



10/8/2010

RELIABILITY MONITOR REPORT
FOR

SC70 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-M	3	SC70	Hana AYUTHAYA	5 SC70
Hana AYUTHAYA	6	SC70	UTL (NSEB) UTAC	8 SC70

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 29067 FITS: 3.9

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: SC70
Date Code Range: 0918 to 1013

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1013	MAX4714EXT+T	135C	1000 HRS	50	0	
HIGH TEMP OP LIFE	1013	MAX4714EXT+T	135C	1000 HRS	50	0	
HIGH TEMP OP LIFE	1013	MAX4714EXT+T	135C	1000 HRS	50	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0926	MAX6383XR11D3+	150C	1000 HRS	44	0	
STORAGE LIFE	1013	MAX4714EXT+T	150C	500 HRS	50	0	
STORAGE LIFE	1013	MAX4714EXT+T	150C	1000 HRS	80	0	
STORAGE LIFE	1013	MAX4714EXT+T	150C	1000 HRS	80	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	0941	MAX9618AXA+T	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0941	MAX9618AXA+T	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0941	MAX9618AXA+T	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0951	MAX803MEX+T	-65C TO 150C	1000 CYS	80	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	0951	MAX803MEX+T	-65C TO 150C	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0951	MAX803MEX+T	-65C TO 150C	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1013	MAX4714EXT+T	-65C TO 150C	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1013	MAX4714EXT+T	-65C TO 150C	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1013	MAX4714EXT+T	-65C TO 150C	1000 CYS	80	0
Total:						0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	0918	MAX4715EXK+T	85 C/85% R.H.	1000 HRS	50	0	
MOISTURE SOAK	0918	MAX4715EXK+T	85 C/85% R.H.	1000 HRS	50	0	
MOISTURE SOAK	0918	MAX4715EXK+T	85 C/85% R.H.	1000 HRS	50	0	
MOISTURE SOAK	0951	MAX803MEX+T	85 C/85% R.H.	1000 HRS	48	0	
MOISTURE SOAK	0951	MAX803MEX+T	85 C/85% R.H.	1000 HRS	48	0	
MOISTURE SOAK	0951	MAX803MEX+T	85 C/85% R.H.	1000 HRS	45	0	
MOISTURE SOAK	1013	MAX4714EXT+T	85 C/85% R.H.	1000 HRS	45	0	
MOISTURE SOAK	1013	MAX4714EXT+T	85 C/85% R.H.	1000 HRS	42	0	
MOISTURE SOAK	1013	MAX4714EXT+T	85 C/85% R.H.	24 HRS	45	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 29067 FITS: 3.9