



5/9/2009

**RELIABILITY MONITOR REPORT
FOR**

X3 0.8 μ m Silicon Gate CMOS

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:

MAX3301EETJ+	MAX7500MUA	MAX7500MUA+
--------------	------------	-------------

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 22324** **FITS: 5.1**

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 and

Process Information:

Process Description: X3 0.8µm Silicon Gate CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0733	MAX3301EETJ+	135C	1000 HRS	48	0	SQW0CA005B#
HIGH TEMP OP LIFE	0741	MAX7500MUA	135C	700 HRS	100	0	SRT0CQ003#
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0724	MAX7500MUA+	150C	1000 HRS	72	0	SRT0CQ003F#
STORAGE LIFE	0733	MAX3301EETJ+	150C	500 HRS	80	0	SQW0CA005B#
STORAGE LIFE	0735	MAX7500MUA+	150C	500 HRS	80	0	SRT0CA006O#
STORAGE LIFE	0735	MAX7500MUA+	150C	1000 HRS	80	0	SRT0CA006C#
STORAGE LIFE	0741	MAX7500MUA+	150C	1000 HRS	48	0	SRT0CQ003J#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0724	MAX7500MUA+	-65C TO 150C	500 CYS	76	0	SRT0CQ003F#
TEMP CYCLE, 5' RAMP, 10' DWELL	0733	MAX3301EETJ+	-65C TO 150C	1000 CYS	80	0	SQW0CA005B#
TEMP CYCLE, 5' RAMP, 10' DWELL	0735	MAX7500MUA+	-65C TO 150C	500 CYS	80	0	SRT0CA006O#
TEMP CYCLE, 5' RAMP, 10' DWELL	0741	MAX7500MUA+	-65C TO 150C	500 CYS	77	0	SRT0CQ003J#
Total:						0	

FAILURE RATE: **MTTF (YRS): 22324** **FITS: 5.1**