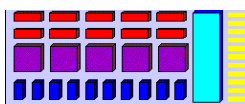


MTBF Reliability Report

SQFlash 630 mSATA

Reliability Prediction	
Operating Temperature	25C
Component Temperature	40C
IC Temperature	45C
Failure Rate (FIT)	696.014972
MTBF (hrs)	1,436,751 hr

Part Number	System
Reference Des	
Date	四月 28, 2014
Environment	GB, GC - Ground Benign, Controlled
Temperature	25.00



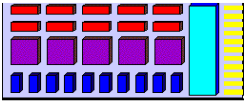
Description	Top-level assembly
File Name	M-SATA_整理Report.RPJ
Time	11:03 上午
Failure Rate	696.014972
MTBF	1,436,751

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
System	System		1.00	696.014972	1,436,751
			1.00	696.014972	1,436,751

Standard Reliability Prediction Report

Part Number
Reference Des
Date
Environment
Temperature

四月 28, 2014
GB, GC - Ground Benign, Controlled
25.00



Description
File Name
Time
Failure Rate
MTBF

M-SATA_整理Report.RPJ
11:03 上午
696.014972
1,436,751

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
30-T0NA0HP033	Integrated Circuit		21.789271	4.00	87.157084
22-09S9BB10J3	Integrated Circuit		82.942156	1.00	82.942156
00-00S0000000	Resistor		0.500000	11.00	5.500000
00-00S0000044	Resistor		0.500000	1.00	0.500000
00-00S0000045	Resistor		0.500000	4.00	2.000000
00-00S0000059	Resistor		0.500000	4.00	2.000000
00-00S0000064	Resistor		0.500000	1.00	0.500000
00-00S0000076	Resistor		0.500000	2.00	1.000000
00-00S0000089	Resistor		0.500000	3.00	1.500000
00-00S0000188	Resistor		0.500000	2.00	1.000000
00-01S0000010	Resistor		0.500000	1.00	0.500000
00-10S0000006	Capacitor		1.000000	18.00	18.000000
00-10S0000007	Capacitor		1.000000	1.00	1.000000
00-10S0000037	Capacitor		1.000000	2.00	2.000000
00-10S0000049	Capacitor		1.000000	2.00	2.000000
00-10S0000050	Capacitor		1.000000	1.00	1.000000
00-10S0000054	Capacitor		1.000000	2.00	2.000000
00-10S0000056	Capacitor		1.000000	8.00	8.000000
00-10S0000061	Capacitor		1.000000	2.00	2.000000
00-10S0000062	Capacitor		1.000000	1.00	1.000000
00-10S0000063	Capacitor		1.000000	2.00	2.000000
00-10S0000066	Capacitor		1.000000	48.00	48.000000
00-10S0000067	Capacitor		1.000000	6.00	6.000000
00-10S0000081	Capacitor		1.000000	1.00	1.000000
00-20S0000005	Inductor		0.500000	2.00	1.000000
00-30S0000020	Inductor		0.500000	2.00	1.000000
00-40S0000018	Semiconductor		6.000000	1.00	6.000000
00-50S0000008	Miscellaneous		0.500000	1.00	0.500000
01-00S0000059	Miscellaneous		25.000000	1.00	25.000000
02-R0S0000001	Semiconductor		60.000000	2.00	120.000000
04-05S0000037	Connection		0.000000	1.00	0.000000
06-00S0000090	Integrated Circuit		84.379324	2.00	168.758648
19-0000000033	Other		0.000000	1.00	0.000000
18-A011000027	Connection		8.000000	1.00	8.000000
40-0100000001	Integrated Circuit		21.789271	4.00	87.157084

Product Information

Model: SQF-SMS 630

Prediction Method

Analysis Software: [Relex7.3](#)

Analysis Method: [Telcordia SR-332, Reliability Prediction of Electronic Equipment.](#)

Parts Coverage

SLC

Product	Advantech PN
SQF MSATA 630 1G SLC (0~70°C)	SQF-SMSS1-1G-S9C
SQF MSATA 630 2G SLC (0~70°C)	SQF-SMSS2-2G-S9C
SQF MSATA 630 4G SLC (0~70°C)	SQF-SMSS4-4G-S9C
SQF MSATA 630 8G SLC (0~70°C)	SQF-SMSS2-8G-S9C
SQF MSATA 630 16G SLC (0~70°C)	SQF-SMSS4-16G-S9C
SQF MSATA 630 32G SLC (0~70°C)	SQF-SMSS4-32G-S9C
SQF MSATA 630 64G SLC (0~70°C)	SQF-SMSS4-64G-S9C
SQF MSATA 630 1G SLC (-40~85°C)	SQF-SMSS1-1G-S9E
SQF MSATA 630 2G SLC (-40~85°C)	SQF-SMSS2-2G-S9E
SQF MSATA 630 4G SLC (-40~85°C)	SQF-SMSS4-4G-S9E
SQF MSATA 630 8G SLC (-40~85°C)	SQF-SMSS2-8G-S9E
SQF MSATA 630 16G SLC (-40~85°C)	SQF-SMSS4-16G-S9E
SQF MSATA 630 32G SLC (-40~85°C)	SQF-SMSS4-32G-S9E
SQF MSATA 630 64G SLC (-40~85°C)	SQF-SMSS4-64G-S9E

Ultra MLC

Product	Advantech PN
SQF MSATA 630 2G UMLC (0~70°C)	SQF-SMSU1-2G-S9C
SQF MSATA 630 4G UMLC (0~70°C)	SQF-SMSU2-4G-S9C
SQF MSATA 630 8G UMLC (0~70°C)	SQF-SMSU4-8G-S9C
SQF MSATA 630 16G UMLC (0~70°C)	SQF-SMSU4-16G-S9C
SQF MSATA 630 32G UMLC (0~70°C)	SQF-SMSU4-32G-S9C
SQF MSATA 630 64G UMLC (0~70°C)	SQF-SMSU4-64G-S9C
SQF MSATA 630 128G UMLC (0~70°C)	SQF-SMSU4-128G-S9C
SQF MSATA 630 2G UMLC (-40~85°C)	SQF-SMSU1-2G-S9E
SQF MSATA 630 4G UMLC (-40~85°C)	SQF-SMSU2-4G-S9E
SQF MSATA 630 8G UMLC (-40~85°C)	SQF-SMSU4-8G-S9E
SQF MSATA 630 16G UMLC (-40~85°C)	SQF-SMSU4-16G-S9E
SQF MSATA 630 32G UMLC (-40~85°C)	SQF-SMSU4-32G-S9E
SQF MSATA 630 64G UMLC (-40~85°C)	SQF-SMSU4-64G-S9E
SQF MSATA 630 128G UMLC (-40~85°C)	SQF-SMSU4-128G-S9E

MLC

Product	Advantech PN
SQF MSATA 630 4G MLC (0~70°C)	SQF-SMSM1-4G-S9C
SQF MSATA 630 8G MLC (0~70°C)	SQF-SMSM1-8G-S9C
SQF MSATA 630 8G MLC (0~70°C)	SQF-SMSM2-8G-S9C
SQF MSATA 630 16G MLC (0~70°C)	SQF-SMSM4-16G-S9C
SQF MSATA 630 32G MLC (0~70°C)	SQF-SMSM4-32G-S9C
SQF MSATA 630 64G MLC (0~70°C)	SQF-SMSM4-64G-S9C
SQF MSATA 630 128G MLC (0~70°C)	SQF-SMSM4-128G-S9C
SQF MSATA 630 256G MLC (0~70°C)	SQF-SMSM4-256G-S9C
SQF MSATA 630 4G MLC (-40~85°C)	SQF-SMSM1-4G-S9E
SQF MSATA 630 8G MLC (-40~85°C)	SQF-SMSM1-8G-S9E
SQF MSATA 630 8G MLC (-40~85°C)	SQF-SMSM2-8G-S9E
SQF MSATA 630 16G MLC (-40~85°C)	SQF-SMSM4-16G-S9E
SQF MSATA 630 32G MLC (-40~85°C)	SQF-SMSM4-32G-S9E
SQF MSATA 630 64G MLC (-40~85°C)	SQF-SMSM4-64G-S9E
SQF MSATA 630 128G MLC (-40~85°C)	SQF-SMSM4-128G-S9E
SQF MSATA 630 256G MLC (-40~85°C)	SQF-SMSM4-256G-S9E