



1/25/2008

RELIABILITY MONITOR REPORT  
FOR

**iButton Package**

**MAXIM Integrated Products**

120 San Gabriel Dr.  
Sunnyvale, CA 94086

This Report was prepared by  
Maxim Reliability Engineering

**Summary:**

The data in the tables that follow was generated as the result of an on-going Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS	PACKAGE		
Batangas Assembly	2	iButton F50 ICs (Pb-Free)	Batangas Assembly	2 Puk Can F50 Insert Mold Bump, Battery w-SMT Crystal (RoHS)
Fastech	2	iButton F50 ICs	Fastech-8"	2 Puk Can F50 Insert Mold Bump, Battery w-SMT Crystal (RoHS)

Note: Due to the nature of the construction on this assembly, there is no operating life data collected.

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between and

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**Assembly Information:**

Package Type: iButton IC's  
Flammability: UL 94-V0  
Date Code Range: 0709 to 0709

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**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0709	DS1990	70 C	1000 HRS	77	0	
				<b>Total:</b>		<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0709	DS1990	-40 TO 85C	500 CYS	77	0	
				<b>Total:</b>		<b>0</b>	

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	0709	DS1990	60C/90% R.H.	1000 HRS	77	0	
				<b>Total:</b>		<b>0</b>	

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**Assembly Information:**

Package Type: iButton IC's (Pb-Free)  
Flammability: UL 94-V0  
Date Code Range: 0716 to 0716

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**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0716	DS1990	85 C	1000 HRS	77	0	
				<b>Total:</b>		<b>0</b>	

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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MOISTURE SOAK	0716	DS1990	85 C/85% R.H.	959	HRS	77	0
						<b>Total:</b>	<b>0</b>

**Assembly Information:**

Package Type: iButton IM (RoHS)  
 Flammability: UL 94-V0  
 Date Code Range: 0703 to 0739

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0703	DS1922L	85 C	500 HRS	77	0	
STORAGE LIFE	0734	DS1955B5	85 C	1000 HRS	77	0	
STORAGE LIFE	0734	DS1955B5	85 C	1000 HRS	77	0	
STORAGE LIFE	0734	DS1955B5	85 C	1000 HRS	77	0	
STORAGE LIFE	0739	DS1955B5	85 C	1000 HRS	77	0	
STORAGE LIFE	0739	DS1955B5	85 C	1000 HRS	77	0	
STORAGE LIFE	0739	DS1955B5	85 C	1000 HRS	77	0	
						<b>Total:</b>	<b>0</b>

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0703	DS1922L	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0734	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0734	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0734	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0736	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0736	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0736	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0739	DS1955B5	-40 TO 85C	1000 CYS	77	0	
						<b>Total:</b>	<b>0</b>

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	0703	DS1922L	85 C/85% R.H.	500 HRS	77	0	
						<b>Total:</b>	<b>0</b>