

NVR-6300S

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 9578.538608 ppm MTBF: 104,400 Hours
---------	--

Issue date	Approval	Test Engineer
2014/08/20	Tom Lin	Louie Lee

Reliability Prediction (MTBF)

I . Model Name: NVR-6300S

II . Prediction Date: August. 20th, 2014

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:

NVR-6300S (M/B: 9697630002-D):

- Failure Rate: 9578.538608 ppm

- MTBF: 104,400 Hours

**AAEON Reliability Prediction
Summary**

File Name: NVR-6300S.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
NVR-6300S	9697630002-D		1	9578.538608	104,400

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050500334	Resistor	R461,R626,R711		2.547039	3	107020754.986850
1050501004	Resistor	R243,R414,R544,R55,R553,R564		2.547039	6	56573956.677649
1050501054	Resistor	R316,R472,R694		2.547039	3	107020754.986850
1050501334	Resistor	R507		2.547039	1	282340674.079668
1050502204	Resistor	R172,R202,R285,R300,R329,R330,R331,R332,R348,R349		2.547039	10	35079934.879747
1050502224	Resistor	R123,R126,R153,R156,R182,R25,R361,R373,R380,R382,R383,R483,R50,R566,R648,R667,R681,R688,R693,R736,R737,R780,R781,R783,R785,R787,R8,R804		2.547039	28	13089488.559853
1050502234	Resistor	R236,R471,R807,R810		2.547039	4	82309758.689546
1050502724	Resistor	R209,R229		2.547039	2	154078778.388085
1050503324	Resistor	R1,R154,R24,R742,R77		2.547039	5	67008142.102588
1050504724	Resistor	R324,R470,R489,R537,R567,R6,R650,R682,R684,R690,R695,R715,R733,R758,R760,R790,R797,R88,R89,R90,R91		2.547039	21	17274945.076062
1050505164	Resistor	R245		2.547039	1	282340674.079668
1050505633	Resistor	R48		2.547039	1	282340674.079668
1050506224	Resistor	R22,R4,R65		2.547039	3	107020754.986850

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050507524	Resistor	R240,R278,R281, R306,R307		2.547039	5	67008142.102588
1050507530	Resistor	R502,R612		2.547039	2	154078778.388085
1050508224	Resistor	R183,R237,R248, R263,R274,R276, R277,R279,R280, R283,R303		2.547039	11	32049696.385471
1050510034	Resistor	R101,R103,R105, R107,R28,R29,R315, R328,R35,R51,R525, R679,R680,R723, R798		2.547039	15	23852782.943395
1050511009	Resistor	R443,R556		2.547039	2	154078778.388085
1050511034	Resistor	R602,R610,R617		2.547039	3	107020754.986850
1050512124	Resistor	R84,R85,R86,R87, R96,R97,R98,R99		2.547039	8	43225424.698300
1050515034	Resistor	R631		2.547039	1	282340674.079668
1050517414	Resistor	R614		2.547039	1	282340674.079668
1050518034	Resistor	R100,R102,R104, R106		2.547039	4	82309758.689546
1050524004	Resistor	R49		2.547039	1	282340674.079668
1050524904	Resistor	R110,R308,R353, R375,R75		2.547039	5	67008142.102588
1050524909	Resistor	R127,R431,R477		2.547039	3	107020754.986850
1050530004	Resistor	R294,R297,R305		2.547039	3	107020754.986850
1050531624	Resistor	R621		2.547039	1	282340674.079668
1050544264	Resistor	R441		2.547039	1	282340674.079668
1050549904	Resistor	R145,R174		2.547039	2	154078778.388085
1050549964	Resistor	R619		2.547039	1	282340674.079668
1050563420	Resistor	R230		2.547039	1	282340674.079668
1050564904	Resistor	R320		2.547039	1	282340674.079668
1050569824	Resistor	R503		2.547039	1	282340674.079668
1050582504	Resistor	R426		2.547039	1	282340674.079668
1050703334	Resistor	R407,R549,R563, R720,R738		2.547039	5	67008142.102588

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1059700001	Resistor	FB1,R757		2.547039	2	154078778.388085
105A500113	Resistor	R384,R444,R459, R462		2.547039	4	82309758.689546
105A500139	Resistor	R108,R109,R122, R124,R143,R151, R222,R231,R233,R26, R311,R33,R342,R398, R399,R403,R41,R415, R42,R457,R458,R460, R475,R493,R498, R560,R586,R587, R588,R589,R590, R606,R618,R622,R63, R632,R70,R71,R73, R752,R753,R754,R80, R81		2.547039	44	8443240.413160
105A500239	Resistor	R523		2.547039	1	282340674.079668
105A501003	Resistor	R44		2.547039	1	282340674.079668

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A501039	Resistor	R130,R131,R135, R138,R14,R140,R147, R148,R149,R150, R152,R159,R164, R166,R168,R169, R170,R171,R173, R175,R176,R188, R189,R190,R191, R194,R198,R200, R204,R206,R207, R208,R211,R212, R213,R215,R216, R217,R218,R219, R223,R224,R225, R226,R227,R249, R252,R254,R		2.547039	110	3445384.993979
105A501053	Resistor	R239		2.547039	1	282340674.079668
105A501539	Resistor	R2,R21,R605,R64, R712		2.547039	5	67008142.102588
105A501829	Resistor	R155		2.547039	1	282340674.079668
105A502039	Resistor	R377,R387,R394, R561,R562,R803, R808		2.547039	7	48991237.965885
105A502839	Resistor	R504		2.547039	1	282340674.079668
105A503039	Resistor	R728		2.547039	1	282340674.079668
105A503309	Resistor	R291,R292,R293, R295,R296,R340, R341,R37,R643,R661, R788,R795,R802		2.547039	13	27342571.921361
105A505109	Resistor	R411,R419,R421, R435		2.547039	4	82309758.689546
105A506829	Resistor	R750		2.547039	1	282340674.079668

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A506834	Resistor	R501,R58		2.547039	2	154078778.388085
105A507509	Resistor	R371,R548,R568, R765,R784,R794, R799,R806,R809		2.547039	9	38754445.632391
105A510009	Resistor	R23,R357,R364,R425, R430,R61,R7		2.547039	7	48991237.965885
105A510053	Resistor	R242		2.547039	1	282340674.079668
105A511313	Resistor	R45		2.547039	1	282340674.079668
105A515009	Resistor	R128,R317,R318, R319,R409,R700, R702,R703,R704		2.547039	9	38754445.632391
105A515413	Resistor	R39		2.547039	1	282340674.079668
105A522663	Resistor	R299		2.547039	1	282340674.079668
105A530113	Resistor	R649		2.547039	1	282340674.079668
105A536529	Resistor	R402		2.547039	1	282340674.079668
105A547513	Resistor	R495,R496,R497		2.547039	3	107020754.986850
105A549919	Resistor	R665		2.547039	1	282340674.079668
105A549969	Resistor	R372,R376,R420, R492		2.547039	4	82309758.689546
105A553629	Resistor	R52		2.547039	1	282340674.079668
105A554969	Resistor	R542		2.547039	1	282340674.079668
105A700003	Resistor	R30,R569,R581,R603, R629,R76		2.547039	6	56573956.677649

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A700009	Resistor	R116,R118,R121, R134,R136,R158, R160,R180,R185, R228,R234,R235, R246,R251,R286, R289,R301,R304,R31, R310,R321,R325, R333,R334,R337,R34, R347,R354,R360, R366,R367,R368, R374,R379,R386, R390,R393,R406, R418,R422,R43,R433, R436,R439,R442, R447,R448,R453, R45		2.547039	152	2506352.657723
105A70000A	Resistor	R476,R570,R597, R607,R627,R634, R651,R653,R663		2.547039	9	38754445.632391
105A700139	Resistor	R112,R113,R114, R115,R608		2.547039	5	67008142.102588
105A700203	Resistor	R111,R68		2.547039	2	154078778.388085
105A702263	Resistor	R359,R385,R434, R445,R449,R463		2.547039	6	56573956.677649
105A702269	Resistor	R585		2.547039	1	282340674.079668
105A703309	Resistor	R533,R543,R552, R574		2.547039	4	82309758.689546
105A703329	Resistor	R479,R480,R526, R527,R530,R550		2.547039	6	56573956.677649

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
105A705129	Resistor	R11,R17,R18 ,R46, R53,R801,R9		2.547039	7	48991237.965885
105A705609	Resistor	R417		2.547039	1	282340674.079668
105A710039	Resistor	R62		2.547039	1	282340674.079668
105A733009	Resistor	R509,R698		2.547039	2	154078778.388085
105A739039	Resistor	R178,R247		2.547039	2	154078778.388085
106B510034	Resistor	RT2		7.724580	1	66247589.526685
106BA01033	Resistor	R686,R724		2.547039	2	154078778.388085
106BA22034	Resistor	RT1		7.724580	1	66247589.526685
1121415090	Capacitor	C346		1.128806	1	704977644.692287
1124410191	Capacitor	C406,C418,C 424, C431,C437,C 441		1.128806	6	133979725.056342
1124418090	Capacitor	C167,C168		1.128806	2	375289731.076049
1124418190	Capacitor	C358,C359,C 360, C361,C362,C 364, C372,C380,C 401, C402,C407,C 412, C413,C414,C 415, C416,C419,C 420, C427,C430		1.128806	20	41950408.034165
1124427090	Capacitor	C214,C215		1.128806	2	375289731.076049
1124427091	Capacitor	C351,C356		1.128806	2	375289731.076049
1124456090	Capacitor	C341		1.128806	1	704977644.692287
1124468090	Capacitor	C169,C247		1.128806	2	375289731.076049
1124533280	Capacitor	C3,C39,C93		1.128806	3	257514172.353070
1129610051	Capacitor	C316		1.128806	1	704977644.692287
1129710091	Capacitor	C383,C384,C 385, C393,C394,C 395		1.128806	6	133979725.056342
1129710390	Capacitor	C330,C345		1.128806	2	375289731.076049
1129715090	Capacitor	C105,C106,C 107, C108		1.128806	4	196873384.410843
1129722091	Capacitor	C352,C353,C 387, C388,C389,C 426		1.128806	6	133979725.056342
1181610191	Capacitor	C436,C444		4.744484	2	86049450.747498

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1181627194	Capacitor	C178,C189,C241, C265,C349,C354,C37		4.744484	7	26949727.707925
1189610153	Capacitor	C453		4.744484	1	159663026.715137
1189656196	Capacitor	C1,C133,C165,C2, C256,C271,C273, C274,C275,C281, C284,C302,C312, C317,C321,C329,C33, C338,C343,C391, C392,C40,C73,C74		4.744484	24	8259052.143037
1189682199	Capacitor	C128,C160,C162,C80		4.744484	4	45505862.704531
11C1501080	Capacitor	C261		1.128806	1	704977644.692287
11C1510390	Capacitor	C246		1.128806	1	704977644.692287
11C1522390	Capacitor	C100,C129,C138, C202		1.128806	4	196873384.410843
11C1539840	Capacitor	C340		1.128806	1	704977644.692287
11C2410390	Capacitor	C291,C344		1.128806	2	375289731.076049

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11C4501790	Capacitor	C10,C11,C12 ,C13, C139,C14,C1 5,C16, C17,C18,C19 ,C20, C21,C22,C23 ,C24, C25,C26,C27 ,C28, C29,C30,C31 ,C375, C376,C377,C 378,C4, C43,C433,C4 4,C45, C46,C48,C49 ,C5,C50, C51,C52,C53 ,C54, C55,C57,C58 ,C59,C6, C60,C61,C62 ,C63, C64,C65,C66 ,C67, C68,C69,C7, C70,C71, C72		1.128806	63	13632557.733278
11C4512290	Capacitor	C332,C333		1.128806	2	375289731.076049
11C4522290	Capacitor	C347,C386,C 452		1.128806	3	257514172.353070
11C4547190	Capacitor	C318,C319,C 348, C374,C404,C 432		1.128806	6	133979725.056342
11E1501080	Capacitor	C446		1.128806	1	704977644.692287

**Reliability Prediction
Summary**

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E1510050	Capacitor	C103,C113,C114, C115,C116,C132, C135,C137,C146, C150,C163,C166, C175,C212,C216, C227,C242,C248, C250,C255,C258, C279,C282,C286, C287,C299,C315, C331,C366,C373,C38, C400,C41,C42,C421, C422,C423,C435, C440,C445,C447, C448,C47,C78,C85, C86,C87,C88,C94,C95,C		1.128806	51	16783130.571525
11E1522680	Capacitor	C239,C270,C295, C334,C76,C77		1.128806	6	133979725.056342

**Reliability Prediction
Summary**

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E2501690	Capacitor	BC10,BC100, BC101, BC102,BC10 3,BC104, BC105,BC10 6,BC107, BC108,BC10 9,BC11, BC110,BC11 1,BC112, BC113,BC11 4,BC115, BC116,BC11 7,BC118, BC119,BC12 0,BC121, BC122,BC12 3,BC124, BC125,BC12 6,BC127, BC128,BC12 9,BC130, BC131,BC13 2,BC133, BC134,BC13 5,BC136, BC137,BC13		1.128806	327	2672220.292797
11E9501090	Capacitor	C303,C367		1.128806	2	375289731.076049

**Reliability Prediction
Summary**

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9501091	Capacitor	C109,C110,C111, C118,C119,C122, C124,C125,C126, C127,C134,C136, C140,C141,C142, C143,C145,C147, C148,C149,C151, C152,C153,C154, C156,C157,C164, C171,C173,C174, C179,C180,C181, C182,C183,C184, C186,C187,C235, C238,C245,C251, C277,C293,C298, C325,C326,C327,		1.128806	63	13632557.733278

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9522490	Capacitor	C199,C200,C201, C213,C217,C228, C229,C233,C236, C237,C240,C243, C244,C249,C252, C257,C259,C260, C263,C264,C266, C276,C278,C280, C283,C285,C288, C290,C292,C296, C297,C301,C305, C308,C313,C399		1.128806	36	23624151.295955
11E9547680	Capacitor	C101,C112,C130, C131,C155,C230, C234,C403,C417, C425,C429,C479		1.128806	12	68856937.301178
11E9610080	Capacitor	C102,C144,C323, C324,C339,C355, C357,C84		1.128806	8	101746760.035398

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
11E9622050	Capacitor	C117,C120,C121, C123,C170,C172, C177,C190,C191, C192,C193,C194, C195,C196,C197, C198,C203,C204, C205,C206,C207, C208,C209,C210, C211,C218,C219, C220,C221,C222, C223,C224,C225, C226,C253,C254, C267,C268,C269, C272,C337,C350, C411,C450,C81,C82		1.128806	46	18574133.926778
121110100F	Inductor	L12		4.944252	1	154760964.143460
1211103671	Inductor	L15,L19,L6,L8		4.944252	4	43912872.424775
121110476P	Inductor	L24		4.944252	1	154760964.143460
1211105673	Inductor	L5	17.7	6.788254	1	112720756.186114
121230603Z	Inductor	FB18,FB20,FB21, FB22,FB25,FB27,FB29		4.944252	7	25970990.056682
1212308054	Inductor	FB10,FB11,FB12, FB13,FB14,FB6,FB8,FB9		4.944252	8	22874049.098230
12123C000C	Inductor	L29,L30,L31,L33, L34,L35		4.944252	6	30055900.223009
12123C0010	Inductor	FB15,FB16,FB17,FB2, FB23,FB24,FB28,FB3, FB4,FB5,FB7		4.944252	11	16872203.304846
1231120050	Miscellaneous	Y4		19.200000	1	23844262.770939
1231120050	Miscellaneous	Y1,Y2,Y3		19.200000	3	5742504.738137

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
123132505D	Miscellaneous	Y6,Y7,Y8		19.200000	3	5742504.738137
1231332721	Miscellaneous	Y5		19.200000	1	23844262.770939
12G15705007X	Connection	CN1,CN2,CN3,CN4,CN5,CN6,CN7,CN8,SATA1,SATA2,SATA3,SATA4,SATA5,SATA6		16.184835	14	3706226.037765
1300054040	Semiconductor	D51,D57,D58		7.793411	3	35106858.962001
1300414848	Semiconductor	D5		7.793411	1	92807310.010983
1300414849	Semiconductor	D59		7.793411	1	92807310.010983
1300581940	Semiconductor	D53		7.793411	1	92807310.010983
1301005450	Semiconductor	Q61		22.463360	1	31642600.748419
1301053040	Semiconductor	D25,D26,D27		7.793411	3	35106858.962001
1301400642	Semiconductor	D1,D2,D3,D4		7.793411	4	26989084.126235
1305040241	Semiconductor	D10,D11,D12,D13,D14,D15,D16,D34,D35,D36,D37,D41,D42,D43,D44,U27,U52		7.793411	17	6927243.833724
1305099140	Semiconductor	D32,D33,D38,D39,D40,D46,D47		7.793411	7	16052497.121446
1305100541	Semiconductor	D17,D18,D19,D20,D21,D22,D23,D24,D28,D29,D30,D31,D45,D48,D49,D50,D52,D54,D55,D56,D6,D7,D8,D9		7.793411	24	4971537.606722
1310390413	Semiconductor	Q15,Q31,Q35,Q37,Q39,Q40,Q47,Q49,Q51,Q56,Q9		22.463360	11	3618924.681337
1311390612	Semiconductor	Q57		22.463360	1	31642600.748419
1314043113	Semiconductor	VR1		22.463360	1	31642600.748419
1314108412	Semiconductor	U21	51.8	76.833557	1	9251154.738760
1314895510	Semiconductor	U23	19.3	37.198907	1	19108064.653534
1314895510	Semiconductor	U29		22.463360	1	31642600.748419
1315003090	Semiconductor	Q10		22.463360	1	31642600.748419

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1315003090	Semiconductor	Q11	12.7	31.523434	1	22548277.543274
1315034430	Semiconductor	Q13,Q27,Q48,Q55		22.463360	4	9270607.712006
1315076980	Semiconductor	Q8		22.463360	1	31642600.748419
1315190100	Semiconductor	U28,U45		22.463360	2	17315095.066101
1315200312	Semiconductor	Q29		22.463360	1	31642600.748419
1315230114	Semiconductor	Q50		22.463360	1	31642600.748419
1315686110	Semiconductor	U31,U35,U39,U46		22.463360	4	9270607.712006
1315700211	Semiconductor	Q1,Q14,Q16,Q17,Q19,Q2,Q21,Q22,Q23,Q24,Q26,Q28,Q3,Q30,Q36,Q38,Q4,Q58,Q60,Q62,Q63		22.463360	21	1952685.860459
1315700212	Semiconductor	Q59		22.463360	1	31642600.748419
1315703011	Semiconductor	Q12		22.463360	1	31642600.748419
1315703011	Semiconductor	Q18	31.1	49.203212	1	14446193.797559
1315S4C500	Semiconductor	Q32,Q42		22.463360	2	17315095.066101
1315S4C500	Semiconductor	Q44	31.3	49.428593	1	14380322.840605
1315S4C550	Semiconductor	Q33,Q34,Q41,Q45,Q46		22.463360	5	7551839.591592
1315S4C550	Semiconductor	Q43	35.8	54.703706	1	12993619.408063
1430811420	Integrated Circuit	U40		43.803003	1	11739202.588727
1430811460	Integrated Circuit	U26,U33		43.803003	2	6834791.244197
1430811460	Integrated Circuit	U30	34.8	398.819601	1	1289335.649991
143ALC8920	Integrated Circuit	U53		43.803003	1	11739202.588727
1440010610	Integrated Circuit	U5,U6,U8		43.803003	3	4923240.069161
1440010610	Integrated Circuit	U7	38.3	485.767472	1	1058556.528927
1440211AT0	Integrated Circuit	U42		43.803003	1	11739202.588727
1440217LM0	Integrated Circuit	U41	10.8	91.617456	1	5612602.154914
144082Q870	Integrated Circuit	U24	25.3	228.605561	1	2249343.048747
1462NV87A0	Integrated Circuit	U19	26.6	32.625578	1	19746172.379956
1469128350	Integrated Circuit			11.063278	1	58231413.220643
14S1035801	Integrated Circuit	U2	20.4	169.385027	1	3035760.239529
14S2750100	Integrated Circuit	U22		43.803003	1	11739202.588727
14S3121600	Integrated Circuit	U4		43.803003	1	11739202.588727
14S3780502	Integrated Circuit	U54		43.803003	1	11739202.588727
14S3902500	Integrated Circuit	U11	20	165.223215	1	3112228.085442
14S3902500	Integrated Circuit	U12,U13,U15		43.803003	3	4923240.069161
14S3E00100	Integrated Circuit	U49		43.803003	1	11739202.588727
14S3S00900	Integrated Circuit	U48		43.803003	1	11739202.588727
14S4081102	Integrated Circuit	U3		43.803003	1	11739202.588727
14S4519500	Integrated Circuit	U34		43.803003	1	11739202.588727
14S4872800	Integrated Circuit	U43		43.803003	1	11739202.588727

File Name: NVR-6300S.rfp
Assembly: 9697630002-D
Ref Des:
Description:

Failure Rate: 9578.538608
MTBF (hrs): 104,400
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
14S4963502	Integrated Circuit	U50		43.803003	1	11739202.588727
14S5912300	Integrated Circuit	U1		26.018600	1	25551442.237972
14S5A01430	Integrated Circuit	U37		26.018600	1	25551442.237972
14S5A23200	Integrated Circuit	U44,U51		26.018600	2	14194252.866846
14S9080900	Integrated Circuit	U32		43.803003	1	11739202.588727
14S9144200	Integrated Circuit	U47		43.803003	1	11739202.588727
1540782080	Resistor	RP2		9.971436	1	51606907.671214
1540782280	Resistor	RP1		9.971436	1	51606907.671214
16515C049A	Connection	DIMM1,DIM M3		16.184835	2	20390152.380746
16515C049B	Connection	DIMM2,DIM M4		16.184835	2	20390152.380746
1651611500	Connection	U25		16.184835	1	35685591.360212
1652517205	Connection	AUDIO1		16.184835	1	35685591.360212
1652822201	Connection	CN20,CN21		16.184835	2	20390152.380746
1653003100	Connection	COMS1		16.184835	1	35685591.360212
1653003101	Connection	JP1		16.184835	1	35685591.360212
1653004200	Connection	FP1,FP2		16.184835	2	20390152.380746
165300420L	Connection	CN13		16.184835	1	35685591.360212
1653004227	Connection	CN17		16.184835	1	35685591.360212
165300520E	Connection	USB2,USB3, USB4		16.184835	3	14515880.849373
165300522F	Connection	CN19		16.184835	1	35685591.360212
165320520Y	Connection	COM1,COM2		16.184835	2	20390152.380746
165321020D	Connection	USB1		16.184835	1	35685591.360212
1653212100	Connection	LPC1		16.184835	1	35685591.360212
1653300100	Connection	FP2(5-7)1		16.184835	1	35685591.360212
1653300101	Connection	COMS1(1-2) 1		16.184835	1	35685591.360212
1653300102	Connection	JP1(1-2)1		16.184835	1	35685591.360212
1654232203	Connection	CN15		16.184835	1	35685591.360212
165428220A	Connection	CN14		16.184835	1	35685591.360212
1654403031	Connection	USB5		16.184835	1	35685591.360212
1654434300	Connection	CN23		16.184835	1	35685591.360212
1654612307	Connection	CN22		16.184835	1	35685591.360212
1654910305	Connection	DP1		16.184835	1	35685591.360212
1655004018	Connection	CPU_FAN1,S YS_FAN1, SYS_FAN2		16.184835	3	14515880.849373
1655408023	Connection	ATX2		16.184835	1	35685591.360212
1655424022	Connection	ATX1		16.184835	1	35685591.360212
175011901H	Miscellaneous	BT1A1		306.000000	1	1681683.006787
1750220326	Connection	BT1		16.184835	1	35685591.360212
1752001101	Miscellaneous	FS1,FS4		2.400000	2	143944727.196625
1752002700	Miscellaneous	FS2,FS3		2.400000	2	143944727.196625