



4/20/2008

RELIABILITY MONITOR REPORT  
FOR

**uSOP Package**

**MAXIM Integrated Products**

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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		
ATP (Amkor, PI)	10	uSOP (Pb-Free)	Unisem	8 uSOP (Pb-Free)
Unisem	10	uSOP (Pb-Free)	UTL (NSEB) UTAC	8 uSOP (Pb-Free)

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 26180 FITS: 4.4**

The parameters used to calculate this failure rate are as follows:

**Cf: 60% Ea: 0.7 Tu: 25 °C**

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 4/1/2007 and 3/31/2008

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**Assembly Information:**

Package Type: uSOP (Pb-Free)  
Flammability: UL 94-V0  
Date Code Range: 0717 to 0802

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0717	DS2704R	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0718	DS1124	125C, 5.25 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0723	DS1372	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0745	DS1099	125C, 5.5 VOLTS	240 HRS	45	0	
HIGH TEMP OP LIFE	0802	DS3502	125C, 5.5 V (PSA) & 15.0 V (PSB)	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

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**W/E ENDURANCE AND DATA RET'N**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0718	DS1124	150C	1000 HRS	77	0	
WRITE CYCLE STRESS (KCYS)	0802	DS3502	25 C, 5.5 V (PSA) & 15.0 V (PSB)	200 KCYS	77	0	
STORAGE LIFE			150C	1000 HRS	72	0	
WRITE CYCLE STRESS (KCYS)	0802	DS3502	85 C, 5.5 V (PSA) & 15.0 V (PSB)	50 KCYS	77	0	
STORAGE LIFE			150C	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 26180 FITS: 4.4**