



7/19/2012

**RELIABILITY MONITOR REPORT
FOR**

X3 Passive Chip Technology (PAC)

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

MAXEXP7ETE+	MAXEXPETE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 93015 QUANTITY: 480 FAILS: 0 FITS: 1.2

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 7/1/2011 and 6/30/2012 .

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	1108	MAXEXPETE+	135C	1000 HRS	80	0	SX9ZBZ003Q2
HIGH TEMP OP LIFE	1108	MAXEXPETE+	135C	1000 HRS	80	0	SX9ZBZ004Q3
HIGH TEMP OP LIFE	1108	MAXEXPETE+	135C	1000 HRS	80	0	SX9ZBZ002Q1
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0	S23W8Z061A#
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0	S23W8Z062A#
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0	S23W8Z076A#
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1127	MAXEXP7ETE+	150C	500 HRS	80	0	S23W8Z061A#
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	S23W8061A#
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	S23W8Z062A#
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	S23W8Z076A#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z061A#
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z062A#
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0	S23W8Z076A#
Total:						0	

FAILURE RATE: **MTTF (YRS): 93015** **QUANTITY: 480** **FAILS: 0** **FITS: 1.2**