

4/23/2015



RELIABILITY MONITOR REPORT
FOR

CSP Package

MAXIM INTEGRATED

160 RIO ROBLES
SAN JOSE, CA 95134

This Report was prepared by
MAXIM INTEGRATED 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	ASSY SITE	PINS	PACKAGE
DALLAS-MAXFIL	4	uCSP (Pb-Free)	DALLAS-MAXFIL	6	uCSP (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 15503 FITS: 7.4

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 4/1/2014 and 3/31/2015.

Assembly Information:

Package Type: uCSP (Pb-Free)
Date Code Range: 1447 to 1451

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1447	MAX9646EBS+TCK0	135°C	1000 HRS	80	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1447	MAX9646EBS+TCK0	150°C	1000 HRS	80	0	
STORAGE LIFE	1448	MAX9646EWS+T	150°C	500 HRS	80	0	
STORAGE LIFE	1451	MAX9646EBS+TCK0	150°C	500 HRS	80	0	
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1447	MAX9646EBS+TCK0	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1449	MAX9646EBS+TCK0	130C, 85% R.H.	96 HRS	80	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 15503 FITS: 7.4