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MTBF Reliability Report

1. Product Information

Model : SATA, S-Module III
Model Name : PS3108-S8 BGAX4 TOGGLE

2. Reliability Prediction

Analysis software : [Relex7.3](#)
Analysis Method : [MIL-HDBK-217F](#), Reliability Prediction of Electronic Equipment.

Prediction Result	
Operation Temperature	25C
Failure Rate (FIT)	999.479079
MTBF (hrs)	1,000,521

Part Number	System
Reference Des	
Date	七月 10, 2012
Environment	GB, GC - Ground Benign, Controlled
Temperature	25.00



Description	Top-level assembly
File Name	S-ModuleIII_PS3108-S8
Time	1:37 下午
Failure Rate	999.479097
MTBF	1,000,521

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	System		1.00	999.479097	1,000,521
			1.00	999.479097	1,000,521

Standard Reliability Prediction Report

Part Number
Reference Des

Date 七月 10, 2012

Environment GB, GC - Ground Benign, Controlled

Temperature 25.00



Description

File Name S-ModuleIII_PS3108-S8

Time 1:37 下午

Failure Rate 999.479097

MTBF 1,000,521

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
00-00S0000000	Resistor		0.500000	12.00	6.000000
00-00S0000025	Resistor		0.500000	6.00	3.000000
00-00S0000038	Resistor		0.500000	1.00	0.500000
00-00S0000045	Resistor		0.500000	11.00	5.500000
00-00S0000047	Resistor		0.500000	1.00	0.500000
00-00S0000056	Resistor		0.500000	2.00	1.000000
00-00S0000059	Resistor		0.500000	2.00	1.000000
00-00S0000061	Resistor		0.500000	1.00	0.500000
00-00S0000064	Resistor		0.500000	1.00	0.500000
00-00S0000182	Resistor		0.500000	1.00	0.500000
00-00S0000183	Resistor		0.500000	2.00	1.000000
00-00S0000188	Resistor		0.500000	2.00	1.000000
00-01S0000010	Resistor		0.500000	1.00	0.500000
00-10S0000001	Capacitor		4.919062	3.00	14.757186
00-10S0000003	Capacitor		4.919062	49.00	241.034038
00-10S0000005	Capacitor		4.919062	2.00	9.838124
00-10S0000006	Capacitor		4.919062	8.00	39.352496
00-10S0000011	Capacitor		4.919062	4.00	19.676248
00-10S0000015	Capacitor		4.919062	3.00	14.757186
00-10S0000062	Capacitor		4.919062	1.00	4.919062
00-10S0000054	Capacitor		4.919062	1.00	4.919062
00-10S0000056	Capacitor		4.919062	11.00	54.109682
00-10S0000061	Capacitor		4.919062	3.00	14.757186
NAND FLASH	Integrated Circuit		21.789271	4.00	87.157084
00-20S0000005	Inductor		0.416183	3.00	1.248549
00-30S0000020	Inductor		0.416183	3.00	1.248549
00-40S0000018	Semiconductor		6.000000	1.00	6.000000
00-50S0000002	Miscellaneous		0.500000	1.00	0.500000
01-00S0000059	Miscellaneous		25.000000	1.00	25.000000
01-00S0000086	Semiconductor		100.000000	2.00	200.000000
PCB	Connection		8.000000	1.00	8.000000
06-03S0000065	Integrated Circuit		21.789271	1.00	21.789271
22-08S8AA10I0	Integrated Circuit		67.638458	1.00	67.638458
LOGIC GATE	Integrated Circuit		67.638458	1.00	67.638458
RE-SET IC	Integrated Circuit		67.638458	1.00	67.638458
DIODE	Semiconductor		6.000000	1.00	6.000000