



5/9/2009

RELIABILITY MONITOR REPORT
FOR

TQFP 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		
ANAM-BUPYANG	48	TQFP (Pb-Free)	Carsem-S	48 TQFP (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 2679 FITS: 42.6

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 1/1/2008 and 12/31/2008

Assembly Information:

Package Type: TQFP (Pb-Free)
Date Code Range: 0727 to 0751

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0727	MAX3674ECM+	135C	288 HRS	48	0	
Total:						0	

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDERABILITY (Pb-Free)	0730	MAX1308ECM+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0730	MAX1308ECM+	JESD22-B102, COND C (245C)		15	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0730	MAX1308ECM+	150C	1000 HRS	45	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	0747	MAX1313ECM+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0751	MAX1312ECM+	-65C TO 150C	1000 CYS	80	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 2679 FITS: 42.6