

# NANOCOM-SKU

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 9202,072523ppm MTBF: 108,671 Hours
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Issue date

QE Manager

Test Engineer

2016/11/08

KJ Wang

Mike Lee

# Reliability Prediction (MTBF)

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**I . Model Name:** NANOCOM-SKU

**II . Prediction Date:** Nov. 08, 2016

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

**IV . Predicted by:** Mike

**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:**

NANOCOM-SKU (9697NUSU0A-D):

- Failure Rate: 9202,072523ppm
- MTBF: 108,671 Hours

**AAEON Reliability Prediction  
Summary**

**File Name:** NANOCOM-SKU.rfp  
**Duty Cycle:** 100  
**Calculation Model:** Telcordia Issue 2  
**Method:** Method I Case 3

**Failure Rate:** 9202.072523  
**MTBF (hrs):** 108,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
NANOCOM-SKU	9697NUSU0A-D		1	9202.072523	108,671

**File Name:** NANOCOM-SKU.rfp  
**Assembly:** 9697NUSU0A-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 9202.072523  
**MTBF (hrs):** 108,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050501054.0000 00000000000	Capacitor	C1,C2,C298, C3,C307, C4,C5,C6,C7, C8		1.128806	10	82101057.548118
1050501634.0000 00000000000	Capacitor	C17,C197,C1 98,C279, C300,C301,C 302, C303,C304,C 305, C309,C392		1.128806	12	68856937.301178
1050502204.0000 00000000000	Capacitor	C155,C18,C1 9,C203, C25,C26,C27 ,C278, C28,C284,C2 85,C289, C29,C292,C2 94,C295, C296,C30,C3 06,C308, C31,C32,C33 ,C34, C35,C354,C3 6,C431, C432,C434,C 436,C45, C741,C742,C 755, C756		1.128806	36	23624151.295955
1050502224.0000 00000000000	Capacitor	C23		1.128806	1	704977644.692287
1050502724.0000 00000000000	Capacitor	C286,C333,C 351,C37, C519,C520,C 528, C529,C530,C 531, C533,C534,C 535, C536,C736		1.128806	15	55479656.844874

**Reliability Prediction  
Summary**

**File Name:** NANOCOM-SKU.rfp  
**Assembly:** 9697NUSU0A-D  
**Ref Des:**  
**Description:**

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**MTBF (hrs):** 108,671  
**Temperature:** 30  
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050503604.0000 00000000000	Capacitor	C101,C102,C103, C104,C105,C124, C133,C144,C145, C156,C157,C158, C159,C160,C161, C162,C163,C164, C165,C166,C167, C168,C169,C170, C171,C172,C173, C180,C181,C182, C183,C184,C185, C186,C187,C188, C189,C190,C191, C192,C193,C194, C195,C196,C199, C200,C202,C204,		1.128806	103	8394196.270524
1050504724.0000 00000000000	Capacitor	C39,C40,C43,C44		1.128806	4	196873384.410843
1050504734.0000 00000000000	Capacitor	C121,C122,C123, C371,C372,C439,C57, C58,C59,C60,C61, C62,C63,C64		1.128806	14	59316298.011235

**Reliability Prediction  
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**Assembly:** 9697NUSU0A-D  
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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050505124.0000 00000000000	Capacitor	C118,C119,C120, C126,C127,C128, C129,C130,C131, C132,C201,C288, C330,C331,C346, C370,C373,C441, C442,C443,C444,C65, C66,C737,C757,C758, C759,C77,C78,C79, C80,C81,C82,C83		1.128806	34	24984844.161172
1050505134.0000 00000000000	Capacitor	C100,C106,C107, C108,C109,C110, C111,C112,C113, C114,C115,C116, C117,C125,C134, C135,C136,C137, C138,C139,C140, C141,C142,C143, C146,C147,C148, C149,C150,C151, C152,C153,C154, C174,C175,C176, C177,C178,C179, C276,C342,C357, C358,C363,C367, C374,C438,C440,		1.128806	65	13219350.671625

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050505164.0000 00000000000	Capacitor	C271,C272,C 273, C274,C275,C 281, C323,C325,C 362		1.128806	9	90863428.080946
1050505604.0000 00000000000	Capacitor	C277,C379		1.128806	2	375289731.076049
1050507524.0000 00000000000	Capacitor	C280		1.128806	1	704977644.692287
1050507530.0000 00000000000	Capacitor	C283		1.128806	1	704977644.692287
1050508224.0000 00000000000	Capacitor	C287,C290		1.128806	2	375289731.076049
1050510034.0000 00000000000	Capacitor	C291,C293		1.128806	2	375289731.076049
1050510524.0000 00000000000	Capacitor	C297		1.128806	1	704977644.692287
1050512424.0000 00000000000	Capacitor	C317,C318,C 739		1.128806	3	257514172.353070
1050516014.0000 00000000000	Capacitor	C319		1.128806	1	704977644.692287
1050518034.0000 00000000000	Capacitor	C320		1.128806	1	704977644.692287
1050520004.0000 00000000000	Capacitor	C321,C322		1.128806	2	375289731.076049
1050521024.0000 00000000000	Capacitor	C324,C339,C 340, C352,C353		1.128806	5	159367490.199266
1050521524.0000 00000000000	Capacitor	C326,C336,C 341, C347		1.128806	4	196873384.410843
1050522004.0000 00000000000	Capacitor	C327,C328,C 335, C337,C355,C 356		1.128806	6	133979725.056342
1050522124.0000 00000000000	Capacitor	C332		1.128806	1	704977644.692287
1050524004.0000 00000000000	Capacitor	C334		1.128806	1	704977644.692287
1050524904.0000 00000000000	Capacitor	C338,C359		1.128806	2	375289731.076049
1050525524.0000 00000000000	Capacitor	C343,C361,C 740		1.128806	3	257514172.353070
1050526124.0000 00000000000	Capacitor	C344,C385		1.128806	2	375289731.076049
1050533034.0000 00000000000	Capacitor	C348,C735		1.128806	2	375289731.076049
1050536514.0000 00000000000	Capacitor	C364		1.128806	1	704977644.692287



**File Name:** NANOCOM-SKU.rfp  
**Assembly:** 9697NUSU0A-D  
**Ref Des:**  
**Description:**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050538314.0000 00000000000	Capacitor	C365		1.128806	1	704977644.692287
1050545324.0000 00000000000	Capacitor	C366,C408		1.128806	2	375289731.076049
1050545364.0000 00000000000	Capacitor	C377,C403		1.128806	2	375289731.076049
1050547004.0000 00000000000	Capacitor	C378,C384		1.128806	2	375289731.076049
1050549904.0000 00000000000	Capacitor	C380		1.128806	1	704977644.692287
1050549924.0000 00000000000	Capacitor	C381,C393		1.128806	2	375289731.076049
1050549964.0000 00000000000	Capacitor	C382,C391		1.128806	2	375289731.076049
1050551004.0000 00000000000	Capacitor	C383		1.128806	1	704977644.692287
1050560414.0000 00000000000	Capacitor	C386,C387		1.128806	2	375289731.076049
1050560424.0000 00000000000	Capacitor	C388		1.128806	1	704977644.692287
1050560464.0000 00000000000	Capacitor	C389,C396		1.128806	2	375289731.076049
1050564924.0000 00000000000	Capacitor	C390		1.128806	1	704977644.692287
1050580664.0000 00000000000	Capacitor	C394,C397		1.128806	2	375289731.076049
1050582034.0000 00000000000	Capacitor	C395		1.128806	1	704977644.692287
1050584524.0000 00000000000	Capacitor	C398,C402		1.128806	2	375289731.076049
1050701504.0000 00000000000	Capacitor	C399		1.128806	1	704977644.692287
1050704304.0000 00000000000	Capacitor	C400		1.128806	1	704977644.692287
1050708234.0000 00000000000	Capacitor	C401		1.128806	1	704977644.692287
1052500171.0000 00000000000	Capacitor	C404		1.128806	1	704977644.692287
1121501690.0000 00000000000	Capacitor	C405,C407,C 409		1.128806	3	257514172.353070
1121501691.0000 00000000000	Capacitor	C406		1.128806	1	704977644.692287
1121647780.0000 00000000000	Capacitor	C410		1.128806	1	704977644.692287

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1122522890.0000 00000000000	Capacitor	C411,C412,C 413, C414,C416,C 417, C423,C424,C 425, C426		1.128806	10	82101057.548118
1122568290.0000 00000000000	Capacitor	C418,C419,C 421, C428,C429		1.128806	5	159367490.199266
1124418090.0000 00000000000	Capacitor	C420,C422,C 430		1.128806	3	257514172.353070
1124433090.0000 00000000000	Semiconductor	D1,D11,D13, D14,D15, D16,D18,D2, D4,D5, D6,D9		7.793411	12	9662455.000384
1124433190.0000 00000000000	Semiconductor	D10		7.793411	1	92807310.010983
1124522290.0000 00000000000	Semiconductor	D12		7.793411	1	92807310.010983
1124533190.0000 00000000000	Inductor	FB1		4.944252	1	154760964.143460
1124547280.0000 00000000000	Optical Device	LED1		79.003355	1	6497172.749112
1124547290.0000 00000000000	Optical Device	LED2		79.003355	1	6497172.749112
1129622690.0000 00000000000	Inductor	L1		4.944252	1	154760964.143460
1129701690.0000 00000000000	Inductor	L2		4.944252	1	154760964.143460
1129701790.0000 00000000000	Inductor	L3		4.944252	1	154760964.143460
1129710390.0000 00000000000	Inductor	L4		4.944252	1	154760964.143460
1129710391.0000 00000000000	Inductor	L5	27.1	7.922507	1	96582710.451934
1129715090.0000 00000000000	Inductor	L6	29.9	8.281684	2	49671902.151639
1129715090.0000 00000000000	Inductor	L8		4.944252	2	83201062.149749
1129722091.0000 00000000000	Inductor	L7	34.4	8.879659	1	86171908.719444
1189633151.0000 00000000000	Semiconductor	Q1,Q17,Q2,Q 21,Q22, Q25,Q3,Q4,Q 7		22.463360	9	4366472.106532
1211101573.0000 00000000000	Semiconductor	Q10	19	36.925475	1	19249559.370542

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1211103376.0000 00000000000	Semiconductor	Q11	32.4	50.681836	2	7674449.869661
1211103376.0000 00000000000	Semiconductor	Q19		22.463360	2	17315095.066101
1211115073.0000 00000000000	Semiconductor	Q15	18.1	36.114192	1	19681989.124138
1211133075.0000 00000000000	Semiconductor	Q16		22.463360	1	31642600.748419
1231332726.0000 00000000000	Semiconductor	Q18	33.2	51.607887	2	7536739.719192
1231332726.0000 00000000000	Semiconductor	Q20		22.463360	2	17315095.066101
1301005447.0000 00000000000	Semiconductor	Q23,Q24		22.463360	2	17315095.066101
1301005450.0000 00000000000	Resistor	RP2,RP4		9.971436	2	30043399.401299
1301793040.0000 00000000000	Resistor	RP10,RP5,RP 6,RP7, RP8,RP9		9.971436	6	12090001.526571
1304001340.0000 00000000000	Resistor	RP11,RP12		9.971436	2	30043399.401299
1304300140.0000 00000000000	Resistor	RT1,RT2		2.547039	2	154078778.388085
1315009250.0000 00000000000	Resistor	RT3,RT4,RT6 ,RT7		2.547039	4	82309758.689546
1315492510.0000 00000000000	Resistor	RT5		2.547039	1	282340674.079668
1315700216.0000 00000000000	Resistor	R164,R193,R 230, R237,R238,R 342, R358,R359,R 489, R495,R496,R 505, R508,R527,R 536,R6		2.547039	16	22425139.809646
1315720010.0000 00000000000	Resistor	R7		2.547039	1	282340674.079668
1430006710.0000 00000000000	Resistor	R143,R194,R 8		2.547039	3	107020754.986850
1430082021.0000 00000000000	Resistor	R335,R9		2.547039	2	154078778.388085

**Reliability Prediction  
Summary**

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1430090590.0000 00000000000	Resistor	L10,L11,L12, L9,R10, R182,R195,R 196, R197,R198,R 199, R200,R202,R 203, R204,R206,R 207, R208,R220,R 221, R231,R234,R 235, R243,R257,R 263, R266,R270,R 278, R279,R305,R 307, R308,R309,R 313, R314,R315,R 317, R319,R320,R 325, R328,R331,R 332, R334,R352,R 360, R374,R375,R		2.547039	75	5016500.228829
1430455200.0000 00000000000	Resistor	R11,R18,R20 ,R23, R32		2.547039	5	67008142.102588
1430812460.0000 00000000000	Resistor	R137,R138,R 139, R140,R141,R 142,R16, R19,R21,R22		2.547039	10	35079934.879747

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Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1462001280.0000 00000000000	Resistor	R135,R136,R144, R185,R188,R189, R190,R24,R25,R26, R27,R28,R29,R30, R304,R31,R33,R34, R35,R36,R37,R373, R376,R379,R382, R389,R392,R400, R401,R404,R405, R415,R478,R479, R491,R494,R498, R500,R517,R542, R547,R563,R565, R566,R753,R754, R755,R756,R757, R758,R75		2.547039	62	6043178.840887
1540510380.0000 00000000000	Resistor	R394,R395,R41,R46, R47,R78,R82,R84, R85,R88,R89,R93, R94		2.547039	13	27342571.921361
1540700081.0000 00000000000	Resistor	R49,R75		2.547039	2	154078778.388085
1540736081.0000 00000000000	Resistor	R280,R424,R429, R437,R445,R450, R458,R53,R55,R56, R564		2.547039	11	32049696.385471

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1600000403.0000 00000000000	Resistor	R110,R111,R 127, R128,R158,R 159, R172,R176,R 178, R180,R183,R 403,R66, R788,R789,R 793, R794,R795,R 796		2.547039	19	19019185.781770
2099000040.0000 00000000000	Resistor	R70		2.547039	1	282340674.079668
	Resistor	R77,R81,R83		2.547039	3	107020754.986850
	Resistor	R96,R98		2.547039	2	154078778.388085
	Resistor	R100,R366,R 471, R474,R477,R 561, R578,R579,R 99		2.547039	9	38754445.632391
	Resistor	R101,R224,R 225, R455		2.547039	4	82309758.689546
	Resistor	R102,R103,R 562		2.547039	3	107020754.986850
	Resistor	R104,R112,R 113, R114,R115,R 277, R515,R531,R 533, R586		2.547039	10	35079934.879747
	Resistor	R105,R201		2.547039	2	154078778.388085
	Resistor	R106		2.547039	1	282340674.079668
	Resistor	R108,R430		2.547039	2	154078778.388085
	Resistor	R116,R129,R 131, R155,R168,R 211, R212,R214,R 219, R336,R338,R 339, R340,R341,R 347, R348,R351,R 372, R396,R399,R 467, R506		2.547039	22	16518584.576317
	Resistor	R118,R119,R 516		2.547039	3	107020754.986850

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	Resistor	R130,R132,R133, R134,R275,R785		2.547039	6	56573956.677649
	Resistor	R145,R146,R147, R148,R151,R152, R157,R160,R778		2.547039	9	38754445.632391
	Resistor	R162		2.547039	1	282340674.079668
	Resistor	R163,R187,R369, R390,R501,R514, R522,R524,R526, R528,R574,R786		2.547039	12	29507083.749401
	Resistor	R177		2.547039	1	282340674.079668
	Resistor	R179		2.547039	1	282340674.079668
	Resistor	R181,R186,R215, R453,R507		2.547039	5	67008142.102588
	Resistor	R191		2.547039	1	282340674.079668
	Resistor	R192		2.547039	1	282340674.079668
	Resistor	R209,R210,R223, R316,R367,R483, R513,R535		2.547039	8	43225424.698300
	Resistor	R218,R333,R353, R354,R377,R380, R408,R410,R411, R412,R413		2.547039	11	32049696.385471
	Resistor	R222		2.547039	1	282340674.079668
	Resistor	R228		2.547039	1	282340674.079668
	Resistor	R229		2.547039	1	282340674.079668
	Resistor	R232		2.547039	1	282340674.079668
	Resistor	R236,R250,R473		2.547039	3	107020754.986850
	Resistor	R281,R282,R583, R584		2.547039	4	82309758.689546
	Resistor	R283,R284,R585		2.547039	3	107020754.986850
	Resistor	R288,R291		2.547039	2	154078778.388085
	Resistor	R310,R311		2.547039	2	154078778.388085

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	Resistor	R321,R322,R323, R324,R326,R327, R329,R330,R355, R356,R433,R439, R452		2.547039	13	27342571.921361
	Resistor	R337		2.547039	1	282340674.079668
	Resistor	R343,R344		2.547039	2	154078778.388085
	Resistor	R345,R362		2.547039	2	154078778.388085
	Resistor	R346,R363,R364, R486		2.547039	4	82309758.689546
	Resistor	R357,R493		2.547039	2	154078778.388085
	Resistor	R361,R365		2.547039	2	154078778.388085
	Resistor	R368		2.547039	1	282340674.079668
	Resistor	R370,R432,R442, R460,R461,R550, R557,R761		2.547039	8	43225424.698300
	Resistor	R391		2.547039	1	282340674.079668
	Resistor	R423,R441		2.547039	2	154078778.388085
	Resistor	R426		2.547039	1	282340674.079668
	Resistor	R427		2.547039	1	282340674.079668
	Resistor	R428,R451,R503		2.547039	3	107020754.986850
	Resistor	R431		2.547039	1	282340674.079668
	Resistor	R435		2.547039	1	282340674.079668
	Resistor	R436		2.547039	1	282340674.079668
	Resistor	R440		2.547039	1	282340674.079668
	Resistor	R443,R572,R581, R776		2.547039	4	82309758.689546
	Resistor	R444		2.547039	1	282340674.079668
	Resistor	R447		2.547039	1	282340674.079668
	Resistor	R448		2.547039	1	282340674.079668
	Resistor	R454		2.547039	1	282340674.079668
	Resistor	R459		2.547039	1	282340674.079668
	Resistor	R465		2.547039	1	282340674.079668
	Resistor	R472,R476,R480, R577,R580		2.547039	5	67008142.102588
	Resistor	R481,R482		2.547039	2	154078778.388085
	Resistor	R487,R488,R569, R765		2.547039	4	82309758.689546
	Resistor	R490,R530		2.547039	2	154078778.388085
	Resistor	R492		2.547039	1	282340674.079668
	Resistor	R497,R520		2.547039	2	154078778.388085



File Name: NANOCOM-SKU.rfp  
 Assembly: 9697NUSU0A-D  
 Ref Des:  
 Description:

Failure Rate: 9202.072523  
 MTBF (hrs): 108,671  
 Temperature: 30  
 Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Resistor	R499,R521		2.547039	2	154078778.388085
	Resistor	R504		2.547039	1	282340674.079668
	Resistor	R509		2.547039	1	282340674.079668
	Resistor	R511		2.547039	1	282340674.079668
	Resistor	R512,R538,R539		2.547039	3	107020754.986850
	Resistor	R518,R548		2.547039	2	154078778.388085
	Resistor	R519		2.547039	1	282340674.079668
	Resistor	R523		2.547039	1	282340674.079668
	Resistor	R525		2.547039	1	282340674.079668
	Resistor	R529,R534,R537,R543,R551,R554, R558		2.547039	7	48991237.965885
	Resistor	R532		2.547039	1	282340674.079668
	Resistor	R540		2.547039	1	282340674.079668
	Resistor	R541		2.547039	1	282340674.079668
	Resistor	R544		2.547039	1	282340674.079668
	Resistor	R545,R549		2.547039	2	154078778.388085
	Resistor	R546		2.547039	1	282340674.079668
	Resistor	R740		2.547039	1	282340674.079668
	Resistor	R745		2.547039	1	282340674.079668
	Resistor	R751		2.547039	1	282340674.079668
	Resistor	R790		2.547039	1	282340674.079668
	Connection	SW1(1,2OFF)		16.184835	1	35685591.360212
	Integrated Circuit	U1	45.6	125.275809	1	4104641.867647
	Integrated Circuit	U2		43.803003	1	11739202.588727
	Integrated Circuit	U24,U29,U34,U4		43.803003	4	3879156.910661
	Integrated Circuit	U5,U7,U8		43.803003	4	3879156.910661
	Integrated Circuit	U6	38.3	485.767472	4	349794.361540
	Integrated Circuit	U10		43.803003	1	11739202.588727
	Integrated Circuit	U11	37.2	456.771666	1	1125753.559819
	Integrated Circuit	U13		43.803003	1	11739202.588727
	Integrated Circuit	U15		43.803003	1	11739202.588727
	Integrated Circuit	U19		43.803003	1	11739202.588727
	Integrated Circuit	U20		43.803003	1	11739202.588727
	Integrated Circuit	U21		43.803003	1	11739202.588727
	Integrated Circuit	U22,U37		43.803003	2	6834791.244197
	Integrated Circuit	U23	38.6	493.956104	1	1041008.149559
	Integrated Circuit	U25,U26,U27,U35, U36		43.803003	5	3214211.402100
	Integrated Circuit	U28	49.1	870.947146	1	590405.895434
	Integrated Circuit	U30,U32		43.803003	2	6834791.244197
	Miscellaneous	Y1		19.200000	1	23844262.770939
	Miscellaneous	Y2		19.200000	1	23844262.770939
	Miscellaneous	Y3		19.200000	1	23844262.770939

**Reliability Prediction  
Summary**

**File Name:** NANOCOM-SKU.rfp  
**Assembly:** 9697NUSU0A-D  
**Ref Des:**  
**Description:**

**Failure Rate:** 9202.072523  
**MTBF (hrs):** 108,671  
**Temperature:** 30  
**Environment:** GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
	Integrated Circuit	U16		43.803003	1	11739202.588727
	Integrated Circuit	U12		43.803003	1	11739202.588727