



10/8/2010

RELIABILITY MONITOR REPORT
FOR

TQFP 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		
ATK (Amkor, K)	48	TQFP (Pb-Free)	ATK (Amkor, K)	64 TQFP (Pb-Free)
ATK (Amkor, K)	80	TQFP (Pb-Free)	ATK (Amkor, K)	144 TQFP (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 26971 FITS: 4.2

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: TQFP (Pb-Free)

Date Code Range: 0851 to 1002

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0851	MAX9972ACCS+	135C	2000 HRS	47	0	
HIGH TEMP OP LIFE	0934	MAXQ1103	125C, 3.6V (PSA) & 2.0V (PSB)	192 HRS	77	0	
HIGH TEMP OP LIFE	0935	MAX9972ACCS+	135C	1000 HRS	27	0	
HIGH TEMP OP LIFE	0947	HS68	135C, 3.6V (PSA) & 1.8V (PSB)	192 HRS	48	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1002	MAX9260GCB/V+	-65C TO 150C	500 CYS	80	0	
Total:						0	

W/E ENDURANCE AND DATA RET'N

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
WRITE CYCLE STRESS (KCYS)	0934	MAXQ1103	85 C, 3.6V (PSA) & 2.0V (PSB)	20 KCYS	77	0	
STORAGE LIFE	0934	MAXQ1103	150C	1000 HRS	76	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 26971 FITS: 4.2