



10/8/2010

RELIABILITY MONITOR REPORT
FOR

SSOP 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		
Carsem-S	28	SSOP (Pb-Free)	UNISEM BATAM	28 SSOP (Pb-Free)
UTL (NSEB) UTAC	20	SSOP (Pb-Free)		

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 58910 FITS: 1.9

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 10/1/2009 and 9/30/2010.

Assembly Information:

Package Type: SSOP (Pb-Free)

Date Code Range: 0943 to 1024

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	1019	MAX3172EAI+	135C	1000 HRS	78	0	
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	500 HRS	77	0	
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	500 HRS	45	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0943	MAX1132CAP+	150C	1000 HRS	77	0	
STORAGE LIFE	0943	MAX1132CAP+	150C	1000 HRS	76	0	
STORAGE LIFE	1019	MAX3172EAI+	150C	1000 HRS	80	0	
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000 CYS	76	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1019	MAX3172EAI+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1024	MAX1407CAI+	-65C TO 150C	500 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1024	MAX1407CAI+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1024	MAX1407CAI+	-65C TO 150C	1000 CYS	77	0
					Total:	0

FAILURE RATE: MTTF (YRS): 58910 FITS: 1.9