

Report NO. : 10I070013

IMBI-QM57

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 17.757972 ppm MTBF: 56,313 Hours
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Issue date	Approval	Test Engineer
2010/10/21	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-IMBI-QM57-A10

II . Prediction Date: Oct. 21, 2010

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

IV . Predicted by: Jessica Chou

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 22.6 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

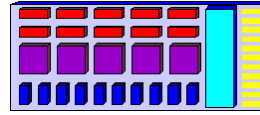
TF-IMBI-QM57-A10:

- Failure Rate: 17.757972 ppm

- MTBF: 56,313 Hours

AAEON Reliability Prediction Report

Part Number 9697QM5713-D
Reference Des
Date 10. 21, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.60



Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-IMBI-QM57-A10	9697QM5713-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	17.76	56312.74

AAEON Reliability Prediction Report

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Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1653204203	Connection	CN10	Telcordia Issue 1	Level I		1.00	0.004011	.0226	249302871.89
1653207205	Connection	CN8	Telcordia Issue 1	Level I		1.00	0.007020	.0395	142458783.93
1653206204	Connection	CN9	Telcordia Issue 1	Level I		1.00	0.006017	.0339	166201914.59
14S6206402	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
1121501690	Capacitor	BC1,BC10,BC100, BC101,BC102,BC104, BC105,BC106,BC107, BC108,BC109,BC11, BC110,BC111,BC112, BC113,BC114,BC115, BC116,BC117,BC118, BC119,BC12,BC120, BC122,BC123,BC124, BC125,BC126,BC127, BC128,BC129,BC13, BC130,BC131,BC132, BC133,BC134,BC1	Telcordia Issue 1	Level I		232.00	0.004325	5.6509	231192207.91
165392521J	Connection	CFD1	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
1214309006	Inductor	CM5,CM6,CM7,CM8,L1, L2,L3,L4	Telcordia Issue 1	Level I		8.00	0.002163	.0974	462384415.82
1653005202	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.125350	.7059	7977691.90
165300420L	Connection	CN3	Telcordia Issue 1	Level I		1.00	0.004011	.0226	249302871.89
1654030003	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.015042	.0847	66480765.84
1654226300	Connection	CN11A	Telcordia Issue 1	Level I		1.00	0.026073	.1468	38354287.98
165300320D	Connection	CN12	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
1654926900	Connection	CN11B	Telcordia Issue 1	Level I		1.00	0.026073	.1468	38354287.98
1653205201	Connection	COM3,COM4	Telcordia Issue 1	Level I		2.00	0.005014	.0565	199442297.51
1174518180	Capacitor	CP1,CP2,CP3,CP4, CP5,CP6,CP7,CP8, CP9	Telcordia Issue 1	Level I		9.00	0.005380	.2727	185876105.25
1124433190	Capacitor	C198,C3,C52	Telcordia Issue 1	Level I		3.00	0.004325	.0731	231192207.91

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Time 17:06
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MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1121701080	Capacitor	C110,C112,C134, C135,C136,C137,C14, C141,C142,C145, C146,C150,C151, C152,C154,C155, C159,C160,C161, C162,C163,C17,C181, C186,C187,C190, C191,C192,C193, C194,C196,C199, C201,C202,C203, C204,C205,C206,C21, C211,C212,C217,	Telcordia Issue 1	Level I		72.00	0.004325	1.7537	231192207.91
1129710390	Capacitor	C10,C180,C197,C23, C233,C242,C62,C75	Telcordia Issue 1	Level I		8.00	0.004325	.1949	231192207.91
1124410190	Capacitor	C15,C153	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1129701790	Capacitor	C113,C116,C117, C120,C121,C124, C125,C126,C127, C128,C129,C130, C131,C16,C166,C167, C168,C169,C170, C171,C173,C174, C175,C176,C177, C178,C179,C185,C19, C219,C22,C225,C226, C229,C263,C273,C33, C42,C85,C95	Telcordia Issue 1	Level I		40.00	0.004325	.9743	231192207.91
1124420090	Capacitor	C18,C84	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
11C1522480	Capacitor	C20,C234,C239,C244, C247,C248,C249, C254,C49,C51,C61, C74,C83,C86	Telcordia Issue 1	Level I		14.00	0.004325	.3410	231192207.91
1124433090	Capacitor	C25,C26	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1124418090	Capacitor	C43,C44,C72,C73	Telcordia Issue 1	Level I		4.00	0.004325	.0974	231192207.91
1129622050	Capacitor	C157,C158,C182, C183,C195,C200, C207,C210,C213, C214,C215,C216, C221,C227,C228,C45, C46,C53,C54,C55, C58,C59,C60,C63, C64,C65,C67,C68, C69	Telcordia Issue 1	Level I		29.00	0.004325	.7064	231192207.91
1121533480	Capacitor	C47	Telcordia Issue 1	Level I		1.00	0.004325	.0244	231192207.91

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File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1124539180	Capacitor	C48,C81	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1124515180	Capacitor	C236,C56	Telcordia Issue 1	Level I		2.00	0.005380	.0606	185876105.25
1124468090	Capacitor	C57,C79	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1124501780	Capacitor	C237,C82	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
11E2647650	Capacitor	C101,C102,C103, C104,C105,C11,C123, C144,C147,C156, C164,C165,C208, C209,C259,C284,C31,C7,C91,C94	Telcordia Issue 1	Level I		20.00	0.004325	.4872	231192207.91
1129522650	Capacitor	C111,C93,TC27,TC28, TC44	Telcordia Issue 1	Level I		5.00	0.004325	.1218	231192207.91
11E9647060	Capacitor	C96,C97	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1129710090	Capacitor	C106,C266,C267, C278,C279,C282, C283,C98,C99	Telcordia Issue 1	Level I		9.00	0.004325	.2192	231192207.91
1129722091	Capacitor	C100,C108,C109, C251	Telcordia Issue 1	Level I		4.00	0.004325	.0974	231192207.91
1124427090	Capacitor	C107,C256,C257, C260,C261,C270, C277,C280,C281	Telcordia Issue 1	Level I		9.00	0.004325	.2192	231192207.91
11E9522680	Capacitor	C122,C132,C133, C138,C139,C140, C143	Telcordia Issue 1	Level I		7.00	0.004325	.1705	231192207.91
1124547190	Capacitor	C149	Telcordia Issue 1	Level I		1.00	0.004325	.0244	231192207.91
1124533180	Capacitor	C245,C246	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
11C4533880	Capacitor	C250	Telcordia Issue 1	Level I		1.00	0.004325	.0244	231192207.91
1121610180	Capacitor	C285,C286,C287, C288,C289,C290	Telcordia Issue 1	Level I		6.00	0.004325	.1461	231192207.91
1124510280	Capacitor	C291,C292,C293	Telcordia Issue 1	Level I		3.00	0.004325	.0731	231192207.91
1121647480	Capacitor	C295,C296	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
16515A099G	Connection	DIMM2	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
165320520C	Connection	DIO1,USB3,USB4	Telcordia Issue 1	Level I		3.00	0.005014	.0847	199442297.51
1301005440	Semiconductor	D1,D10,D14,D27,D28, D29,D5,D9	Telcordia Issue 1	Level I		8.00	0.022277	1.0036	44889697.85
1301005442	Semiconductor	D13,D2	Telcordia Issue 1	Level I		2.00	0.022277	.2509	44889697.85
1301002240	Semiconductor	D15,D16,D17,D18,D6	Telcordia Issue 1	Level I		5.00	0.022277	.6272	44889697.85
1300001440	Semiconductor	D26,D7,D8	Telcordia Issue 1	Level I		3.00	0.022277	.3763	44889697.85
1301053040	Semiconductor	D11,D12	Telcordia Issue 1	Level I		2.00	0.022277	.2509	44889697.85
1301400642	Semiconductor	D47	Telcordia Issue 1	Level I		1.00	0.022277	.1254	44889697.85
1305100541	Semiconductor	D20,D21,D22,D23, D30,D31,D32,D33, D34,D35,D36,D37, D38,D39,D40,D41, D42,D43,D44,D45	Telcordia Issue 1	Level I		20.00	0.022277	2.5089	44889697.85

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File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1212306030	Inductor	FB1,FB2,FB20,FB3,FB33,FB34,FB35,FB36,FB37,FB38,FB4,FB5,FB6	Telcordia Issue 1	Level I		13.00	0.002163	.1583	462384415.82
12123C0005	Inductor	FB10,FB11,FB12,FB7,FB8,FB9	Telcordia Issue 1	Level I		6.00	0.002163	.0731	462384415.82
121230603Z	Inductor	FB14,FB15,FB16,FB17,FB18,FB19	Telcordia Issue 1	Level I		6.00	0.002163	.0731	462384415.82
12123C0007	Inductor	FB29	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1212308054	Inductor	FB32	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1752001601	Miscellaneous	FS1,FS2,FS3,FS4,FS6,FS7,FS8,FS9	Telcordia Issue 1	Level I		8.00	0.003000	.1352	333333333.33
1752011000	Miscellaneous	FS10,FS11,FS5	Telcordia Issue 1	Level I		3.00	0.003000	.0507	333333333.33
1211105673	Inductor	L17	Telcordia Issue 1	Level I		1.00	0.082183	.4628	12168010.94
1211105673	Inductor	L5	Telcordia Issue 1	Level I	34.80	1.00	0.152778	.8603	6545460.64
1211101064	Inductor	L6	Telcordia Issue 1	Level I	20.00	1.00	0.119343	.6721	8379227.67
1211103671	Inductor	L10,L14,L15	Telcordia Issue 1	Level I		3.00	0.082183	1.3884	12168010.94
1211103671	Inductor	L16	Telcordia Issue 1	Level I	28.80	1.00	0.138597	.7805	7215158.81
1211101002	Inductor	L12,L13	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
1211100160	Inductor	L19	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1310390410	Semiconductor	Q1,Q14,Q26,Q27,Q31,Q39,Q44,Q73,Q8	Telcordia Issue 1	Level I		9.00	0.022277	1.1290	44889697.85
1315700217	Semiconductor	Q10,Q100,Q101,Q102,Q11,Q12,Q16,Q19,Q2,Q23,Q24,Q25,Q29,Q3,Q30,Q35,Q42,Q43,Q46,Q47,Q54,Q55,Q57,Q58,Q59,Q61,Q62,Q63,Q64,Q65,Q69,Q70,Q71,Q72,Q83,Q84,Q85,Q94,Q95,Q96,Q97,Q98,Q99	Telcordia Issue 1	Level I		43.00	0.074256	17.9807	13466909.36
1315R30310	Integrated Circuit	Q17	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
1315889612	Semiconductor	Q20,Q32,Q40,Q41,Q49,Q51	Telcordia Issue 1	Level I		6.00	0.074256	2.5089	13466909.36
1315888010	Semiconductor	Q21,Q36,Q50,Q52,Q87	Telcordia Issue 1	Level I		5.00	0.074256	2.0908	13466909.36
1315888010	Semiconductor	Q48	Telcordia Issue 1	Level I	18.60	1.00	0.123796	.6971	8077816.03
1315441012	Semiconductor	Q22,Q33,Q34,Q86	Telcordia Issue 1	Level I		4.00	0.074256	1.6726	13466909.36
14S3524700	Integrated Circuit	Q37	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
1315230511	Semiconductor	Q38	Telcordia Issue 1	Level I		1.00	0.074256	.4182	13466909.36
1311390610	Semiconductor	Q45	Telcordia Issue 1	Level I		1.00	0.022277	.1254	44889697.85
1311138610	Semiconductor	Q56,Q60	Telcordia Issue 1	Level I		2.00	0.022277	.2509	44889697.85

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Environment GF, GU - Ground Fixed, Uncontrolled
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File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1315667910	Semiconductor	Q74,Q75,Q76,Q79	Telcordia Issue 1	Level I		4.00	0.148512	3.3453	6733454.68
1315050311	Integrated Circuit	Q78	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
1540710280	Resistor	RP1,RP2,RP6	Telcordia Issue 1	Level I		3.00	0.005592	.0945	178830855.49
1540733085	Resistor	RP16,RP17,RP18, RP19,RP20,RP21, RP22,RP23,RP3,RP4, RP5,RP7,RP8	Telcordia Issue 1	Level I		13.00	0.005592	.4094	178830855.49
1540782282	Resistor	RP10,RP11,RP12, RP13,RP9	Telcordia Issue 1	Level I		5.00	0.011184	.3149	89415427.75
1540747282	Resistor	RP14	Telcordia Issue 1	Level I		1.00	0.005592	.0315	178830855.49
1540756080	Resistor	RP15	Telcordia Issue 1	Level I		1.00	0.005592	.0315	178830855.49
106B501032	Resistor	RT1,RT2,RT3,RT4, RT6	Telcordia Issue 1	Level I		5.00	0.010028	.2824	99721148.75
106B747030	Resistor	RT5	Telcordia Issue 1	Level I		1.00	0.010028	.0565	99721148.75
105A704729	Resistor	R1,R169,R23,R301, R334,R336,R349, R454,R467,R51,R55, R551,R557,R567, R569,R841	Telcordia Issue 1	Level I		16.00	0.002163	.1949	462384415.82
105A503309	Resistor	R247,R251,R255,R3, R355,R46,R541,R64, R65,R68,R69,R70, R85,R86,R90,R91	Telcordia Issue 1	Level I		16.00	0.002163	.1949	462384415.82
105A701039	Resistor	R105,R106,R107, R119,R128,R140, R162,R163,R164, R165,R166,R168, R172,R173,R174, R193,R198,R199, R269,R270,R319,R32, R359,R361,R365, R382,R4,R424,R425, R43,R437,R504,R523, R524,R535,R536, R542,R546,R549,R58, R59,R590,R591,R	Telcordia Issue 1	Level I		84.00	0.002163	1.0230	462384415.82
105A733003	Resistor	R11,R12,R5,R560,R6, R884	Telcordia Issue 1	Level I		6.00	0.002163	.0731	462384415.82
105A510009	Resistor	R158,R160,R170, R171,R22,R322,R323, R400,R44,R8	Telcordia Issue 1	Level I		10.00	0.002163	.1218	462384415.82
105A703329	Resistor	R14,R857	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A501539	Resistor	R15,R380	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
1050506224	Resistor	R16,R381	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A705129	Resistor	R17,R20,R398,R406	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1059700001	Resistor	R133,R148,R31,R330, R370,R378,R417,R53, R595,R60,R657,R662, R682,R726,R740, R786,R789,R832, R860,R861,R871, R878,R879	Telcordia Issue 1	Level I		23.00	0.002163	.2801	462384415.82
105A514733	Resistor	R500,R79,R836	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A510033	Resistor	R100,R492,R501, R508,R80	Telcordia Issue 1	Level I		5.00	0.002163	.0609	462384415.82
105A524923	Resistor	R498,R88	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A701003	Resistor	R275,R730,R92	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A524033	Resistor	R99	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A702209	Resistor	R102,R126,R127, R332,R333,R526, R543,R544,R771	Telcordia Issue 1	Level I		9.00	0.002163	.1096	462384415.82
1050510034	Resistor	R104,R114,R117, R154,R157,R205, R217,R272,R345, R516,R564,R589, R748,R752,R763, R764,R772,R781, R839	Telcordia Issue 1	Level I		19.00	0.002163	.2314	462384415.82
105A701053	Resistor	R116,R132,R828	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A727033	Resistor	R120,R124,R902, R916	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A715033	Resistor	R121,R125,R901, R931	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A700003	Resistor	FB13,FB30,FB31, FB41,FB42,FB49, FB50,R123,R147, R299,R325,R326, R353,R354,R367, R461,R522,R587, R676,R862,R870, R929,R939,R981	Telcordia Issue 1	Level I		24.00	0.002163	.2923	462384415.82
1050505604	Resistor	R143	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A500139	Resistor	R149,R150,R218, R234,R242,R262, R266,R267,R277, R486,R487,R509, R511,R593,R784, R961	Telcordia Issue 1	Level I		16.00	0.002163	.1949	462384415.82
1050520004	Resistor	R151,R194,R195, R196,R233,R249, R265	Telcordia Issue 1	Level I		7.00	0.002163	.0853	462384415.82
105A700133	Resistor	R152,R364,R376, R403,R439,R440, R441,R442	Telcordia Issue 1	Level I		8.00	0.002163	.0974	462384415.82

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Date 10. 21, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.60



Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A702033	Resistor	R155,R156,R179	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
1050524904	Resistor	R161	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1050701504	Resistor	R175	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A513003	Resistor	R176	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A532463	Resistor	R178	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A708229	Resistor	R180,R363,R368, R605,R858,R864, R969	Telcordia Issue 1	Level I		7.00	0.002163	.0853	462384415.82
105A549969	Resistor	R207,R268,R681, R705,R742	Telcordia Issue 1	Level I		5.00	0.002163	.0609	462384415.82
105A533033	Resistor	R209	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A710053	Resistor	R212	Telcordia Issue 1	Level I		1.00	0.012976	.0731	77064069.30
1059704761	Resistor	R220	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1059702261	Resistor	R221,R303,R331, R833	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A556203	Resistor	R228,R327	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A702263	Resistor	R240,R942,R943, R944	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A522663	Resistor	R241	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A541233	Resistor	R245,R831	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
1050519114	Resistor	R252,R256	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A580613	Resistor	R253,R314	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A502003	Resistor	R254,R261	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A705103	Resistor	R271,R273	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
1050502224	Resistor	R279	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A526113	Resistor	R286,R845	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A505109	Resistor	R292	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A704709	Resistor	R294	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A515009	Resistor	R295,R296,R297, R412,R413,R414	Telcordia Issue 1	Level I		6.00	0.002163	.0731	462384415.82
105A502033	Resistor	R304,R868,R875	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A705133	Resistor	R1024,R1025,R315, R324	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A524913	Resistor	R328	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A582563	Resistor	R329,R702	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A747003	Resistor	R335,R348	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A501039	Resistor	R343,R350	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A540213	Resistor	R352	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A533213	Resistor	R362,R477	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A707509	Resistor	R407,R415,R416	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A549913	Resistor	R408,R899,R932	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82

AAEON Reliability Prediction Report

Part Number 9697QM5713-D
Reference Des
Date 10. 21, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.60



Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A715009	Resistor	R419,R420,R427, R430,R431,R433, R434,R903	Telcordia Issue 1	Level I		8.00	0.002163	.0974	462384415.82
105A733009	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A707503	Resistor	R443,R444	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
1050502204	Resistor	R445,R446,R447, R448	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A706823	Resistor	R459,R460	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A501333	Resistor	R476,R496	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A701033	Resistor	R493,R494	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A512103	Resistor	R481	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A520003	Resistor	R482	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A703303	Resistor	R485,R507	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A500233	Resistor	R499,R518	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A747033	Resistor	R519	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A708209	Resistor	R527,R545,R550	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A503033	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A506823	Resistor	R533,R534	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A747009	Resistor	R1020,R1021,R558, R987,R989,R990, R991	Telcordia Issue 1	Level I		7.00	0.002163	.0853	462384415.82
105A705623	Resistor	R561	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1050564924	Resistor	R582,R584	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A501233	Resistor	R586	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105270000A	Resistor	R601,R622	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A705603	Resistor	R608	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A554963	Resistor	R623	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A530113	Resistor	R636,R866,R867	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A501123	Resistor	R638	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A501523	Resistor	R687,R697	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A501133	Resistor	R600,R696,R844	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82
105A502133	Resistor	R700	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A536513	Resistor	R701,R837,R846, R856	Telcordia Issue 1	Level I		4.00	0.002163	.0487	462384415.82
105A575003	Resistor	R709,R737	Telcordia Issue 1	Level I		2.00	0.002163	.0244	462384415.82
105A537463	Resistor	R712	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A706803	Resistor	R736	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A504733	Resistor	R741	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A590963	Resistor	R745	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A523713	Resistor	R761	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
105A700103	Resistor	R826,R827,R835	Telcordia Issue 1	Level I		3.00	0.002163	.0365	462384415.82

AAEON Reliability Prediction Report

Part Number 9697QM5713-D
Reference Des
Date 10. 21, 2010
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.60



Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129610080	Capacitor	TC100,TC101,TC102,TC103,TC104,TC105,TC106,TC107,TC108,TC109,TC110,TC111,TC117,TC126,TC37,TC38,TC39,TC41,TC42,TC43,TC46,TC47,TC48,TC54,TC55,TC56,TC75,TC78,TC79,TC80,TC81,TC83,TC84,TC86,TC87,TC89,TC90,TC91,TC92,	Telcordia Issue 1	Level I		44.00	0.004325	1.0717	231192207.91
11C2510190	Capacitor	TC112,TC113,TC134,TC139,TC145,TC146,TC58,TC63,TC64, TC76	Telcordia Issue 1	Level I		10.00	0.004325	.2436	231192207.91
1189622150	Capacitor	TC121,TC122	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1142522080	Capacitor	TC140,TC141,TC144	Telcordia Issue 1	Level I		3.00	0.004325	.0731	231192207.91
1149610180	Capacitor	TC152,TC155	Telcordia Issue 1	Level I		2.00	0.004325	.0487	231192207.91
1189610151	Capacitor	TC168,TC169,TC170,TC171,TC172	Telcordia Issue 1	Level I		5.00	0.004325	.1218	231192207.91
14S4BD8200	Integrated Circuit	U2	Telcordia Issue 1	Level I	21.60	1.00	0.075600	.4257	13227427.32
14S4036800	Integrated Circuit	U4	Telcordia Issue 1	Level I	21.20	1.00	0.216466	1.2190	4619666.35
14S4878100	Integrated Circuit	U5	Telcordia Issue 1	Level I	26.10	1.00	0.095171	.5359	10507376.69
14S3050500	Integrated Circuit	U6	Telcordia Issue 1	Level I	22.60	1.00	0.236904	1.3341	4221110.93
14S5A00401	Integrated Circuit	U50,U7	Telcordia Issue 1	Level I		2.00	0.022711	.2558	44030961.08
14S2048800	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.026809	.1510	37301086.71
14S5A00821	Integrated Circuit	U10,U13,U36,U37,U38,U40,U41,U42, U43,U44,U53	Telcordia Issue 1	Level I		11.00	0.022711	1.4068	44030961.08
14S4288100	Integrated Circuit	U11	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
1314108412	Integrated Circuit	U12	Telcordia Issue 1	Level I	29.90	1.00	0.374480	2.1088	2670371.43
1314108412	Integrated Circuit	U32	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S4288300	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S2041200	Integrated Circuit	U15	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S6308001	Integrated Circuit	U16	Telcordia Issue 1	Level I		1.00	0.030062	.1693	33265068.25
14S4048502	Integrated Circuit	U17,U21	Telcordia Issue 1	Level I		2.00	0.049736	.5602	20106287.25
14S3088801	Integrated Circuit	U18	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S4825740	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
14S4257701	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08

AAEON Reliability Prediction Report

Part Number 9697QM5713-D
Reference Des
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Description Top-level assembly
File Name TF-IMBI-QM57-A10.RPJ
Time 17:06
Failure Rate 17.757972
MTBF 56,313

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
14S2200900	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S3052400	Integrated Circuit	U23,U24,U26,U30	Telcordia Issue 1	Level I		4.00	0.049736	1.1203	20106287.25
14S9144200	Integrated Circuit	U25,U27	Telcordia Issue 1	Level I		2.00	0.022711	.2558	44030961.08
14S4021301	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S5A23200	Integrated Circuit	U58	Telcordia Issue 1	Level I	34.80	1.00	0.145908	.8216	6853620.26
14S5A23200	Integrated Circuit	U59	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
14S5A23200	Integrated Circuit	U29	Telcordia Issue 1	Level I	23.40	1.00	0.082957	.4672	12054368.79
14S4195710	Integrated Circuit	U34,U55	Telcordia Issue 1	Level I		2.00	0.049736	.5602	20106287.25
14S5812300	Integrated Circuit	U35	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
14S2047500	Integrated Circuit	U47	Telcordia Issue 1	Level I		1.00	0.049736	.2801	20106287.25
14S9661200	Integrated Circuit	U49	Telcordia Issue 1	Level I	33.50	1.00	0.465850	2.6233	2146615.05
14S5A12506	Integrated Circuit	U51	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
14S5812502	Integrated Circuit	U52	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
14S5A00702	Integrated Circuit	U56,U60,U61	Telcordia Issue 1	Level I		3.00	0.049736	.8402	20106287.25
14S5A00703	Integrated Circuit	U57	Telcordia Issue 1	Level I		1.00	0.022711	.1279	44030961.08
123131435F	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	.8447	6666666.67
1231332722	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	.8447	6666666.67
1231325058	Miscellaneous	Y3,Y4,Y5	Telcordia Issue 1	Level I		3.00	0.150000	2.5341	6666666.67
1651609880	Connection	U1	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
1124568280	Capacitor	C189	Telcordia Issue 1	Level I		1.00	0.004325	.0244	231192207.91
11C2568880	Capacitor	C188	Telcordia Issue 1	Level I		1.00	0.004325	.0244	231192207.91
105A510523	Resistor	R237	Telcordia Issue 1	Level I		1.00	0.002163	.0122	462384415.82
1315700211	Semiconductor	Q15	Telcordia Issue 1	Level I		1.00	0.074256	.4182	13466909.36
1655404020	Connection	ATX1	Telcordia Issue 1	Level I		1.00	0.002006	.0113	498605743.77
1655424020	Connection	ATX2	Telcordia Issue 1	Level I		1.00	0.012034	.0678	83100957.30
1750220323	Connection	BAT1	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
175910000B	Miscellaneous	BZ1	Telcordia Issue 1	Level I		1.00	0.150000	.8447	6666666.67
1653003100	Connection	CMOS1,JP7	Telcordia Issue 1	Level I		2.00	0.001504	.0169	664807658.36
1654439501	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.019555	.1101	51139050.64
1655305020	Connection	CN4	Telcordia Issue 1	Level I		1.00	0.002507	.0141	398884595.02
1653004100	Connection	CN6	Telcordia Issue 1	Level I		1.00	0.002006	.0113	498605743.77
1654434300	Connection	CN7	Telcordia Issue 1	Level I		1.00	0.001003	.0056	997211487.54
1169656132	Capacitor	EC1,EC2	Telcordia Issue 1	Level I		2.00	0.005380	.0606	185876105.25
1119647191	Capacitor	EC4,EC8	Telcordia Issue 1	Level I		2.00	0.062675	.7059	15955383.80
1112633191	Capacitor	EC11,EC9	Telcordia Issue 1	Level I		2.00	0.037605	.4235	26592306.33
1169682192	Capacitor	EC10	Telcordia Issue 1	Level I		1.00	0.005380	.0303	185876105.25

