

# VPC-5600S

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 11577.686689 MTBF: 86,373 Hours
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Issue date

QE Manager

Test Engineer

2018-01-29

KJ Wang

Max Chang

# Reliability Prediction (MTBF)

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**I . Model Name:** VPC-5600S

**II . Prediction Date:** January. 29th, 2018

**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:**

VPC-5600S (M/B: 9697560010-D & 9697T46502-D):

- Failure Rate: 11577.686689

- MTBF: 86,373 Hours

**Reliability Prediction  
Summary**

**File Name:** VPC-5600S.rfp  
**System:** System  
**Ref Des:**  
**Description:**

**Failure Rate:** 11577.686689  
**MTBF (hrs):** 86,373  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
System	System		1	11577.686689	86,373
9697560010-D			1	10333.698290	96,771
9697T46502-D			1	1404.559256	711,967

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 10333.698290  
**MTBF (hrs):** 96,771  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050500104	Resistor	R392,R397	2.547039	2	6.490186
1050500334	Resistor	R378	2.547039	1	3.541821
1050501004	Resistor	R227,R842,R843	2.547039	3	9.343982
1050501054	Resistor	R132,R293,R31,R362, R451	2.547039	5	14.923560
1050501224	Resistor	R761	2.547039	1	3.541821
1050501334-00	Resistor	R209,R302	2.547039	2	6.490186
1050502004	Resistor	R739	2.547039	1	3.541821
1050502204	Resistor	R712,R732,R753,R754,R961	2.547039	5	14.923560
1050502224	Resistor	R218,R271,R478,R486,R487,R488,R498,R501	2.547039	8	23.134533
1050502224-00	Resistor	R170,R181,R729	2.547039	3	9.343982
1050502234	Resistor	R110,R504,R506	2.547039	3	9.343982
1050502724	Resistor	R308	2.547039	1	3.541821
1050503634	Resistor	R438	2.547039	1	3.541821
1050504724	Resistor	R373,R446,R710,R730	2.547039	4	12.149228
1050504734	Resistor	R1013,R1015,R1026,R1028,R1033,R1039,R1044,R1045,R1046,R1049,R744	2.547039	11	31.201544
1050504764	Resistor	R368,R444	2.547039	2	6.490186
1050505134-00	Resistor	R245	2.547039	1	3.541821
1050505164	Resistor	R864	2.547039	1	3.541821
1050505604	Resistor	R910	2.547039	1	3.541821
1050505633	Resistor	R807	2.547039	1	3.541821
1050505634-00	Resistor	R671	2.547039	1	3.541821
1050506224	Resistor	R233	2.547039	1	3.541821

**File Name:** VPC-5600S.rfp

**Failure Rate:** 10333.698290

**Assembly:**

**MTBF (hrs):** 96,771

**Ref Des:**

**Temperature:** 30

**Description:**

**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050507524	Resistor	R210,R254,R314	2.547039	3	9.343982
1050508224	Resistor	R135,R450,R731,R756	2.547039	4	12.149228
1050510024	Resistor	R435	2.547039	1	3.541821
1050510034	Resistor	R1000,R1027,R1043,R1047,R121,R128,R129,R149,R166,R300,R315,R34,R395,R413,R434,R533,R534,R680,R75,R895,R908,R988,R992,R997	2.547039	24	65.832183
1050510034-00	Resistor	R976	2.547039	1	3.541821
1050510524	Resistor	R113	2.547039	1	3.541821
1050510714	Resistor	R387	2.547039	1	3.541821
1050511034	Resistor	R799	2.547039	1	3.541821
1050511304	Resistor	R189	2.547039	1	3.541821
1050511814	Resistor	R703	2.547039	1	3.541821
1050512004	Resistor	R482,R484	2.547039	2	6.490186
1050512104	Resistor	R239	2.547039	1	3.541821
1050512124-00	Resistor	R584,R636,R689,R92	2.547039	4	12.149228
1050512424	Resistor	R863	2.547039	1	3.541821
1050512724	Resistor	R190	2.547039	1	3.541821
1050514334	Resistor	R837	2.547039	1	3.541821
1050515034	Resistor	R391	2.547039	1	3.541821
1050516004	Resistor	R23,R24,R25,R26,R32,R33	2.547039	6	17.675978
1050516014	Resistor	R119	2.547039	1	3.541821
1050520004	Resistor	R206,R762	2.547039	2	6.490186
1050520034	Resistor	R20,R512	2.547039	2	6.490186
1050520034-00	Resistor	R982	2.547039	1	3.541821
1050521024	Resistor	R148	2.547039	1	3.541821
1050521524	Resistor	R277	2.547039	1	3.541821

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1050522004	Resistor	R906	2.547039	1	3.541821
1050522614	Resistor	R383	2.547039	1	3.541821
1050524004	Resistor	R304,R318,R321,R327,R329,R337,R340,R346,R349,R360,R363,R854,R866,R871,R875,R876,R880,R882,R886,R887,R888,R899	2.547039	22	60.537875
1050524904	Resistor	R272,R313,R818	2.547039	3	9.343982
1050524909	Resistor	R39,R41,R44,R45,R46,R48,R49,R50	2.547039	8	23.134533
1050525524	Resistor	R977	2.547039	1	3.541821
1050526124	Resistor	R815	2.547039	1	3.541821
1050527034	Resistor	R275	2.547039	1	3.541821
1050527424	Resistor	R836	2.547039	1	3.541821
1050530124	Resistor	R826	2.547039	1	3.541821
1050530914	Resistor	R427	2.547039	1	3.541821
1050533034	Resistor	R201,R223,R241,R317,R778	2.547039	5	14.923560
1050537464	Resistor	R388,R424	2.547039	2	6.490186
1050540224	Resistor	R124,R98	2.547039	2	6.490186
1050545304	Resistor	R400	2.547039	1	3.541821
1050545324	Resistor	R117	2.547039	1	3.541821
1050545364	Resistor	R215	2.547039	1	3.541821
1050547004	Resistor	R458,R459,R460,R461,R462,R463,R464,R465,R861	2.547039	9	25.803491
1050549904	Resistor	R165,R351,R470,R769,R927	2.547039	5	14.923560

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1050549924	Resistor	R186,R187,R679,R701,R742,R766,R767,R768	2.547039	8	23.134533
1050549934	Resistor	R72	2.547039	1	3.541821
1050549964	Resistor	R229,R236,R336,R348,R359,R835,R897	2.547039	7	20.411813
1050551004	Resistor	R211,R40,R42,R43,R47,R497,R829	2.547039	7	20.411813
1050551034	Resistor	R296	2.547039	1	3.541821
1050560464	Resistor	R896,R928	2.547039	2	6.490186
1050568004	Resistor	R407	2.547039	1	3.541821
1050568114	Resistor	R401	2.547039	1	3.541821
1050568124	Resistor	R707	2.547039	1	3.541821
1050573214	Resistor	R402	2.547039	1	3.541821
1050580664	Resistor	R246	2.547039	1	3.541821
1050582504	Resistor	R688	2.547039	1	3.541821
1050584524	Resistor	R811	2.547039	1	3.541821
1050595314	Resistor	R384	2.547039	1	3.541821
1050700002	Resistor	R431,R749	2.547039	2	6.490186
1050704304	Resistor	R865	2.547039	1	3.541821
1051507562	Resistor	R655	2.547039	1	3.541821
1052500171	Resistor	R949	2.547039	1	3.541821
1053500282	Resistor	R649	2.547039	1	3.541821
1053500489	Resistor	R309	2.547039	1	3.541821
1054600289	Resistor	R860	2.547039	1	3.541821
1054700289	Resistor	R127,R278	2.547039	2	6.490186
1054700389	Resistor	R824,R954,R957	2.547039	3	9.343982
1059700001	Resistor	R185,R284,R69,R91	2.547039	6	17.675978
		R919,R937			
1059700101	Resistor	R286,R394	2.547039	2	6.490186
1059701133	Resistor	R260	2.547039	1	3.541821
1059704703	Resistor	R27,R29	2.547039	2	6.490186
105A500103	Resistor	R62,R78	2.547039	2	6.490186



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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
105A500113	Resistor	R794	2.547039	1	3.541821
105A500139	Resistor	R1001,R1002,R1074, R167,R168,R172, R174,R289,R295, R299,R303,R323, R324,R447,R466, R476,R477,R53,R56	2.547039	31	84.303520
105A500173	Resistor	R576,R579,R601, R618,R620,R622, R674,R690,R721, R765,R771,R789	2.547039	1	3.541821
105A500233	Resistor	R415	2.547039	1	3.541821
105A500239	Resistor	R414	2.547039	1	3.541821
105A500239	Resistor	R333	2.547039	1	3.541821
105A501013	Resistor	R823,R832	2.547039	2	6.490186
105A501039	Resistor	R145,R150,R155, R157,R159,R160, R164,R177,R179, R180,R240,R266, R334,R335,R374, R398,R428,R495, R708,R711,R727, R728,R733,R755, R782,R783,R786, R791,R817,R89,R925, R956,R984,R985, R996,R998	2.547039	36	97.453680

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105A501053	Resistor	R917	2.547039	1	3.541821
105A501139	Resistor	R122,R28 0,R678	2.547039	3	9.343982
105A501233	Resistor	R214	2.547039	1	3.541821
105A501323	Resistor	R105,R10 6,R76,R81	2.547039	4	12.149228
105A501529	Resistor	R279	2.547039	1	3.541821
105A501539	Resistor	R1051,R5 65,R570, R591,R59 6,R602, R607,R83	2.547039	8	23.134533
105A502039	Resistor	R1011,R1 032,R108, R109,R15 6,R191, R281,R32 5,R326, R350,R39 3,R719, R763,R82 7,R85,R87	2.547039	16	44.592810
105A502200	Resistor	R28,R30,R 57,R58, R59,R60	2.547039	6	17.675978
105A502263	Resistor	R687,R96 3	2.547039	2	6.490186
105A503039	Resistor	R316,R81 0	2.547039	2	6.490186
105A503309	Resistor	R1006,R1 007,R101 0, R115,R17 8,R449, R453,R45 4,R457, R469,R47 9,R483, R485,R66 2,R926	2.547039	15	41.923829
105A504723	Resistor	R838,R85 1	2.547039	2	6.490186
105A505109	Resistor	R225,R88 3	2.547039	2	6.490186
105A505629	Resistor	R1005,R9 99	2.547039	2	6.490186
105A505933	Resistor	R813	2.547039	1	3.541821
105A506829	Resistor	R112	2.547039	1	3.541821

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105A507509	Resistor	R499,R503,R505,R507	2.547039	4	12.149228
105A508233	Resistor	R141,R221,R345	2.547039	3	9.343982
105A510009	Resistor	R192,R195,R203,R204,R217,R220,R247,R257,R270,R328,R342,R343,R347,R429,R430,R639,R646,R819,R828,R834,R839,R844,R845,R921	2.547039	24	65.832183
105A510223	Resistor	R341	2.547039	1	3.541821
105A510723	Resistor	R432	2.547039	1	3.541821
105A511813	Resistor	R381	2.547039	1	3.541821
105A512009	Resistor	R1057	2.547039	1	3.541821
105A512039	Resistor	R661,R849,R853	2.547039	3	9.343982
105A512433	Resistor	R958	2.547039	1	3.541821
105A513323	Resistor	R355	2.547039	1	3.541821
105A514023	Resistor	R259,R467	2.547039	2	6.490186
105A516913	Resistor	R962	2.547039	1	3.541821
105A518214	Resistor	R248,R258,R804,R809	2.547039	4	12.149228
105A521039	Resistor	R684	2.547039	1	3.541821
105A524919	Resistor	R536,R537,R550,R551,R552,R555	2.547039	6	17.675978
105A533223	Resistor	R991	2.547039	1	3.541821
105A536529	Resistor	R677	2.547039	1	3.541821
105A547529	Resistor	R389	2.547039	1	3.541821
105A549933	Resistor	R171	2.547039	1	3.541821
105A551123	Resistor	R805	2.547039	1	3.541821
105A556003	Resistor	R629	2.547039	1	3.541821
105A556229	Resistor	R382	2.547039	1	3.541821
105A562034	Resistor	R894	2.547039	1	3.541821
105A563419	Resistor	R344	2.547039	1	3.541821

**Reliability Prediction  
Summary**

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
105A593123	Resistor	R253	2.547039	1	3.541821
105A700003	Resistor	FB21,FB8, FB9,R101 6, R123,R16 1,R162, R163,R20 8,R224, R235,R26 3,R282, R310,R31 1,R366, R404,R44 5,R647, R692,R80 1	2.547039	21	57.887304
105A700004	Resistor	R403,R40 6	2.547039	2	6.490186

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105A700009	Resistor	R1,R10,R1008,R1018, R1019,R1020,R1021, R1022,R1023,R1024, R1025,R1041,R1042, R1059,R1060,R1061, R1062,R1068,R1069, R116,R118,R134, R136,R144,R151, R152,R153,R169, R176,R197,R198,R200, R201,R213,R212, R226,R228,R242, R251,R252,R255, R261,R265,R267, R268,	2.547039	157	411.914445
105A70000A	Resistor	R100,R102,R107,R21, R219,R238,R305, R386,R405,R521, R522,R523,R524, R528,R529,R530,R54, R55,R64,R65,R66, R67,R68,R71,R77, R936	2.547039	26	71.118309

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105A700139	Resistor	R103,R104,R142,R143,R319,R385,R448,R452,R471,R475,R704,R722,R725,R726,R82,R901,R947,R99,R990,R993,R994,R995	2.547039	22	60.537875
105A700203	Resistor	R175,R237,R249,R274,R288,R292,R312,R781,R814,R822,R825	2.547039	11	31.201544
105A701039	Resistor	R1034,R1035,R1036,R1037,R1038,R188,R234,R339,R364,R365,R425,R436,R538,R539,R540,R541,R549,R553,R557,R558,R559,R561,R562,R563,R567,R572,R593,R598,R604,R609,R914,R951,R974	2.547039	33	89.567332
105A701069	Resistor	R207	2.547039	1	3.541821
105A701523	Resistor	R352	2.547039	1	3.541821
105A702039	Resistor	R1030	2.547039	1	3.541821

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105A702239	Resistor	R1050,R1056,R357,R358,R967,R970	2.547039	6	17.675978
105A702269	Resistor	R125,R74	2.547039	2	6.490186
105A702433	Resistor	R196,R250	2.547039	2	6.490186
105A703309	Resistor	R714,R716,R760	2.547039	3	9.343982
105A703329	Resistor	R1052,R63,R654	2.547039	3	9.343982
105A703363	Resistor	R681	2.547039	1	3.541821
105A704729	Resistor	R1003,R1014,R1053,R1054,R1055,R332,R356,R369,R370,R375,R376,R379,R380,R416,R417,R418,R419,R420,R421,R422,R423,R500,R911,R912,R913,R915,R916,R918,R924,R935,R950,R953,R960,R964	2.547039	34	92.197308
105A704763	Resistor	R126	2.547039	1	3.541821
105A705129	Resistor	R1031	2.547039	1	3.541821
105A708229	Resistor	R433,R441,R442,R443	2.547039	4	12.149228
105A710039	Resistor	R101,R111,R146,R155,R202,R244,R330,R511,R90,R920	2.547039	10	28.506324
105A715009	Resistor	R18	2.547039	1	3.541821
105A733003	Resistor	R4,R5,R6,R7	2.547039	4	12.149228

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105A739039	Resistor	R193	2.547039	1	3.541821
105A747009	Resistor	R1012,R1029,R1040,R1048,R396,R399,R952,R971	2.547039	8	23.134533
105B500566	Resistor	R531,R532,R535,R546,R560,R574,R613,R628	2.547039	8	23.134533
105B700009	Resistor	R205,R285	2.547039	2	6.490186
105B700139	Resistor	R751,R929	2.547039	2	6.490186
105B702225	Resistor	R137,R138,R139,R140,R182	2.547039	5	14.923560
106B510034	Resistor	RT1,RT2,RT3,RT6,RT9	2.547039	5	14.923560
106B701032	Resistor	RT5,RT7	2.547039	2	6.490186
106B704723	Resistor	RT8	2.547039	1	3.541821
106BA22039	Resistor	RT4	2.547039	1	3.541821



**Reliability Prediction  
Summary**

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 10333.698290  
**MTBF (hrs):** 96,771  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1121501690	Capacitor	BC1,BC10, BC2,BC3, BC4,BC5,B C6,BC7, BC8,BC9, C131,C21 6, C270,C27 8,C404, C502,C50 3,C507, C514,C51 8,C536, C583,C58 5,C590, C592,C68 0,C681, C781,C78 3,C787, C790,C79 2,C796, C799,C80 2,C804, C807,C81 0,C816, C867,C87 1,C872, C873,C87 5,C876, C879,C89 6,C897, C898,C90 4	1.128806	60	69.913428
1121501691	Capacitor	C173,C19 8,C209, C253,C25 4,C576, C591,C60 1,C604, C621,C62 5,C891, C892,C91 6,C917, C922,C92 3,C937, C942,C95 2,C963, C964,C96 7,C970, C972,C97 5,C976	1.128806	27	31.943551
1121622780	Capacitor	C242	1.128806	1	1.418485
1121647780	Capacitor	C825	1.128806	1	1.418485

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1122522890	Capacitor	C354,C828	1.128806	2	2.664608
1124410190	Capacitor	C694,C822	1.128806	2	2.664608
1124410191	Capacitor	C727,C833	1.128806	2	2.664608
1124418090	Capacitor	C259,C260	1.128806	2	2.664608
1124418190	Capacitor	C577,C578,C579,C580,C598,C602,C603,C605,C924,C925,C926,C927,C962,C965,C966,C968	1.128806	16	19.189261
1124427090	Capacitor	C43,C630,C631,C634,C637,C646,C647,C648,C652,C654,C656,C82	1.128806	12	14.522865
1124433090	Capacitor	C513	1.128806	1	1.418485
1124433190	Capacitor	C398,C418,C527,C561,C745	1.128806	5	6.274805
1124468090	Capacitor	C557	1.128806	1	1.418485
1124522190	Capacitor	C289,C322	1.128806	2	2.664608
1124522280	Capacitor	C395,C552	1.128806	2	2.664608
1124522290	Capacitor	C292,C986	1.128806	2	2.664608
1124522680	Capacitor	C359,C795,C838	1.128806	3	3.883281
1124522880	Capacitor	C747	1.128806	1	1.418485
1124522881	Capacitor	C282	1.128806	1	1.418485
1124533280	Capacitor	C132,C169	1.128806	2	2.664608
1124547280	Capacitor	C248,C308,C401,C475	1.128806	4	5.079407
1124547290	Capacitor	C808	1.128806	1	1.418485
1124556290	Capacitor	C572	1.128806	1	1.418485

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1129522650	Capacitor	C756	1.128806	1	1.418485
1129601080	Capacitor	C539,C593	1.128806	2	2.664608
1129610051	Capacitor	C492,C508	1.128806	2	2.664608
1129610080	Capacitor	C130,C134,C135,C177,C237,C239,C389,C493,C521,C562,C649,C650,C673,C674,C675,C692,C771,C777,C834,C857,C874,C878	1.128806	22	26.156857
1129701690	Capacitor	C234,C263,C266,C530,C758,C759,C775,C836,C837,C865,C866	1.128806	11	13.352457
1129701790	Capacitor	C951	1.128806	1	1.418485
1129710090	Capacitor	C597,C950	1.128806	2	2.664608
1129710390	Capacitor	C337,C362,C599,C606	1.128806	4	5.079407
1129710391	Capacitor	C351,C390	1.128806	2	2.664608
1129715090	Capacitor	C397	1.128806	1	1.418485
1129722091	Capacitor	C240,C307,C378,C410,C486,C551,C556	1.128806	7	8.647986
1181610197	Capacitor	C595,C607	1.128806	2	2.664608
118162719B	Capacitor	C509,C510,C511	1.128806	3	3.883281
1184612192	Capacitor	C231,C232,C233	1.128806	3	3.883281
1184647090	Capacitor	C155,C204	1.128806	2	2.664608

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1189615154	Capacitor	TC1,TC2,T C3,TC4	4.744484	4	21.975190
1189633091	Capacitor	C167,C20 6	1.128806	2	2.664608
1189633151	Capacitor	C296,C46 4	1.128806	2	2.664608
1189656196	Capacitor	C172,C21 8	1.128806	2	2.664608
118C6331B2	Capacitor	C348,C56 9,C760, C780,C79 1,C841, C846,C98 4	1.128806	8	9.828323
118C6561D0	Capacitor	C889	1.128806	1	1.418485
11A2422190	Capacitor	C257	1.128806	1	1.418485
11A4410194	Capacitor	C617,C61 8,C619, C620	1.128806	4	5.079407
11A4415040	Capacitor	C819	1.128806	1	1.418485
11A4418280	Capacitor	C839	1.128806	1	1.418485
11A5447080	Capacitor	C831	1.128806	1	1.418485
11C1410440	Capacitor	C293,C29 9,C405	1.128806	3	3.883281
11C1501030	Capacitor	C829,C85 6,C859	1.128806	3	3.883281
11C1510390	Capacitor	C797,C80 1	1.128806	2	2.664608
11C1522390	Capacitor	C244,C34 4	1.128806	2	2.664608
11C1547480	Capacitor	C229	1.128806	1	1.418485
11C1547890	Capacitor	C274	1.128806	1	1.418485
11C1647780	Capacitor	C546,C54 9	1.128806	2	2.664608
11C2501050	Capacitor	C442	1.128806	1	1.418485

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11C2510190	Capacitor	C220,C221,C252,C471,C483,C494,C629,C635,C731,C739,C768,C782,C786,C793,C798,C811,C818,C826,C840,C843,C845,C847,C849	1.128806	23	27.315400
11C2510480	Capacitor	C336,C817	1.128806	2	2.664608
11C2522480	Capacitor	C540,C773,C943	1.128806	3	3.883281
11C2522780	Capacitor	C311,C407,C821	1.128806	3	3.883281
11C4401880	Capacitor	C417	1.128806	1	1.418485
11C4501640	Capacitor	C482,C488,C515,C586,C684,C722,C761,C765	1.128806	8	9.828323
11C4501650	Capacitor	C899,C921,C940,C948,C973	1.128806	5	6.274805
11C4501790	Capacitor	C235,C264,C406,C529,C702,C709,C712,C713,C714,C719,C729,C732,C784,C788	1.128806	14	16.858773
11C4510240	Capacitor	C138,C185,C286,C870	1.128806	4	5.079407
11C4510480	Capacitor	C785,C928	1.128806	2	2.664608
11C4522191	Capacitor	C531,C596	1.128806	2	2.664608

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11C4522290	Capacitor	C424,C468,C554	1.128806	3	3.883281
11C4533380	Capacitor	C291,C318,C862	1.128806	3	3.883281
11C4547280	Capacitor	C317,C805,C830	1.128806	3	3.883281
11C4547690	Capacitor	C573,C895	1.128806	2	2.664608
11C4547730	Capacitor	C728	1.128806	1	1.418485
11C4556690	Capacitor	C226,C298	1.128806	2	2.664608
11C5501650	Capacitor	C628,C632,C658,C686,C706,C707,C753,C97	1.128806	8	9.828323
11C5522690	Capacitor	C718	1.128806	1	1.418485
11C9510050	Capacitor	C941,C945,C961,C974,C977,C978,C980	1.128806	7	8.647986
11C9510290	Capacitor	C981	1.128806	1	1.418485

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11C9510490	Capacitor	C10,C100, C101,C10 2, C103,C10 4,C105, C106,C10 7,C108,C1 1, C110,C11 1,C112, C113,C11 4,C116, C117,C11 8,C119,C1 2, C120,C12 2,C123, C124,C12 5,C126, C128,C12 9,C13,C13 3, C14,C140, C141,C14 3, C145,C14 6,C147, C148,C14 9,C15,C15 0, C151,C15 3,C157,C1 6, C17,C170, C175,C17 6,	1.128806	202	232.028074
11C9522060	Capacitor	C734,C73 8	1.128806	2	2.664608
11C9527110	Capacitor	C705	1.128806	1	1.418485
11CA501040	Capacitor	C212,C21 3,C214,C3  C612,C61 3,C614, C902	1.128806	8	9.828323
11E1510050	Capacitor	C162,C22 8,C743	1.128806	3	3.883281
11E1522060	Capacitor	C433,C44 9,C844, C934	1.128806	4	5.079407
11E1522440	Capacitor	C800	1.128806	1	1.418485

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11E1522680	Capacitor	C136,C137,C193,C588,C594,C699,C910,C929,C933,C935,C936,C938,C944,C947,C949	1.128806	15	18.024625
11E1547650	Capacitor	C181	1.128806	1	1.418485
11E1622060	Capacitor	C164,C165,C166,C174,C202,C203	1.128806	6	7.463816
11E2501080	Capacitor	C701,C900	1.128806	2	2.664608
11E2501690	Capacitor	C163,C180,C196,C201,C208,C465,C564,C589,C700,C726,C733,C736,C742,C868,C908,C953,C954,C955,C956,C957,C958,C959,C960,C983	1.128806	24	28.473303
11E2522060	Capacitor	C450,C469,C610,C615,C880,C881,C882,C930,C931,C932	1.128806	10	12.180111
11E2610030	Capacitor	C1,C623	1.128806	2	2.664608
11E2622011	Capacitor	C682,C683,C906,C907	1.128806	4	5.079407
11E4433090	Capacitor	C205,C219	1.128806	2	2.664608



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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11E4510022	Capacitor	C281,C570,C584,C695,C723,C724,C740,C741,C850,C851	1.128806	10	12.180111
11E4510440	Capacitor	C545,C690	1.128806	2	2.664608
11E9501090	Capacitor	C223	1.128806	1	1.418485
11E9547060	Capacitor	C757,C764,C769	1.128806	3	3.883281
11E9547680	Capacitor	C611,C616,C806	1.128806	3	3.883281
11E9610080	Capacitor	C156,C178,C197	1.128806	3	3.883281
11E9622050	Capacitor	C4	1.128806	1	1.418485
11E9622052	Capacitor	C261,C762,C863	1.128806	3	3.883281
11E9622060	Capacitor	C207,C227	1.128806	2	2.664608
11E9622080	Capacitor	C154,C161,C273,C287,C288,C295,C310,C320,C331,C345,C372,C402,C414,C415,C416,C439,C440,C441,C459,C477,C478,C479,C480,C490,C495,C499,C500,C505,C520,C526,C547,C548,C575,C582,C763,C766,C767,C774,C823,C858,C861,C887,C985,C987	1.128806	44	51.538645

**Reliability Prediction  
Summary**

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11E9647690	Capacitor	C139,C142,C144,C152,C44,C45,C46,C6,C7,C83,C94,C96	1.128806	12	14.522865
11EA501050	Capacitor	C324,C325,C326,C332,C342,C343,C349,C350,C352,C357,C360,C365,C370,C373,C374,C376,C377,C379,C380,C381,C382,C383,C384,C385,C387,C388,C391,C394,C396,C403,C408,C409,C413,C419,C422,C423,C429,C430,C432,C436,C437,C438,C448,C455,C456,C457,C458,C461,	1.128806	60	69.913428

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11EA610040	Capacitor	C249,C268,C327,C329,C330,C334,C335,C338,C339,C340,C341,C346,C347,C355,C358,C361,C363,C364,C366,C367,C368,C371,C375,C386,C392,C393,C400,C411,C412,C420,C421,C425,C426,C434,C435,C444,C445,C446,C447,C451,C452,C453,C454,C460,C462,C463,C470,C472,	1.128806	72	83.667654
11EA647010	Capacitor	C262,C267,C279,C290,C304,C315,C323,C356,C443,C496,C497,C803,C820	1.128806	13	15.691573

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11EB501040	Capacitor	C109,C115,C121,C127,C159,C215,C217,C222,C230,C241,C247,C250,C251,C255,C265,C271,C272,C275,C276,C277,C283,C284,C294,C297,C300,C301,C302,C303,C305,C306,C309,C312,C313,C314,C316,C319,C321,C353,C399,C427,C431,C473,C481,C489,C50,C519,C550,C558,C	1.128806	61	71.060368
11EB522440	Capacitor	C669,C670,C685,C687,C688,C689,C698,C703,C715,C716,C717,C721	1.128806	12	14.522865
11EB522640	Capacitor	C813	1.128806	1	1.418485
11EB610050	Capacitor	C158,C224,C225,C243,C697,C704,C748,C752	1.128806	8	9.828323
11EB622030	Capacitor	C609	1.128806	1	1.418485
1211100119	Inductor	L20	4.944252	1	6.461578
1211100308	Inductor	L1	4.944252	1	6.461578
121110106G	Inductor	L7	4.944252	1	6.461578

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121110156P	Inductor	L16	4.944252	1	6.461578
1211101573	Inductor	L11,L12,L15,L19	4.944252	4	22.772366
121110226X	Inductor	L10,L17,L21,L8	4.944252	4	22.772366
1211103376	Inductor	L9	4.944252	1	6.461578
121110476V	Inductor	L22,L23,L24,L25,L26,L27	4.944252	6	33.271337
1211106879	Inductor	L13	4.944252	1	6.461578
121111507A	Inductor	L5	4.944252	1	6.461578
1211122076	Inductor	L4	4.944252	1	6.461578
1211133075	Inductor	L6	4.944252	1	6.461578
121113307R	Inductor	L14	4.944252	1	6.461578
1211210000	Inductor	L3	4.944252	1	6.461578
12123A000E	Inductor	FB11,FB18,FB19,FB20,FB22,FB7	4.944252	6	33.271337
12123C000A	Inductor	FB10,FB12,FB24,FB25	4.944252	4	22.772366
12123C0031	Inductor	FB14,FB15,FB16,FB17	4.944252	4	22.772366
1214309000	Inductor	CH1,CH12,CH6,CH8	4.944252	4	22.772366
121430900A	Inductor	CH10,CH11,CH2,CH3,CH4,CH5,CH7,CH9	4.944252	8	43.717664
1214900282	Inductor	L18	4.944252	1	6.461578
12310024A0	Miscellaneous	Y8	19.200000	1	41.938810
12310025A2	Miscellaneous	Y1,Y2,Y3,Y4,Y5,Y6	19.200000	6	321.595903
12313012A0	Miscellaneous	Y9	19.200000	1	41.938810
1231332726	Miscellaneous	Y7	19.200000	1	41.938810
1251005055	Semiconductor	U54,U57	22.463360	2	57.753076
1300041480	Semiconductor	D23,D24	22.463360	2	57.753076
1300054040	Semiconductor	D1	7.793411	1	10.775013
1301000560	Semiconductor	D18,D20	7.793411	2	19.771405
1301001000	Semiconductor	D15	7.793411	1	10.775013
1301003100	Semiconductor	D21	7.793411	1	10.775013
1301005440	Semiconductor	D4	7.793411	1	10.775013
1301005442	Semiconductor	D22,D6	7.793411	2	19.771405
1301010400	Semiconductor	D11	7.793411	1	10.775013

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1301010600	Semiconductor	D17,D19, D3,D5,D7	7.793411	5	45.526910
1301053040	Semiconductor	D2	7.793411	1	10.775013
1301400541	Semiconductor	D10,D8	7.793411	2	19.771405
1304000053	Optical Device	LED1,LED 2,LED3, LED4	79.003355	4	465.523540
1305005840	Semiconductor	D12,D13, D14,D16	7.793411	4	37.052017
1305040241	Semiconductor	U10,U11, U12,U3,U 4, U5,U58,U 59,U6,U62	7.793411	16	136.209751
		U63,U66, U67,U70, U71,U9			
1305040CA0	Semiconductor	D9	7.793411	1	10.775013
1305050040	Semiconductor	U94	7.793411	1	10.775013
1305100541	Semiconductor	U1,U2,U6 0,U61,U68	7.793411	8	70.615774
		U69,U7,U 8			
13100EMX10	Semiconductor	Q51	22.463360	1	31.602965
1310390410	Semiconductor	Q61	22.463360	1	31.602965
1310390413	Semiconductor	Q4	22.463360	1	31.602965
1311390610	Semiconductor	Q31,Q32, Q35,Q36	22.463360	4	107.867794
1314111719	Semiconductor	Q10	22.463360	1	31.602965
1315009210	Semiconductor	Q29	22.463360	1	31.602965
1315012010	Semiconductor	Q1,Q2,Q5, Q8	22.463360	4	107.867794
1315034430	Semiconductor	Q17	22.463360	1	31.602965
131504C850	Semiconductor	Q21,Q22, Q25	22.463360	3	83.033515
1315060301	Semiconductor	Q23,Q24, Q6,Q7	22.463360	4	107.867794
1315070020	Semiconductor	Q19,Q33, Q34,Q37, Q38,Q53, Q54,Q55, Q56,Q58, Q59	22.463360	11	276.325176
1315088200	Semiconductor	Q47,Q48, Q49	22.463360	3	83.033515
1315200312	Semiconductor	Q11,Q18	22.463360	2	57.753076
1315230114	Semiconductor	Q12	22.463360	1	31.602965

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 10333.698290  
**MTBF (hrs):** 96,771  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1315443510	Semiconductor	Q26	22.463360	1	31.602965
1315700211	Semiconductor	Q14,Q15, Q16,Q27, Q3, Q57,Q60	22.463360	7	180.963739
1315700216	Semiconductor	Q39	22.463360	1	31.602965
1315865000	Semiconductor	Q44,Q45, Q46	22.463360	3	83.033515
1315EM6K10	Semiconductor	Q28,Q30, Q43,Q50, Q52	22.463360	5	132.418067
1315EMB090	Semiconductor	Q20	22.463360	1	31.602965
1315P09080	Semiconductor	Q42	22.463360	1	31.602965
1315P12100	Semiconductor	Q40,Q41, Q62,Q9	22.463360	4	107.867794
142LIS3DH0	Integrated Circuit	U88	43.803003	1	85.184662
1430006710	Integrated Circuit	U38,U45	43.803003	2	146.310248
1430012821	Integrated Circuit	U26,U27	43.803003	2	146.310248
1430021430	Integrated Circuit	U23	43.803003	1	85.184662
1430036010	Integrated Circuit	U41	43.803003	1	85.184662
1430045600	Integrated Circuit	U89	43.803003	1	85.184662
1430051210	Integrated Circuit	U81	43.803003	1	85.184662
1430051750	Integrated Circuit	U83	43.803003	1	85.184662
1430080650	Integrated Circuit	U34,U35, U37	43.803003	3	203.118269
1430087620	Integrated Circuit	U32	43.803003	1	85.184662
1430238610	Integrated Circuit	U13	43.803003	1	85.184662
1430812460	Integrated Circuit	U36	43.803003	1	85.184662
1430812530	Integrated Circuit	U82	43.803003	1	85.184662
14308239B0	Integrated Circuit	U80	43.803003	1	85.184662
143ALC8920	Integrated Circuit	U56	43.803003	1	85.184662
1440002130	Integrated Circuit	U48,U90, U91,U92	43.803003	4	257.787974
1440010500	Integrated Circuit	U100	43.803003	1	85.184662
14407600U0	Integrated Circuit	U84	21.706765	1	42.213622
1445F56301	Integrated Circuit	U40	43.803003	1	85.184662
145901G080	Integrated Circuit	U86	43.803003	1	85.184662
1462251281	Integrated Circuit		43.803003	1	85.184662
1462VP56A1	Integrated Circuit	U21	11.063278	1	17.172862
1489VPC551	Integrated Circuit	U95	43.803003	1	85.184662
1490011820	Integrated Circuit	U78,U79	43.803003	2	146.310248
1490051030	Integrated Circuit	U22	43.803003	1	85.184662
14909660T0	Integrated Circuit	U87	43.803003	1	85.184662
14S3104500	Integrated Circuit	U97,U98	43.803003	2	146.310248
14S3820700	Integrated Circuit	U85	43.803003	1	85.184662
14S3E00100	Integrated Circuit	U64	43.803003	1	85.184662
14S3S00900	Integrated Circuit	U65	43.803003	1	85.184662

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 10333.698290  
**MTBF (hrs):** 96,771  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14S4048503	Integrated Circuit	U44,U46, U52,U55	43.803003	4	257.787974
14S4186600	Integrated Circuit	U39	43.803003	1	85.184662
14S4193600	Integrated Circuit		43.803003	1	85.184662
14S4811103	Integrated Circuit	U72,U73, U74,U75, U76,U77	43.803003	6	363.508251
14S5812502	Integrated Circuit	U47,U49	26.018600	2	70.451049
14S5A00401	Integrated Circuit	U51,U53	26.018600	2	70.451049
14S5A00821	Integrated Circuit	U28,U29, U30,U31	26.018600	4	129.921093
14S5A12506	Integrated Circuit	U42,U43	26.018600	2	70.451049
14S6334607	Integrated Circuit	U14,U15, U16,U17, U18,U19	43.803003	6	363.508251
14S6340221	Integrated Circuit	U24,U25	11.063278	2	30.705841
14S7041000	Integrated Circuit	U96,U99	43.803003	2	146.310248
14S7140000	Integrated Circuit	U50,U93	43.803003	2	146.310248
1540722281	Resistor	RP1	9.971436	1	19.377251
1600001600	Connection	SW3	16.184835	1	28.022514
1601110201	Connection	SW2	16.184835	1	28.022514
1601615600	Connection	SW1	16.184835	1	28.022514
1651508010	Connection	CN17,CN2 4	16.184835	2	49.043282
1651526001	Connection	DIMM1	16.184835	1	28.022514
1651526003	Connection	DIMM2	16.184835	1	28.022514
1652210200	Connection	CN20	16.184835	1	28.022514
1652514210	Connection	AUDIO1	16.184835	1	28.022514
1652532206	Connection	CN1,CN2	16.184835	2	49.043282
1652602107	Connection	CN22	16.184835	1	28.022514
165260220A	Connection	CN11	16.184835	1	28.022514
1652606202	Connection	CN19	16.184835	1	28.022514
1652884200	Connection	CN4	16.184835	1	28.022514
1653002101	Connection	CN12,CN1 3	16.184835	2	49.043282
1653003101	Connection	CN10,CN1 4,CN16, CN18	16.184835	4	88.145664
1653003201	Connection	CN15,CN5	16.184835	2	49.043282
1653205203	Connection	COM1,CO M2	16.184835	2	49.043282
1653300102	Connection	CN14(2- 3), CN15 (3-4), CN16(2- 3), CN18 (1-2),CN5 (1-2)	16.184835	5	107.028052



**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 10333.698290  
**MTBF (hrs):** 96,771  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1653300107	Connection	CN10(2-3)	16.184835	1	28.022514
1654004002	Connection	CN3	16.184835	1	28.022514
1654205230	Connection	SLOT1,SL OT2	16.184835	2	49.043282
1654226303	Connection	MSATA1,S LOT3	16.184835	2	49.043282
165440193A	Connection	HDMI1	16.184835	1	28.022514
1654418106	Connection	COM3	16.184835	1	28.022514
1654900704	Connection	SATA1,SA TA2	16.184835	2	49.043282
1654903600	Connection	CN8	16.184835	1	28.022514
1654910305	Connection	DP1	16.184835	1	28.022514
1655004011	Connection	CN6,CN7	16.184835	2	49.043282
1655404121	Connection	CN21	16.184835	1	28.022514
1655902034	Connection	CN9	16.184835	1	28.022514
1655907130	Connection	CN23	16.184835	1	28.022514
1655912032	Connection	LPC1	16.184835	1	28.022514
175011901R	Miscellaneous	CN9	306.000000	1	594.642389
1752000501	Miscellaneous	FS2	2.400000	1	3.927328
1752002500	Miscellaneous	FS1,FS3	2.400000	2	6.947111
1752026001	Miscellaneous	FS8	2.400000	1	3.927328
1752046600	Miscellaneous	FS4,FS5,F S6,FS7	2.400000	4	12.613222

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 1404.559256  
**MTBF (hrs):** 711,967  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1050504734	Resistor	R137	2.547039	1	3.541821
1050511814	Resistor	R145	2.547039	1	3.541821
1050512124-00	Resistor	R25,R7	2.547039	2	6.490186
1050524909	Resistor	R106,R111,R112,R118,R119,R125,R126,R99	2.547039	8	23.134533
1050549924	Resistor	R133,R144	2.547039	2	6.490186
1050549934	Resistor	R44	2.547039	1	3.541821
1050551004	Resistor	R101,R107,R113,R120	2.547039	4	12.149228
1050568124	Resistor	R143	2.547039	1	3.541821
1050582504	Resistor	R141	2.547039	1	3.541821
1051507562	Resistor	R128	2.547039	1	3.541821
1053500282	Resistor	R127	2.547039	1	3.541821
1054700389	Resistor	R954,R957	2.547039	2	6.490186
1059700001	Resistor	R163,R42	2.547039	2	6.490186
1059704703	Resistor	R151,R154,R155,R157	2.547039	4	12.149228
105A500139	Resistor	R56,R69,R75,R95	2.547039	4	12.149228
105A501139	Resistor	R136	2.547039	1	3.541821
105A501323	Resistor	R37,R39	2.547039	2	6.490186
105A501539	Resistor	R55,R68,R82,R91	2.547039	4	12.149228
105A502039	Resistor	R43,R45	2.547039	2	6.490186
105A502200	Resistor	R152,R153,R156,R158	2.547039	4	12.149228
105A503309	Resistor	R10	2.547039	1	3.541821
105A510009	Resistor	R129,R130	2.547039	2	6.490186
105A524919	Resistor	R57,R70,R83,R96	2.547039	4	12.149228
105A536529	Resistor	R139	2.547039	1	3.541821

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 1404.559256  
**MTBF (hrs):** 711,967  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
105A700009	Resistor	R11,R13,R131,R132,R138,R140,R142,R166,R167,R164,R165,R166,R177,R2,R3,R32,R33,R35,R36,R38,R40,R46,R50,R58,R63,R71,R78,R84,R88,R958,R959,R97	2.547039	31	84.303520
105A70000A	Resistor	R1,R102,R103,R108,R109,R114,R115,R121,R122,R41,R48	2.547039	14	39.250711
105A701039	Resistor	R61,R76,R87	2.547039	12	33.890167
105A703363	Resistor	R47,R52,R54,R60,R65,R67,R73,R80,R81,R86,R90,R94	2.547039	1	3.541821
105B500566	Resistor	R134	2.547039	8	23.134533
1124410190	Capacitor	R147,R148,R149,R150,R159,R160,R161,R162	1.128806	1	1.418485
1124410191	Capacitor	C180	1.128806	1	1.418485
1124427090	Capacitor	C184	1.128806	8	9.828323
1124433190	Capacitor	C101,C105,C128,C129,C52,C53,C78,C79	1.128806	1	1.418485
1124522880	Capacitor	C188	1.128806	1	1.418485
1129610080	Capacitor	C187	1.128806	5	6.274805
	Capacitor	C102,C126,C27,C50,C75	1.128806		

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 1404.559256  
**MTBF (hrs):** 711,967  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1184612192	Capacitor	C171,C172	1.128806	2	2.664608
1189633091	Capacitor	C177,C178	1.128806	2	2.664608
11C1547480	Capacitor	C182	1.128806	1	1.418485
11C2501050	Capacitor	C2,C4,C8	1.128806	3	3.883281
11C4501650	Capacitor	C899,C940	1.128806	2	2.664608
11C4547730	Capacitor	C185	1.128806	1	1.418485
11C5501650	Capacitor	C173,C175,C179,C189,C190,C192,C193,C194	1.128806	8	9.828323
11C5522690	Capacitor	C176	1.128806	1	1.418485
11C9510490	Capacitor	C1,C10,C100,C103,C104,C106,C108,C110,C111,C112,C113,C114,C115,C116,C117,C118,C119,C12,C120,C121,C123,C124,C125,C127,C13,C130,C131,C132,C134,C136,C137,C138,C139,C140,C141,C142,C143,C144,C145,C146,C147,C149,C150,C151,C152,C153,C154,C155,C	1.128806	119	137.405162
11C9527110	Capacitor	C168	1.128806	1	1.418485
11E1510050	Capacitor	C181	1.128806	1	1.418485
11E1522680	Capacitor	C35	1.128806	1	1.418485

**File Name:** VPC-5600S.rfp  
**Assembly:**  
**Ref Des:**  
**Description:**

**Failure Rate:** 1404.559256  
**MTBF (hrs):** 711,967  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
11E2501690	Capacitor	C186	1.128806	1	1.418485
11E4510022	Capacitor	C170,C174,C941	1.128806	3	3.883281
11E4510440	Capacitor	C31	1.128806	1	1.418485
11E9610080	Capacitor	C20,C29,C30	1.128806	3	3.883281
11E9622080	Capacitor	C32,C40	1.128806	2	2.664608
11E9647690	Capacitor	C107,C109,C133,C135,C55,C57,C81,C83	1.128806	8	9.828323
11EB501040	Capacitor	C122,C148,C70,C96	1.128806	4	5.079407
11EB522440	Capacitor	C11,C14,C16,C21,C22,C23,C24,C25,C26,C9	1.128806	10	12.180111
121110476V	Inductor	L2,L3,L4,L5	4.944252	4	22.772366
121111507A	Inductor	L1	4.944252	1	6.461578
1211203320	Inductor	L6	4.944252	1	6.461578
12123A000B	Inductor	FB5	4.944252	1	6.461578
1214900282	Inductor	L18	4.944252	1	6.461578
12310025A2	Miscellaneous	Y1,Y2,Y3,Y4	19.200000	4	227.882136
1301001000	Semiconductor	D1	7.793411	1	10.775013
1301010600	Semiconductor	D2,D3	7.793411	2	19.771405
1305005840	Semiconductor	D4,D5,D6,D7	7.793411	4	37.052017
1315012010	Semiconductor	Q5,Q6,Q7,Q8	22.463360	4	107.867794
13150123N0	Semiconductor	Q1	22.463360	1	31.602965
1315P12100	Semiconductor	Q2,Q3,Q4,Q9	22.463360	4	107.867794
1430021430	Semiconductor	U3	22.463360	1	31.602965
1430051210	Semiconductor	U12	22.463360	1	31.602965
1430238610	Semiconductor	U13	22.463360	1	31.602965
1490011840	Semiconductor	U1	22.463360	1	31.602965
14S4811103	Semiconductor	U10,U4,U6,U8	22.463360	4	107.867794
14S6334607	Semiconductor	U11,U5,U7,U9	22.463360	4	107.867794
1652884200	Connection	CN2	16.184835	1	28.022514
1654004024	Connection	CN1	16.184835	1	28.022514
1752046600	Miscellaneous	FS1,FS2,FS3,FS4	2.400000	4	12.613222