



1/25/2008

RELIABILITY MONITOR REPORT
FOR

PDIP 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		
ATP (Amkor, PI)	20	PDIP (Pb-Free)	UNK	8 PDIP
UNK	18	PDIP	UNK	20 PDIP
UNK	28	PDIP	UNK	48 PDIP

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 208167 FITS: 0.5

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 and

Assembly Information:

Package Type: PDIP
 Flammability: UL 94-V0
 Date Code Range: 0604 to 0622

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0604	ICL7662CP A+	135C, 5.25V	1000 HRS	77	0	
			135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0610	MAX4507EP N	135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0613	MAX1771EP A	135C, 5.25V	1000 HRS	122	0	
			135C, 5.25V	1000 HRS	122	0	
HIGH TEMP OP LIFE	0618	MAX199BC NI+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
HIGH TEMP OP LIFE	0621	MAX1783EP M	135C, 5.25V	1000 HRS	77	0	
			135C, 5.25V	1000 HRS	45	0	
		MAX368CP N+	135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	45	0	
			135C, 5.25V	1000 HRS	77	0	
HIGH TEMP OP LIFE	0622	MAX147BE PP+	135C, 5.25V	1000 HRS	77	0	
Total:						0	

Assembly Information:

Package Type: PDIP (Pb-Free)
Flammability: UL 94-V0
Date Code Range: 0720 to 0720

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0720	DS1844	125C, 5.5 VOLTS	1000 HRS	54	0	
HIGH TEMP OP LIFE	0720	DS1844	125C, 5.5 VOLTS	1000 HRS	54	0	
HIGH TEMP OP LIFE	0720	DS1844	125C, 5.5 VOLTS	1000 HRS	54	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0720	DS1844	150C	1000 HRS	77	0	
STORAGE LIFE	0720	DS1844	150C	1000 HRS	77	0	
STORAGE LIFE	0720	DS1844	150C	1000 HRS	77	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0720	DS1844	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0720	DS1844	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0720	DS1844	-55C TO 125C	1000 CYS	77	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0720	DS1844	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0720	DS1844	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0720	DS1844	85/85, 5.5 VOLTS	1000 HRS	77	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 208167 FITS: 0.5