



4/17/2012

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		
Cirtek	28	PDIP (Pb-Free)	ISPL (ATEC, PI)	40 PDIP (Pb-Free)

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 47283 FITS: 2.4**

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 4/1/2011 and 3/31/2012.

**Assembly Information:**

Package Type: PDIP (Pb-Free)  
Date Code Range: 1103 to 1122

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1103	MAX1480BEPI+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1103	MAX1480BEPI+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1122	MAX1480BCPI+	135C	1000 HRS	77	0	
HIGH TEMP OP LIFE	1122	MAX1480BCPI+	135C	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1103	MAX1480BEPI+	150C	1000 HRS	77	0	
STORAGE LIFE	1103	MAX1480BEPI+	150C	1000 HRS	77	0	
STORAGE LIFE	1108	MAX1480BEPI+	150C	1000 HRS	77	0	
STORAGE LIFE	1122	MAX1480BCPI+	150C	1000 HRS	77	0	
STORAGE LIFE	1122	MAX1480BCPI+	150C	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1103	MAX1480BEPI+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1103	MAX1480BEPI+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX1480BEPI+	-65C TO 150C	1000 CYS	77	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	1122	MAX1480BCPI+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1122	MAX1480BCPI+	-65C TO 150C	1000 CYS	77	0
					<b>Total:</b>	<b>0</b>

**FAILURE RATE: MTTF (YRS): 47283 FITS: 2.4**