

ISO-9001 Certified
ISO-14000 Certified
ISO-17025 Certified
ADVANTECH CO., LTD.

QA Test Report

ARK-6320-6M01E

(Reliability Prediction)

Report No :10R015A0

Report Date : February, 2 , 2010

	<hr/> <i>Y. Z. Huang</i>	<hr/> <i>Lily Huang</i>	<hr/> <i>Meei Chou</i>
Issue Stamp	Manager of QA Department	Approval	Test Engineer

台北市內湖區瑞光路 26 巷 20 弄 1 號 5 樓 QA_LAB
QA_LAB, 5F, No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei, Taiwan 114, R.O.C.

TEL: 886-2-2792-7818 FAX: 886-2-2794-7305

www.advantech.com

Reliability Prediction

I. Date: 2010/2/2

II. Model Name: ARK-6320-6M01E

III. Revision: N/A

IV. Description: ARK-6320-6M01E ES sample

**V. Equipment: Bellcore Calculation Method:
Telcordia Issue 2 ; Method I Case 3.**

VI: Prediction Result 1: GB, GC - Ground Benign, Controlled

.Environment :GB

.Temperature : 30°C

.Quality: Level II

.Stress :50%

.Failure Rate : 6,562.011957 FITs

.MTBF : 152,392 hours.

Reliability Prediction

VII. Prediction Result 2: GF, GU - Ground Fixed, Uncontrolled

.Environment :GF
.Temperature :30°C
.Quality :Level II
.Stress :50%
.Failure Rate : 8,021.606384 FITs.
.MTBF : 124,663 hours.

VIII. Index:
A. Failure Rate & Assembly MTBF
B. Part Failure List



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 6562.011957
MTBF (hrs): 152,392
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1655000162	Connection		0.122612	1	0.199811
1655001373	Connection		0.490450	1	0.799244
1000000140	Resistor		0.424506	1	0.590303
105A515013	Resistor		0.424506	2	1.081698
105A515423	Resistor		0.424506	1	0.590303
105A516913	Resistor		0.424506	1	0.590303
105A747009	Resistor		0.424506	2	1.081698
1121510490	Capacitor		0.188134	2	0.444101
1304002267	Optical Device		0.378027	2	0.921548
1304440010	Optical Device		0.378027	1	0.495892
1315700210	Semiconductor		3.743893	1	5.267161
14S1039300	Integrated Circuit		2.508538	1	4.878409
1600000031	Switching Device		4.720577	1	8.028918
1960046526N001	(BY VENDOR)		5076.657530	1	5076.657530
1000000153	Resistor		0.424506	6	2.945996
1000000164	Resistor		0.424506	3	1.557330
1000000177	Resistor		0.424506	3	1.557330
1000000202	Resistor		0.424506	2	1.081698
1000000282	Resistor		0.424506	1	0.590303
1000000619	Resistor		0.424506	1	0.590303
1000000648	Resistor		0.424506	1	0.590303
1000000719	Resistor		0.424506	2	1.081698
1000000752	Resistor		0.424506	2	1.081698
1000000757	Resistor		0.424506	1	0.590303
1000000766	Resistor		0.424506	1	0.590303
1000000772	Resistor		0.424506	2	1.081698
1000000861	Resistor		0.424506	1	0.590303
1000000972	Resistor		0.424506	1	0.590303
1000001732	Resistor		0.332381	1	0.645908
1000001912	Resistor		0.332381	2	1.109506
1000001937	Resistor		0.424506	1	0.590303
1000001943	Resistor		0.424506	2	1.081698
1000001949	Resistor		0.424506	3	1.557330
1000001950	Resistor		0.424506	1	0.590303
1000003452	Resistor		0.332381	3	1.540405
1000004854	Resistor		0.332381	2	1.109506
1000005358	Resistor		0.332381	1	0.645908
1000006040	Resistor		0.332381	1	0.645908
105A50103A	Resistor		0.424506	7	3.401969
105A50200B	Resistor		0.424506	1	0.590303
105A50330A	Resistor		0.424506	48	21.484877
105A510004	Resistor		0.424506	11	5.200257
105A510014	Resistor		0.424506	19	8.763081
105A510033	Resistor		0.424506	2	1.081698
105A515004	Resistor		0.424506	6	2.945996
105A515013	Resistor		0.424506	1	0.590303
105A520003	Resistor		0.424506	3	1.557330
105A520014	Resistor		0.424506	2	1.081698



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 6562.011957
MTBF (hrs): 152,392
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
105A520033	Resistor		0.424506	1	0.590303
105A52266B	Resistor		0.424506	1	0.590303
105A523713	Resistor		0.424506	1	0.590303
105A530004	Resistor		0.424506	2	1.081698
105A538310	Resistor		0.424506	1	0.590303
105A549964	Resistor		0.424506	1	0.590303
105A556264	Resistor		0.424506	2	1.081698
105A55900B	Resistor		0.332381	1	0.645908
105A563413	Resistor		0.424506	1	0.590303
105A56650A	Resistor		0.424506	1	0.590303
105A575004	Resistor		0.424506	1	0.590303
105A575033	Resistor		0.332381	1	0.645908
105A700004	Resistor		0.332381	46	17.361015
105A700009	Resistor		0.332381	1	0.645908
105A700109	Resistor		0.424506	4	2.024871
105A701004	Resistor		0.424506	2	1.081698
105A701009	Resistor		0.424506	4	2.024871
105A702704	Resistor		0.424506	1	0.590303
105A70390A	Resistor		0.424506	3	1.557330
105A70470A	Resistor		0.424506	27	12.293100
105A706809	Resistor		0.424506	1	0.590303
105A708233	Resistor		0.424506	1	0.590303
105A710014	Resistor		0.424506	33	14.927889
105A710024	Resistor		0.424506	57	25.404901
105A710029	Resistor		0.424506	5	2.487260
105A710034	Resistor		0.424506	8	3.855755
105A710044	Resistor		0.424506	3	1.557330
105A710059	Resistor		0.998839	1	1.396927
105A715004	Resistor		0.424506	1	0.590303
105A715029	Resistor		0.424506	5	2.487260
105A715039	Resistor		0.424506	1	0.590303
105A720004	Resistor		0.424506	8	3.855755
105A720024	Resistor		0.424506	2	1.081698
105A722014	Resistor		0.424506	7	3.401969
105A722024	Resistor		0.424506	2	1.081698
105A722064	Resistor		0.424506	3	1.557330
105A727014	Resistor		0.424506	1	0.590303
105A727033	Resistor		0.424506	1	0.590303
105A73301A	Resistor		0.424506	2	1.081698
105A739014	Resistor		0.424506	1	0.590303
105A747004	Resistor		0.424506	3	1.557330
105A747014	Resistor		0.424506	26	11.853051
105A747024	Resistor		0.424506	6	2.945996
105A747039	Resistor		0.424506	1	0.590303
105A751014	Resistor		0.424506	1	0.590303
105A768004	Resistor		0.424506	9	4.300582
105A782004	Resistor		0.424506	1	0.590303
105A782024	Resistor		0.424506	47	21.048763



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 6562.011957
MTBF (hrs): 152,392
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1061A10020	Resistor		1.287430	1	2.515815
1100000185	Capacitor		0.188134	1	0.236414
1100000211	Capacitor		0.447535	3	3.883676
1100000213	Capacitor		0.920000	15	13.800000
1100000254	Capacitor		0.188134	15	3.004104
1100000259	Capacitor		8.582867	4	42.056821
1100000331	Capacitor		0.188134	2	0.444101
1100000332	Capacitor		0.188134	250	47.776957
1100000357	Capacitor		0.447535	4	5.388308
1100000870	Capacitor		0.188134	41	8.014552
1100003261	Capacitor		0.790747	5	4.511311
1100003845	Capacitor		3.329462	1	5.448288
1100003964	Capacitor		0.790747	1	1.043865
1100004004	Capacitor		0.188134	57	11.078614
1111610191	Capacitor		0.447535	6	8.033093
1111615210	Capacitor		8.582867	1	12.503620
1112610191	Capacitor		0.447535	1	0.558899
1121610790	Capacitor		0.188134	18	3.585887
1121810060	Capacitor		0.188134	7	1.441331
1122482180	Capacitor		0.188134	1	0.236414
1122747890	Capacitor		0.188134	1	0.236414
1124410091	Capacitor		0.188134	6	1.243969
1124410190	Capacitor		0.188134	6	1.243969
1124418090	Capacitor		0.188134	2	0.444101
1124422091	Capacitor		0.188134	8	1.638054
1124427090	Capacitor		0.188134	4	0.846568
1124447091	Capacitor		0.188134	4	0.846568
1124447190	Capacitor		0.188134	1	0.236414
1124447280	Capacitor		0.920000	1	0.920000
1124510290	Capacitor		0.188134	7	1.441331
1124522190	Capacitor		0.188134	2	0.444101
1124522200	Capacitor		0.188134	2	0.444101
1124533280	Capacitor		0.188134	1	0.236414
1124568180	Capacitor		0.188134	1	0.236414
1124701050	Capacitor		0.188134	1	0.236414
1129501050	Capacitor		0.188134	5	1.045801
1129510060	Capacitor		0.188134	4	0.846568
1129522390	Capacitor		0.188134	2	0.444101
1172618180	Capacitor		2.996516	12	45.450174
1211000170	Inductor		1.914441	1	2.700057
1211002099	Inductor		0.824042	4	3.795394
1211002184	Inductor		1.914441	1	2.700057
1211003240	Inductor		1.914441	1	2.700057
1211100101	Inductor		0.824042	5	4.677459
1212309007	Inductor		0.824042	8	7.286277
1212000055	Inductor		0.824042	3	2.905459
1212000056	Inductor		0.824042	16	14.166053
1212000069	Inductor		0.824042	2	2.003180



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 6562.011957
MTBF (hrs): 152,392
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1212001016	Inductor		0.824042	6	5.545223
1212001157	Inductor		0.824042	2	2.003180
1212301040	Inductor		0.824042	1	1.076930
1212301050	Inductor		0.824042	3	2.905459
1212301070	Inductor		0.824042	10	9.016270
1230000012	Miscellaneous		3.200000	2	18.823774
1231000054	Miscellaneous		3.200000	1	6.989802
1231114350	Miscellaneous		3.200000	1	6.989802
1290000703	Miscellaneous		0.400000	8	3.905130
1290000843	Miscellaneous		0.400000	1	0.654555
1300000088	Semiconductor		2.830043	1	4.388153
1300000473	Semiconductor		1.298902	1	1.795836
1300002546	Semiconductor		2.830043	6	20.725644
1300005440	Semiconductor		2.830043	10	33.113791
1300141480	Semiconductor		6.492452	3	24.409017
1300414800	Semiconductor		1.298902	1	1.795836
1301003440	Semiconductor		2.830043	1	4.388153
1301005440	Semiconductor		1.298902	2	3.295234
1304100640	Optical Device		0.378027	2	0.921548
1310000011	Semiconductor		3.743893	2	9.625513
1310000087	Semiconductor		3.743893	2	9.625513
1310000102	Semiconductor		0.000000	6	0.000000
1310000120	Semiconductor		3.743893	1	5.267161
1310000139	Semiconductor		3.400000	4	17.289037
1310000179	Semiconductor		0.000000	1	0.000000
1310002189	Semiconductor		3.743893	3	13.838919
1310390410	Semiconductor		3.743893	3	13.838919
1311069100	Semiconductor		3.743893	2	9.625513
1311121310	Semiconductor		3.743893	2	9.625513
1315700210	Semiconductor		3.743893	17	69.702093
1400003302	Integrated Circuit		173.091617	1	478.056283
1410000557	Integrated Circuit		1.360000	6	8.160000
1410000675	Integrated Circuit		1.440000	2	2.880000
1410000770	Integrated Circuit		32.290415	1	62.795879
1410001126	Integrated Circuit		6.763496	1	13.153119
1410001252	Integrated Circuit		6.265516	1	8.985956
1410001546	Integrated Circuit		52.856082	1	102.790382
1410007168	Integrated Circuit		4.616652	3	21.407809
1410013559	Integrated Circuit		12.120029	1	17.622511
1410014363	Integrated Circuit		4.335323	1	6.285123
1410014796	Integrated Circuit		5.653686	1	8.051978
1410018571	Integrated Circuit		4.836287	1	7.011393
1410019212	Integrated Circuit		6.290194	1	8.946883
1410019831	Integrated Circuit		4.987811	1	9.699906
1410020282	Integrated Circuit		5.518325	1	10.731608
14S3406300	Integrated Circuit		5.835349	1	11.348132
14S4048500	Integrated Circuit		2.508538	2	8.378988
14S5A08600	Integrated Circuit		3.135353	1	5.291659



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 6562.011957
MTBF (hrs): 152,392
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14S5A12530	Integrated Circuit		2.970094	2	8.814483
1540727201	Resistor		0.677797	3	3.119544
1540782201	Resistor		0.677797	5	4.783907
1651000070	Connection		12.261238	1	19.981096
1651000682	Connection		0.490450	1	0.799244
1652000316	Connection		0.245225	1	0.401283
1652003674	Connection		0.245225	2	0.709835
1652004838	Connection		5.394945	1	9.340838
1653000020	Connection		0.245225	1	0.401283
1653000303	Connection		0.613062	2	1.768691
1653001065	Connection		0.490450	1	0.799244
1653003100	Connection		0.183919	2	0.530607
1653003101	Connection		0.183919	1	0.299716
1653004300	Connection		0.735674	1	1.198866
1653005100	Connection		0.306531	2	0.884346
1653005201	Connection		0.613062	1	0.999055
1653009260	Connection		1.103511	1	1.798299
1653050111	Connection		3.065310	1	4.995274
1653205202	Connection		0.613062	3	2.500717
1653920200	Connection		2.452248	1	3.996219
1654001839	Connection		0.245225	1	0.401283
1654002538	Connection		0.245225	1	0.401283
1654002539	Connection		0.245225	1	0.401283
1654004659	Connection		0.245225	2	0.709835
1654007255	Connection		0.245225	1	0.401283
16542C0200	Connection		0.245225	1	0.401283
1655000453	Connection		0.306531	1	0.499527
1655001153	Connection		0.183919	1	0.299716
1655003010	Connection		0.183919	2	0.530607
1655004011	Connection		0.245225	2	0.707476
1655006020	Connection		0.367837	1	0.599433
1655404090	Connection		5.394945	1	9.340838
1750199011	Miscellaneous		25.000000	1	34.963779
96SD2-512M667NN-TR	Integrated Circuit		25.120341	1	42.251031



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
 Assembly: System
 Ref Des:
 Description:

Failure Rate: 8021.606384
 MTBF (hrs): 124,663
 Temperature: 30
 Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1655000162	Connection		0.245225	1	0.399622
1655001373	Connection		0.980899	1	1.598488
1000000140	Resistor		0.849013	1	1.180607
105A515013	Resistor		0.849013	2	2.163395
105A515423	Resistor		0.849013	1	1.180607
105A516913	Resistor		0.849013	1	1.180607
105A747009	Resistor		0.849013	2	2.163395
1121510490	Capacitor		0.376269	2	0.888203
1304002267	Optical Device		0.756054	2	1.843096
1304440010	Optical Device		0.756054	1	0.991784
1315700210	Semiconductor		7.487787	1	10.534322
14S1039300	Integrated Circuit		5.017076	1	9.756819
1600000031	Switching Device		9.441153	1	16.057835
1960046526N001	(BY VENDOR)		5076.657530	1	5076.657530
1000000153	Resistor		0.849013	6	5.891993
1000000164	Resistor		0.849013	3	3.114661
1000000177	Resistor		0.849013	3	3.114661
1000000202	Resistor		0.849013	2	2.163395
1000000282	Resistor		0.849013	1	1.180607
1000000619	Resistor		0.849013	1	1.180607
1000000648	Resistor		0.849013	1	1.180607
1000000719	Resistor		0.849013	2	2.163395
1000000752	Resistor		0.849013	2	2.163395
1000000757	Resistor		0.849013	1	1.180607
1000000766	Resistor		0.849013	1	1.180607
1000000772	Resistor		0.849013	2	2.163395
1000000861	Resistor		0.849013	1	1.180607
1000000972	Resistor		0.849013	1	1.180607
1000001732	Resistor		0.664762	1	1.291817
1000001912	Resistor		0.664762	2	2.219012
1000001937	Resistor		0.849013	1	1.180607
1000001943	Resistor		0.849013	2	2.163395
1000001949	Resistor		0.849013	3	3.114661
1000001950	Resistor		0.849013	1	1.180607
1000003452	Resistor		0.664762	3	3.080810
1000004854	Resistor		0.664762	2	2.219012
1000005358	Resistor		0.664762	1	1.291817
1000006040	Resistor		0.664762	1	1.291817
105A50103A	Resistor		0.849013	7	6.803938
105A50200B	Resistor		0.849013	1	1.180607
105A50330A	Resistor		0.849013	48	42.969755
105A510004	Resistor		0.849013	11	10.400515
105A510014	Resistor		0.849013	19	17.526162
105A510033	Resistor		0.849013	2	2.163395
105A515004	Resistor		0.849013	6	5.891993
105A515013	Resistor		0.849013	1	1.180607
105A520003	Resistor		0.849013	3	3.114661
105A520014	Resistor		0.849013	2	2.163395



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 8021.606384
MTBF (hrs): 124,663
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
105A520033	Resistor		0.849013	1	1.180607
105A52266B	Resistor		0.849013	1	1.180607
105A523713	Resistor		0.849013	1	1.180607
105A530004	Resistor		0.849013	2	2.163395
105A538310	Resistor		0.849013	1	1.180607
105A549964	Resistor		0.849013	1	1.180607
105A556264	Resistor		0.849013	2	2.163395
105A55900B	Resistor		0.664762	1	1.291817
105A563413	Resistor		0.849013	1	1.180607
105A56650A	Resistor		0.849013	1	1.180607
105A575004	Resistor		0.849013	1	1.180607
105A575033	Resistor		0.664762	1	1.291817
105A700004	Resistor		0.664762	46	34.722031
105A700009	Resistor		0.664762	1	1.291817
105A700109	Resistor		0.849013	4	4.049743
105A701004	Resistor		0.849013	2	2.163395
105A701009	Resistor		0.849013	4	4.049743
105A702704	Resistor		0.849013	1	1.180607
105A70390A	Resistor		0.849013	3	3.114661
105A70470A	Resistor		0.849013	27	24.586200
105A706809	Resistor		0.849013	1	1.180607
105A708233	Resistor		0.849013	1	1.180607
105A710014	Resistor		0.849013	33	29.855777
105A710024	Resistor		0.849013	57	50.809803
105A710029	Resistor		0.849013	5	4.974520
105A710034	Resistor		0.849013	8	7.711511
105A710044	Resistor		0.849013	3	3.114661
105A710059	Resistor		1.997677	1	2.793854
105A715004	Resistor		0.849013	1	1.180607
105A715029	Resistor		0.849013	5	4.974520
105A715039	Resistor		0.849013	1	1.180607
105A720004	Resistor		0.849013	8	7.711511
105A720024	Resistor		0.849013	2	2.163395
105A722014	Resistor		0.849013	7	6.803938
105A722024	Resistor		0.849013	2	2.163395
105A722064	Resistor		0.849013	3	3.114661
105A727014	Resistor		0.849013	1	1.180607
105A727033	Resistor		0.849013	1	1.180607
105A73301A	Resistor		0.849013	2	2.163395
105A739014	Resistor		0.849013	1	1.180607
105A747004	Resistor		0.849013	3	3.114661
105A747014	Resistor		0.849013	26	23.706103
105A747024	Resistor		0.849013	6	5.891993
105A747039	Resistor		0.849013	1	1.180607
105A751014	Resistor		0.849013	1	1.180607
105A768004	Resistor		0.849013	9	8.601164
105A782004	Resistor		0.849013	1	1.180607
105A782024	Resistor		0.849013	47	42.097525



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
 Assembly: System
 Ref Des:
 Description:

Failure Rate: 8021.606384
 MTBF (hrs): 124,663
 Temperature: 30
 Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1061A10020	Resistor		2.574860	1	5.031630
1100000185	Capacitor		0.376269	1	0.472828
1100000211	Capacitor		0.895070	3	7.767353
1100000213	Capacitor		0.920000	15	13.800000
1100000254	Capacitor		0.376269	15	6.008208
1100000259	Capacitor		17.165734	4	84.113641
1100000331	Capacitor		0.376269	2	0.888203
1100000332	Capacitor		0.376269	250	95.553915
1100000357	Capacitor		0.895070	4	10.776616
1100000870	Capacitor		0.376269	41	16.029104
1100003261	Capacitor		1.581495	5	9.022622
1100003845	Capacitor		6.658925	1	10.896576
1100003964	Capacitor		1.581495	1	2.087730
1100004004	Capacitor		0.376269	57	22.157228
1111610191	Capacitor		0.895070	6	16.066187
1111615210	Capacitor		17.165734	1	25.007240
1112610191	Capacitor		0.895070	1	1.117797
1121610790	Capacitor		0.376269	18	7.171773
1121810060	Capacitor		0.376269	7	2.882662
1122482180	Capacitor		0.376269	1	0.472828
1122747890	Capacitor		0.376269	1	0.472828
1124410091	Capacitor		0.376269	6	2.487939
1124410190	Capacitor		0.376269	6	2.487939
1124418090	Capacitor		0.376269	2	0.888203
1124422091	Capacitor		0.376269	8	3.276108
1124427090	Capacitor		0.376269	4	1.693136
1124447091	Capacitor		0.376269	4	1.693136
1124447190	Capacitor		0.376269	1	0.472828
1124447280	Capacitor		0.920000	1	0.920000
1124510290	Capacitor		0.376269	7	2.882662
1124522190	Capacitor		0.376269	2	0.888203
1124522200	Capacitor		0.376269	2	0.888203
1124533280	Capacitor		0.376269	1	0.472828
1124568180	Capacitor		0.376269	1	0.472828
1124701050	Capacitor		0.376269	1	0.472828
1129501050	Capacitor		0.376269	5	2.091602
1129510060	Capacitor		0.376269	4	1.693136
1129522390	Capacitor		0.376269	2	0.888203
1172618180	Capacitor		5.993032	12	90.900348
1211000170	Inductor		3.828882	1	5.400114
1211002099	Inductor		1.648084	4	7.590789
1211002184	Inductor		3.828882	1	5.400114
1211003240	Inductor		3.828882	1	5.400114
1211100101	Inductor		1.648084	5	9.354918
1212309007	Inductor		1.648084	8	14.572555
1212000055	Inductor		1.648084	3	5.810918
1212000056	Inductor		1.648084	16	28.332106
1212000069	Inductor		1.648084	2	4.006359



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 8021.606384
MTBF (hrs): 124,663
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
1212001016	Inductor		1.648084	6	11.090446
1212001157	Inductor		1.648084	2	4.006359
1212301040	Inductor		1.648084	1	2.153859
1212301050	Inductor		1.648084	3	5.810918
1212301070	Inductor		1.648084	10	18.032540
1230000012	Miscellaneous		6.400000	2	37.647547
1231000054	Miscellaneous		6.400000	1	13.979603
1231114350	Miscellaneous		6.400000	1	13.979603
1290000703	Miscellaneous		0.800000	8	7.810260
1290000843	Miscellaneous		0.800000	1	1.309109
1300000088	Semiconductor		5.660086	1	8.776306
1300000473	Semiconductor		2.597804	1	3.591671
1300002546	Semiconductor		5.660086	6	41.451289
1300005440	Semiconductor		5.660086	10	66.227582
1300141480	Semiconductor		12.984903	3	48.818033
1300414800	Semiconductor		2.597804	1	3.591671
1301003440	Semiconductor		5.660086	1	8.776306
1301005440	Semiconductor		2.597804	2	6.590468
1304100640	Optical Device		0.756054	2	1.843096
1310000011	Semiconductor		7.487787	2	19.251025
1310000087	Semiconductor		7.487787	2	19.251025
1310000102	Semiconductor		0.000000	6	0.000000
1310000120	Semiconductor		7.487787	1	10.534322
1310000139	Semiconductor		6.800000	4	34.578073
1310000179	Semiconductor		0.000000	1	0.000000
1310002189	Semiconductor		7.487787	3	27.677838
1310390410	Semiconductor		7.487787	3	27.677838
1311069100	Semiconductor		7.487787	2	19.251025
1311121310	Semiconductor		7.487787	2	19.251025
1315700210	Semiconductor		7.487787	17	139.404187
1400003302	Integrated Circuit		346.183234	1	956.112565
1410000557	Integrated Circuit		1.360000	6	8.160000
1410000675	Integrated Circuit		1.440000	2	2.880000
1410000770	Integrated Circuit		64.580831	1	125.591759
1410001126	Integrated Circuit		13.526992	1	26.306238
1410001252	Integrated Circuit		12.531032	1	17.971911
1410001546	Integrated Circuit		105.712164	1	205.580764
1410007168	Integrated Circuit		9.233304	3	42.815617
1410013559	Integrated Circuit		24.240058	1	35.245023
1410014363	Integrated Circuit		8.670647	1	12.570245
1410014796	Integrated Circuit		11.307372	1	16.103957
1410018571	Integrated Circuit		9.672574	1	14.022786
1410019212	Integrated Circuit		12.580389	1	17.893766
1410019831	Integrated Circuit		9.975622	1	19.399812
1410020282	Integrated Circuit		11.036650	1	21.463215
14S3406300	Integrated Circuit		11.670699	1	22.696264
14S4048500	Integrated Circuit		5.017076	2	16.757976
14S5A08600	Integrated Circuit		6.270706	1	10.583317



Reliability Prediction Summary

File Name: ARK-6320-6M01E.rfp
Assembly: System
Ref Des:
Description:

Failure Rate: 8021.606384
MTBF (hrs): 124,663
Temperature: 30
Environment: GF, GU - Ground Fixed, Uncontrolled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
14S5A12530	Integrated Circuit		5.940189	2	17.628966
1540727201	Resistor		1.355594	3	6.239088
1540782201	Resistor		1.355594	5	9.567815
1651000070	Connection		24.522477	1	39.962192
1651000682	Connection		0.980899	1	1.598488
1652000316	Connection		0.490450	1	0.802565
1652003674	Connection		0.490450	2	1.419670
1652004838	Connection		10.789890	1	18.681676
1653000020	Connection		0.490450	1	0.802565
1653000303	Connection		1.226124	2	3.537382
1653001065	Connection		0.980899	1	1.598488
1653003100	Connection		0.367837	2	1.061215
1653003101	Connection		0.367837	1	0.599433
1653004300	Connection		1.471349	1	2.397732
1653005100	Connection		0.613062	2	1.768691
1653005201	Connection		1.226124	1	1.998110
1653009260	Connection		2.207023	1	3.596597
1653050111	Connection		6.130619	1	9.990548
1653205202	Connection		1.226124	3	5.001433
1653920200	Connection		4.904495	1	7.992438
1654001839	Connection		0.490450	1	0.802565
1654002538	Connection		0.490450	1	0.802565
1654002539	Connection		0.490450	1	0.802565
1654004659	Connection		0.490450	2	1.419670
1654007255	Connection		0.490450	1	0.802565
16542C0200	Connection		0.490450	1	0.802565
1655000453	Connection		0.613062	1	0.999055
1655001153	Connection		0.367837	1	0.599433
1655003010	Connection		0.367837	2	1.061215
1655004011	Connection		0.490450	2	1.414953
1655006020	Connection		0.735674	1	1.198866
1655404090	Connection		10.789890	1	18.681676
1750199011	Miscellaneous		50.000000	1	69.927558
96SD2-512M667NN-TR	Integrated Circuit		50.240683	1	84.502061