

4/16/2014



**RELIABILITY MONITOR REPORT  
FOR**

**X3 Passive Chip Technology (PAC)**

**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 Process Reliability Monitor. The specific products in this process monitor are:

MAXEXP7ETE+
-------------

The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 46508    QUANTITY: 240    FAILS: 0    FITS: 2.5**

The parameters used to calculate this failure rate are as follows:

**Cf: 60%                    Ea: 0.7                    Tu: 25    °C**

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between 4/1/2013 and 3/31/2014 .

**Process Information:**

Process Description:            X3 Passive Chip Technology (PAC)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1324	MAXEXP7ETE+	135°C	1000 HRS	80	0	S23W8Z004B
HIGH TEMP OP LIFE	1325	MAXEXP7ETE+	135°C	1000 HRS	80	0	S23W8Z002A
HIGH TEMP OP LIFE	1330	MAXEXP7ETE+	135°C	1000 HRS	80	0	S23W8Z005B
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1324	MAXEXP7ETE+	150°C	1000 HRS	80	0	S23W8Z004B
STORAGE LIFE	1325	MAXEXP7ETE+	150°C	1000 HRS	80	0	S23W8Z002A
STORAGE LIFE	1330	MAXEXP7ETE+	150°C	1000 HRS	80	0	S23W8Z005B
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1324	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z004B
TEMP CYCLE, 5' RAMP, 10' DWELL	1325	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z002A
TEMP CYCLE, 5' RAMP, 10' DWELL	1330	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z005B
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1324	MAXEXP7ETE+	130C, 85% R.H.	100 HRS	32	0	S23W8Z004B

BIASED MOISTURE	1325	MAXEXP7ETE+	130C, 85% R.H.	100	HRS	80	0	S23W8Z002A
BIASED MOISTURE	1330	MAXEXP7ETE+	130C, 85% R.H.	100	HRS	32	0	S23W8Z005B
						<b>Total:</b>	<b>0</b>	
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 46508</b>	<b>QUANTITY: 240</b>				<b>FAILS: 0</b>	<b>FITS: 2.5</b>	