

OMNI-5155-BT

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8614.668540 MTBF: 116,081 hours
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Issue date

QE Manager

Test Engineer

2017/4/28

KJ Wang

Anderson Lin

Reliability Prediction (MTBF)

I . Model Name: OMNI-5155-BT

II . Prediction Date: Apr. 28, 2017

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

IV . Predicted by: Anderson Lin

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:

OMNI-5155-BT (9697BT030B-D):

- Failure Rate: 8614.668540

- MTBF: 116,081 Hours

**AAEON Reliability Prediction
Summary**

File Name: OMNI-5155-BT.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
OMNI-51155-BT	9697BT030B-D		1	8614.668540	116,081

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501234.0000 00000000000	Resistor	R525,R568,R 604		2.547039	3	107020754.986850
1050501834.0000 00000000000	Resistor	R209		2.547039	1	282340674.079668
1050502004.0000 00000000000	Resistor	R513,R514,R 522, R523,R569,R 570, R647,R663		2.547039	8	43225424.698300
1050502734.0000 00000000000	Resistor	R253,R882		2.547039	2	154078778.388085
1050503634.0000 00000000000	Resistor	R324		2.547039	1	282340674.079668
1050503934.0000 00000000000	Resistor	R163,R596,R 600, R690		2.547039	4	82309758.689546
1050504724.0000 00000000000	Resistor	R24,R3,R4,R 493, R494,R60,R7 0		2.547039	7	48991237.965885
1050504734.0000 00000000000	Resistor	R251,R296		2.547039	2	154078778.388085
1050505124.0000 00000000000	Resistor	R129,R288		2.547039	2	154078778.388085
1050505134.0000 00000000000	Resistor	R306,R580,R 612		2.547039	3	107020754.986850
1050505633.0000 00000000000	Resistor	R139,R845		2.547039	2	154078778.388085
1050507524.0000 00000000000	Resistor	R287,R393		2.547039	2	154078778.388085
1050510034.0000 00000000000	Resistor	R314,R327,R 459, R473,R63,R6 9,R76, R894,R895,R 896, R897,R900,R 901, R902,R903		2.547039	15	23852782.943395
1050510524.0000 00000000000	Resistor	R398		2.547039	1	282340674.079668
1050512004.0000 00000000000	Resistor	R892,R893,R 898, R899		2.547039	4	82309758.689546
1050512414.0000 00000000000	Resistor	R193		2.547039	1	282340674.079668
1050513724.0000 00000000000	Resistor	R311,R869		2.547039	2	154078778.388085
1050515034.0000 00000000000	Resistor	R652,R662,R 685		2.547039	3	107020754.986850
1050516034.0000 00000000000	Resistor	R197		2.547039	1	282340674.079668

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050516204.0000 00000000000	Resistor	R62		2.547039	1	282340674.079668
1050516934.0000 00000000000	Resistor	R661		2.547039	1	282340674.079668
1050516964.0000 00000000000	Resistor	R654		2.547039	1	282340674.079668
1050520034.0000 00000000000	Resistor	R256,R712,R 715		2.547039	3	107020754.986850
1050521024.0000 00000000000	Resistor	R88		2.547039	1	282340674.079668
1050523264.0000 00000000000	Resistor	R66		2.547039	1	282340674.079668
1050524934.0000 00000000000	Resistor	R867		2.547039	1	282340674.079668
1050527424.0000 00000000000	Resistor	R621,R744		2.547039	2	154078778.388085
1050529464.0000 00000000000	Resistor	R61		2.547039	1	282340674.079668
1050530004.0000 00000000000	Resistor	R752		2.547039	1	282340674.079668
1050530124.0000 00000000000	Resistor	R743		2.547039	1	282340674.079668
1050536514.0000 00000000000	Resistor	R879		2.547039	1	282340674.079668
1050540204.0000 00000000000	Resistor	R164,R184,R 238		2.547039	3	107020754.986850
1050540214.0000 00000000000	Resistor	R188		2.547039	1	282340674.079668
1050540224.0000 00000000000	Resistor	R611		2.547039	1	282340674.079668
1050545364.0000 00000000000	Resistor	R202,R709		2.547039	2	154078778.388085
1050547564.0000 00000000000	Resistor	R187		2.547039	1	282340674.079668
1050561934.0000 00000000000	Resistor	R838		2.547039	1	282340674.079668
1050568124.0000 00000000000	Resistor	R252		2.547039	1	282340674.079668
1050573264.0000 00000000000	Resistor	R106,R117,R 118		2.547039	3	107020754.986850
1050584524.0000 00000000000	Resistor	R73		2.547039	1	282340674.079668
1050700002.0000 00000000000	Resistor	R35,R740		2.547039	2	154078778.388085
1050708234.0000 00000000000	Resistor	R58		2.547039	1	282340674.079668
1050718034.0000 00000000000	Resistor	R844		2.547039	1	282340674.079668

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1053500489.0000 00000000000	Resistor	R802		2.547039	1	282340674.079668
1054500689.0000 00000000000	Resistor	R843		2.547039	1	282340674.079668
1054700289.0000 00000000000	Resistor	R309,R510		2.547039	2	154078778.388085
1059520001.0000 00000000000	Resistor	R215		2.547039	1	282340674.079668
1059700001.0000 00000000000	Resistor	R336,R337		2.547039	2	154078778.388085
1059702261.0000 00000000000	Resistor	R403,R419		2.547039	2	154078778.388085
1059710001.0000 00000000000	Resistor	R249		2.547039	1	282340674.079668
	Resistor	R135,R247,R 800		2.547039	3	107020754.986850
	Resistor	R15,R195,R1 96,R28, R51,R527,R5 38,R891		2.547039	8	43225424.698300
	Resistor	R104,R121,R 141, R154,R165,R 166, R167,R183,R 185, R199,R230,R 231, R232,R64,R7 08,R71, R730,R732,R 733, R734,R77,R7 8,R79, R82,R83,R95 ,R96		2.547039	27	13557741.157915
	Resistor	R31		2.547039	1	282340674.079668
	Resistor	R119,R763		2.547039	2	154078778.388085
	Resistor	R128,R21,R2 50,R348, R370,R579,R 65,R742, R755		2.547039	9	38754445.632391
	Resistor	R466,R856		2.547039	2	154078778.388085
	Resistor	R254,R471,R 515, R914		2.547039	4	82309758.689546
	Resistor	R127,R25,R2 6,R461, R547,R81		2.547039	6	56573956.677649

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 Ref Des:
 Description:

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R198,R543,R55		2.547039	3	107020754.986850
	Resistor	R156,R157,R178,R179,R194		2.547039	5	67008142.102588
	Resistor	R597		2.547039	1	282340674.079668
	Resistor	R678		2.547039	1	282340674.079668
	Resistor	R480,R481,R483		2.547039	3	107020754.986850
	Resistor	R840		2.547039	1	282340674.079668
	Resistor	R365,R380		2.547039	2	154078778.388085
	Resistor	R102,R111,R242,R762		2.547039	4	82309758.689546
	Resistor	R319		2.547039	1	282340674.079668
	Resistor	R399		2.547039	1	282340674.079668
	Resistor	R458,R460		2.547039	2	154078778.388085
	Resistor	R807		2.547039	1	282340674.079668
	Resistor	R344		2.547039	1	282340674.079668
	Resistor	R174,R349,R476,R477,R479,R727,R728,R729		2.547039	8	43225424.698300
	Resistor	R169,R594		2.547039	2	154078778.388085
	Resistor	R74		2.547039	1	282340674.079668
	Resistor	R318,R329		2.547039	2	154078778.388085
	Resistor	R808		2.547039	1	282340674.079668
	Resistor	R646		2.547039	1	282340674.079668
	Resistor	R737		2.547039	1	282340674.079668
	Resistor	R75		2.547039	1	282340674.079668
	Resistor	R155		2.547039	1	282340674.079668
	Resistor	R325		2.547039	1	282340674.079668
	Resistor	R836		2.547039	1	282340674.079668
	Resistor	R229,R248		2.547039	2	154078778.388085
	Resistor	R870		2.547039	1	282340674.079668
	Resistor	R447,R448,R455		2.547039	3	107020754.986850
	Resistor	R519		2.547039	1	282340674.079668
	Resistor	R115,R130,R142,R143,R144		2.547039	5	67008142.102588
	Resistor	R1139		2.547039	1	282340674.079668
	Resistor	R289,R291,R292,R295,R758,R766,R768,R771		2.547039	8	43225424.698300
	Resistor	R153		2.547039	1	282340674.079668

**Reliability Prediction
Summary**

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R595		2.547039	1	282340674.079668
	Resistor	R1141,R123, R136, R140,R181,R 27,R300, R317,R322,R 345, R392,R420,R 424,R49, R53,R544,R5 72,R731, R772,R80,R8 01,R816, R825,R826,R 834, R835,R872,R 98		2.547039	28	13089488.559853
	Resistor	R10,R103,R1 08,R11, R112,R125,R 152, R158,R16,R1 90,R191, R200,R201,R 213, R214,R216,R 217, R218,R22,R2 21,R222, R223,R224,R 225, R226,R227,R 228, R234,R235,R 236, R237,R243,R 263, R264,R267,R 268, R269,R273,R 293, R294,R323,R 33,R34, R346,R347,R 354, R358,R408,R 42,R42		2.547039	127	2991386.832227

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R20,R23,R28 1,R283, R308,R316,R 402, R413,R441,R 528, R540,R549,R 584, R716,R818,R 820, R828,R837,R 842		2.547039	19	19019185.781770
	Resistor	R865,R878		2.547039	2	154078778.388085
	Resistor	R1,R100,R10 1,R105, R114,R12,R1 46,R147, R148,R160,R 161,R17, R170,R176,R 177, R182,R189,R 2,R204, R212,R220,R 233, R239,R244,R 255, R265,R285,R 320, R342,R343,R 359, R360,R367,R 371, R372,R377,R 378, R381,R382,R 386, R391,R395,R 396, R397,R40,R4 00,R401, R404,R405,R 40		2.547039	135	2816861.927602
	Resistor	R208,R321,R 451, R548,R593,R 829,R94		2.547039	7	48991237.965885
	Resistor	R697		2.547039	1	282340674.079668
	Resistor	R13,R138,R1 4		2.547039	3	107020754.986850

File Name: OMNI-5155-BT.rfp
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 Ref Des:
 Description:

Failure Rate: 8614.668540
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R109,R120,R145, R205,R207,R259, R261,R275,R276, R453,R456,R635, R692,R695,R696, R710,R711,R713, R714,R719,R724,R89		2.547039	22	16518584.576317
	Resistor	R210		2.547039	1	282340674.079668
	Resistor	R915		2.547039	1	282340674.079668
	Resistor	R412,R414,R561, R590,R610,R618, R625,R636,R637, R670,R679,R680, R784,R785		2.547039	14	25477245.255648
	Resistor	R351,R352,R353, R355,R356,R357, R803,R805,R852, R855		2.547039	10	35079934.879747
	Resistor	R286		2.547039	1	282340674.079668
	Resistor	R134,R137,R151, R373,R389,R449, R450,R486,R516, R521,R532,R536, R537,R550,R551, R552,R555,R573, R640,R698,R699, R700,R701,R702, R703,R704,R705, R875,R881		2.547039	29	12652760.276502

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R332,R333,R334, R335,R338,R339, R340,R341		2.547039	8	43225424.698300
	Resistor	R677,R686,R687		2.547039	3	107020754.986850
	Resistor	R374,R383,R388, R394,R439		2.547039	5	67008142.102588
	Resistor	R186,R257,R272, R277,R279,R280, R282,R284,R290, R297,R298,R299, R301,R302,R307, R315,R330,R427, R428,R429,R431, R432,R433,R434, R462,R489,R490, R499,R560,R571, R577,R578,R588, R603,R607,R626, R747,R757,R760, R764,R767,R770, R775,R778,R782, R791,R824,R832,		2.547039	56	6674742.756943
	Resistor	R168		2.547039	1	282340674.079668
	Resistor	R868		2.547039	1	282340674.079668
	Resistor	R410,R411,R468, R469,R470,R475, R819,R821,R858, R862		2.547039	10	35079934.879747

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R18,R180,R278,R32,R59,R735,R741,R761,R792		2.547039	9	38754445.632391
	Resistor	RT1,RT2,RT3,RT4		2.547039	4	82309758.689546
1121501690.0000 00000000000	Capacitor	C438,C441,C682		1.128806	3	257514172.353070
1121501691.0000 00000000000	Capacitor	C1,C102,C121,C129,C136,C143,C15,C16,C162,C163,C168,C169,C170,C179,C197,C20,C21,C214,C215,C216,C217,C218,C22,C228,C23,C230,C231,C232,C233,C234,C235,C24,C248,C249,C25,C250,C251,C253,C256,C257,C258,C259,C26,C260,C261,C262,C263,C264,C265,C268,C2		1.128806	243	3588123.393672
1124410191.0000 00000000000	Capacitor	C201,C202,C203,C204,C221,C222,C223,C224,C225,C226,C252,C255		1.128806	12	68856937.301178
1124418090.0000 00000000000	Capacitor	C509,C510,C557,C560		1.128806	4	196873384.410843

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1124427091.0000 00000000000	Capacitor	C219,C220,C 379, C380,C381,C 382, C424,C425,C 426		1.128806	9	90863428.080946
1124433190.0000 00000000000	Capacitor	C351		1.128806	1	704977644.692287
1124522680.0000 00000000000	Capacitor	C367,C368		1.128806	2	375289731.076049
1124533282.0000 00000000000	Capacitor	C315		1.128806	1	704977644.692287
1129622690.0000 00000000000	Capacitor	C104,C131,C 132,C2, C42,C442,C4 56,C457, C480,C489,C 490,C70, C75,C81		1.128806	14	59316298.011235
1129701791.0000 00000000000	Capacitor	C110,C115,C 137, C145,C182,C 191, C240,C241,C 242, C243,C275,C 305, C345,C355,C 506, C516,C541,C 656,C72		1.128806	19	44097696.883526
1129710091.0000 00000000000	Capacitor	C420,C421,C 422, C529,C669		1.128806	5	159367490.199266
1129710390.0000 00000000000	Capacitor	C437,C440		1.128806	2	375289731.076049
1129710391.0000 00000000000	Capacitor	C327,C328,C 334, C335,C472,C 482, C665		1.128806	7	115633865.771428
1129722091.0000 00000000000	Capacitor	C681		1.128806	1	704977644.692287
1189610153.0000 00000000000	Capacitor	C462		1.128806	1	704977644.692287
1189615151.0000 00000000000	Capacitor	TC6,TC7		1.128806	2	375289731.076049
1189615154.0000 00000000000	Capacitor	TC13,TC14,T C3,TC4, TC5		1.128806	5	159367490.199266
1189622154.0000 00000000000	Capacitor	TC17,TC18		1.128806	2	375289731.076049

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1189633151.0000 00000000000	Capacitor	TC1,TC19,TC2,TC8, TC9		1.128806	5	159367490.199266
1189933180.0000 00000000000	Capacitor	TC10,TC11,TC12,TC15,TC16		1.128806	5	159367490.199266
	Capacitor	C363,C364		1.128806	2	375289731.076049
	Capacitor	C326,C417		1.128806	2	375289731.076049
	Capacitor	C390		1.128806	1	704977644.692287
	Capacitor	C348,C393,C399,C415,C677		1.128806	5	159367490.199266
	Capacitor	C678		1.128806	1	704977644.692287
	Capacitor	C181,C237,C361,C377,C635,C68		1.128806	6	133979725.056342
	Capacitor	C337,C341,C369,C370,C371,C372,C373,C374,C385,C408,C418,C419,C545,C546,C547,C549,C550,C551,C552,C553,C640,C641,C643,C644		1.128806	24	35120617.936543
	Capacitor	C636		1.128806	1	704977644.692287
	Capacitor	C386,C673		1.128806	2	375289731.076049
	Capacitor	C637		1.128806	1	704977644.692287
	Capacitor	C19,C254,C310,C321,C331,C352,C356,C439,C580,C660,C674		1.128806	11	74892583.279796
	Capacitor	C358,C525,C558		1.128806	3	257514172.353070
	Capacitor	C520		1.128806	1	704977644.692287
	Capacitor	C246,C322,C347,C592,C598,C651		1.128806	6	133979725.056342

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	Capacitor	C100,C245,C317, C394,C564,C566, C567,C568,C599, C600,C601,C606, C679,C97,C98,C99		1.128806	16	52112480.802928
	Capacitor	C647		1.128806	1	704977644.692287
	Capacitor	C247,C398,C400, C414,C416,C459, C521,C579		1.128806	8	101746760.035398
	Capacitor	C376		1.128806	1	704977644.692287
	Capacitor	C103,C105,C106, C107,C109,C111, C112,C114,C116, C117,C118,C119, C120,C122,C123, C124,C125,C13,C130, C14,C142,C147,C148, C150,C151,C152, C157,C158,C164, C165,C166,C17,C171, C172,C173,C174, C175,C176,C177, C178,C180,C184, C185,C186,C187, C188,C189,C190, C19		1.128806	99	8729159.738216
	Capacitor	C167,C18,C392,C522, C83		1.128806	5	159367490.199266
	Capacitor	C133,C135,C144, C281,C423		1.128806	5	159367490.199266

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Capacitor	C108,C314		1.128806	2	375289731.076049
	Capacitor	C10,C11,C12,C134,C146,C27,C273,C276,C286,C296,C307,C32,C34,C35,C359,C360,C39,C4,C41,C427,C449,C458,C460,C461,C479,C491,C493,C501,C523,C575,C577,C629,C646,C653,C654,C663,C664,C7,C85,C95,C96		1.128806	41	20795506.904934
	Capacitor	C680		1.128806	1	704977644.692287
	Capacitor	C113,C126,C138,C139,C140,C141,C193,C199,C209,C227,C244,C269,C270,C313,C387,C43,C452,C517,C518,C565,C570,C77,C78,C79		1.128806	24	35120617.936543
	Capacitor	C530		1.128806	1	704977644.692287
	Capacitor	C540		1.128806	1	704977644.692287
	Capacitor	C684		1.128806	1	704977644.692287
	Capacitor	C295		1.128806	1	704977644.692287
	Capacitor	C683		1.128806	1	704977644.692287
	Capacitor	C29,C311,C375		1.128806	3	257514172.353070
	Inductor	L6		4.944252	1	154760964.143460
	Inductor	L10		4.944252	1	154760964.143460
	Inductor	L9		4.944252	1	154760964.143460
	Inductor	L5		4.944252	1	154760964.143460

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1211104270.0000 00000000000	Inductor	L1,L2		4.944252	2	83201062.149749
1211115076.0000 00000000000	Inductor	L3		4.944252	1	154760964.143460
1211122070.0000 00000000000	Inductor	L7		4.944252	1	154760964.143460
1211122071.0000 00000000000	Inductor	L4		4.944252	1	154760964.143460
1212306030.0000 00000000000	Inductor	L8		4.944252	1	154760964.143460
	Inductor	FB20,FB21,F B36, FB40,FB42,F B44,FB5, FB6,FB7		4.944252	9	20443842.451049
1212308054.0000 00000000000	Inductor	FB1,FB22,FB 26,FB27, FB3,FB35,FB 4,FB9		4.944252	8	22874049.098230
	Inductor	FB17,FB18,F B19, FB23,FB38,F B39, FB41,FB43		4.944252	8	22874049.098230
	Inductor	FB11,FB12,F B13, FB14,FB15,F B16, FB24,FB25,F B28, FB29,FB30,F B31, FB32,FB33,F B34		4.944252	15	12521115.446963
1214109000.0000 00000000000	Inductor	CH12,CH22,C H24,CH9		4.944252	4	43912872.424775
1214309006.0000 00000000000	Inductor	CH25		4.944252	1	154760964.143460
1214309009.0000 00000000000	Inductor	CH14,CH15,C H18, CH19,CH6,C H8		4.944252	6	30055900.223009
1231324056.0000 00000000000	Inductor	Y5		4.944252	1	154760964.143460
	Inductor	Y1,Y2,Y3		4.944252	3	57363284.375370
1231332726.0000 00000000000	Inductor	Y7		4.944252	1	154760964.143460
	Inductor	Y6		4.944252	1	154760964.143460
1300041480.0000 00000000000	Miscellaneous	D24,D25		19.200000	2	8854051.752197

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1301003440.0000 00000000000	Miscellaneous	D27,D29,D58 ,D59		19.200000	4	4388233.395340
1301013040.0000 00000000000	Miscellaneous	D31		19.200000	1	23844262.770939
1301053040.0000 00000000000	Miscellaneous	D1		19.200000	1	23844262.770939
1301075140.0000 00000000000	Miscellaneous	D3,D4		19.200000	2	8854051.752197
1301400640.0000 00000000000	Miscellaneous	D21		19.200000	1	23844262.770939
1301400642.0000 00000000000	Miscellaneous	D23		19.200000	1	23844262.770939
1301793040.0000 00000000000	Miscellaneous	D20,D22,D30		19.200000	3	5742504.738137
1302052320.0000 00000000000	Miscellaneous	D28		19.200000	1	23844262.770939
1304000043.0000 00000000000	Miscellaneous	LED4		19.200000	1	23844262.770939
1304300140.0000 00000000000	Miscellaneous	LED1,LED2		19.200000	2	8854051.752197
1304500240.0000 00000000000	Miscellaneous	LED3		19.200000	1	23844262.770939
1305080040.0000 00000000000	Miscellaneous	D10,D11,D12 ,D13, D14,D15,D16 ,D17, D18,D19,D26 ,D5,D6, D7,D8,D9		19.200000	16	1459498.327057
1310390410.0000 00000000000	Miscellaneous	D32		19.200000	1	23844262.770939
1310390413.0000 00000000000	Semiconductor	Q44		22.463360	1	31642600.748419
1310390413.0000 00000000000	Semiconductor	Q40,Q41		22.463360	2	17315095.066101
1311390612.0000 00000000000	Semiconductor	Q39,Q6		22.463360	2	17315095.066101
	Semiconductor	U68		22.463360	1	31642600.748419
	Semiconductor	Q42,Q43		22.463360	2	17315095.066101
1315015530.0000 00000000000	Semiconductor	Q64,Q65,Q6 6		22.463360	3	12043329.789539
1315035110.0000 00000000000	Semiconductor	Q57		22.463360	1	31642600.748419
1315036640.0000 00000000000	Semiconductor	Q9		22.463360	1	31642600.748419
1315086540.0000 00000000000	Semiconductor	Q70,Q71		22.463360	2	17315095.066101

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315230511.0000 00000000000	Semiconductor	Q24,Q25,Q26,Q32,Q58,Q59,Q69,Q75		22.463360	8	4877097.849338
1315443512.0000 00000000000	Semiconductor	Q29		22.463360	1	31642600.748419
1315700216.0000 00000000000	Semiconductor	Q19,Q30,Q37,Q45,Q46,Q47,Q48,Q49,Q73,Q74,Q76		22.463360	11	3618924.681337
1315720010.0000 00000000000	Semiconductor	Q27,Q38,Q60		22.463360	3	12043329.789539
1315762010.0000 00000000000	Semiconductor	Q50		22.463360	1	31642600.748419
1315971500.0000 00000000000	Semiconductor	U26,U29		22.463360	2	17315095.066101
	Semiconductor	Q62,Q67		22.463360	2	17315095.066101
	Semiconductor	Q10,Q11,Q12,Q13,Q14,Q15,Q16,Q17,Q18,Q2,Q20,Q21,Q22,Q23,Q28,Q34,Q35,Q36,Q51,Q52,Q53,Q56,Q61,Q68,Q7,Q8		22.463360	26	1589867.643171
1430455200.0000 00000000000	Integrated Circuit	U12,U17,U25,U3,U6,U63,U71		43.803003	7	2408529.736257
1430532190.0000 00000000000	Integrated Circuit	U76		43.803003	1	11739202.588727
1430973740.0000 00000000000	Integrated Circuit	U10		43.803003	1	11739202.588727
	Integrated Circuit	U81		43.803003	1	11739202.588727
	Integrated Circuit	U55		43.803003	1	11739202.588727
	Integrated Circuit	U56		43.803003	1	11739202.588727
	Integrated Circuit	U30,U31		43.803003	2	6834791.244197
1490011840.0000 00000000000	Integrated Circuit	U43		43.803003	1	11739202.588727
	Integrated Circuit	U72		43.803003	1	11739202.588727
	Integrated Circuit	U57,U70		43.803003	2	6834791.244197
	Integrated Circuit	U37		43.803003	1	11739202.588727
	Integrated Circuit	U23		43.803003	1	11739202.588727

**Reliability Prediction
Summary**

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit	
1540722281.0000 00000000000	Integrated Circuit	U13,U19,U35 ,U69, U73,U74		43.803003	6	2750969.191556	
	Integrated Circuit	U79		43.803003	1	11739202.588727	
	Integrated Circuit	U21		43.803003	1	11739202.588727	
	Integrated Circuit	U8		43.803003	1	11739202.588727	
	Integrated Circuit	U40		43.803003	1	11739202.588727	
	Integrated Circuit	U28		43.803003	1	11739202.588727	
	Integrated Circuit	U36		43.803003	1	11739202.588727	
	Integrated Circuit	U65		43.803003	1	11739202.588727	
	Integrated Circuit	U14,U39,U64		43.803003	3	4923240.069161	
	Integrated Circuit	U45		43.803003	1	11739202.588727	
	Integrated Circuit	U54		43.803003	1	11739202.588727	
	Integrated Circuit	U75		43.803003	1	11739202.588727	
	Integrated Circuit	U53		43.803003	1	11739202.588727	
	Integrated Circuit	U20,U34		43.803003	2	6834791.244197	
	Integrated Circuit	U24,U47		43.803003	2	6834791.244197	
	Integrated Circuit	U4,U48		43.803003	2	6834791.244197	
	Integrated Circuit	U22,U49,U9		43.803003	3	4923240.069161	
	Integrated Circuit	U15,U59,U60		43.803003	3	4923240.069161	
	Integrated Circuit	U46,U51		43.803003	2	6834791.244197	
	Integrated Circuit	U41,U44		43.803003	2	6834791.244197	
	1430053250.0000 00000000000	Resistor	RP2		9.971436	1	51606907.671214
		Capacitor	C595		1.128806	1	704977644.692287
		Resistor	R839		2.547039	1	282340674.079668
Capacitor		C329,C330,C 650, C652		1.128806	4	196873384.410843	
Integrated Circuit		U27		43.803003	1	11739202.588727	
Integrated Circuit				43.803003	1	11739202.588727	
Integrated Circuit		U11,U50		43.803003	2	6834791.244197	
Capacitor		C101,C127,C 194, C195,C236,C 266, C323,C325,C 395, C428,C48,C4 84,C488, C531,C537,C 569, C596,C627		1.128806	18	46478509.590073	
Integrated Circuit		U67		43.803003	1	11739202.588727	
Capacitor		C396,C667,C 672		1.128806	3	257514172.353070	
Integrated Circuit	U66		43.803003	1	11739202.588727		
Integrated Circuit	U52		43.803003	1	11739202.588727		

**Reliability Prediction
Summary**

File Name: OMNI-5155-BT.rfp
Assembly: 9697BT030B-D
Ref Des:
Description:

Failure Rate: 8614.668540
MTBF (hrs): 116,081
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1181633191.0000 00000000000	Capacitor	C324		1.128806	1	704977644.692287