



10/8/10

**RELIABILITY MONITOR REPORT
FOR**

Epson 0.6 μ m Silicon Gate CMOS (C6Y)

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:

MAX1231BCEG	MAX1407CAI+	MAX9776ETJ+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 22680 QUANTITY: 247 FAILS: 0 FITS: 5.0

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 10/1/2009 and 9/30/2010 .

Process Information:

Process Description: Epson 0.6µm Silicon Gate CMOS (C6Y)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0939	MAX9776ETJ+	135C	138 HRS	80	0	ET61JA275BA
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	500 HRS	77	0	E001KQ002Q1
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	1000 HRS	45	0	E001KQ002Q2
HIGH TEMP OP LIFE	1024	MAX1407CAI+	135C	500 HRS	45	0	E001KQ002Q3
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	E001KQ002Q1
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	E001KQ002Q2
STORAGE LIFE	1024	MAX1407CAI+	150C	1000 HRS	77	0	E001KQ002Q3
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1009	MAX1231BCEG+	-65C TO 150C	1000 CYS	78	0	EF4ZAQ001Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1009	MAX1231BCEG+	-65C TO 150C	1000 CYS	78	0	EF4ZAQ001Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1009	MAX1231BCEG+	-65C TO 150C	1000 CYS	78	0	EF4ZAQ001Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1024	MAX1407CAI+	-65C TO 150C	500 CYS	77	0	E001KQ002Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1024	MAX1407CAI+	-65C TO 150C	1000 CYS	77	0	E001KQ002Q2

TEMP CYCLE, 5' RAMP, 1024 MAX1407CAI+ -65C TO 150C 1000 CYS 77 0 E001KQ002Q3
10' DWELL

Total: 0

FAILURE RATE: **MTTF (YRS): 22680** **QUANTITY: 247** **FAILS: 0** **FITS: 5.0**