcordia Issue 1	Level I		2.00	0.022759	.2577	43939013.54
165251220B	Connection	LAN1,LAN2,LAN3, LAN4,LAN5,LAN6	Telcordia Issue 1	Level I		6.00	0.006828	.2320	146463378.45
1653212203	Connection	LCMA1	Telcordia Issue 1	Level I		1.00	0.013655	.0773	73231689.23
1304400500	Semiconductor	PSALED1	Telcordia Issue 1	Level I		1.00	0.004877	.0276	205063180.81
1601110201	Connection	RSW1	Telcordia Issue 1	Level I		1.00	0.022759	.1289	43939013.54
165490700G	Connection	SATA1,SATA2	Telcordia Issue 1	Level I		2.00	0.001138	.0129	878780270.71
1654808309	Connection	USB1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
165320820G	Connection	VGA1	Telcordia Issue 1	Level I		1.00	0.001138	.0064	878780270.71
1812850290	Semiconductor	VR1	Telcordia Issue 1	Level I		1.00	0.079603	.4507	12562298.27

AAEON Reliability Prediction Report

Part Number 9697T24401-D
Reference Des
Date 09. 18, 2012
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description
File Name FWS-7200E6-H18-A10-00.RPJ
Time 13:54
Failure Rate 1.031556
MTBF 969,409

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
11E9622052	Capacitor	C1,C10,C2,C3,C9	Telcordia Issue 1	Level I		5.00	0.004535	2.1983	220487045.01
1121501690	Capacitor	C11,C12,C15,C16, C18,C20,C22,C24, C26,C28,C30,C32, C35,C37,C39,C4,C41, C5,C6,C7	Telcordia Issue 1	Level I		20.00	0.004535	8.7933	220487045.01
11E1510050	Capacitor	C13,C14,C8	Telcordia Issue 1	Level I		3.00	0.004535	1.3190	220487045.01
1129722091	Capacitor	C17,C34	Telcordia Issue 1	Level I		2.00	0.004535	.8793	220487045.01
105A704729	Resistor	R1,R3,R4,R6	Telcordia Issue 1	Level I		4.00	0.002268	.8793	440974090.03
105A700009	Resistor	R2,R5,R7,R8	Telcordia Issue 1	Level I		4.00	0.002268	.8793	440974090.03
1119622196	Capacitor	C19,C21,C27,C33, C36,C38,C40,C42	Telcordia Issue 1	Level I		8.00	0.071121	55.1565	14060484.33
1112610102	Capacitor	C23,C25,C29,C31	Telcordia Issue 1	Level I		4.00	0.042673	16.5469	23434140.55
1654260206	Connection	PCI1,PCI2	Telcordia Issue 1	Level I		2.00	0.068276	13.2376	14646337.85
1654282209	Connection	PCIE1	Telcordia Issue 1	Level I		1.00	0.001138	.1103	878780270.71