



10/8/10

**RELIABILITY MONITOR REPORT
FOR**

MFN 1.2 μ m Silicon Gate CMOS (S12)

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:

MAX1132CAP+	MAX4372FESA+	MAX4372HESA	MAX6029EUK21	MAX6029EUK41
MAX6029EUK50				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 80419 QUANTITY: 439 FAILS: 0 FITS: 1.4

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: MFN 1.2µm Silicon Gate CMOS (S12)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0723	MAX6029EUK21+T	135C	1000 HRS	45	0	N4Y0BA009D
HIGH TEMP OP LIFE	0925	MAX6029EUK41+T	135C	1000 HRS	45	0	N4Y3BA027CB
HIGH TEMP OP LIFE	0925	MAX6029EUK50+T	135C	1000 HRS	45	0	N4Y4BA024GC
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	N5LAEA008Q1
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	N5LAEA008Q2
HIGH TEMP OP LIFE	0943	MAX1132CAP+	135C	1000 HRS	48	0	N5LAEA008Q3
HIGH TEMP OP LIFE	0950	MAX4372HESA+	135C	1000 HRS	80	0	N2ACD2166BA
HIGH TEMP OP LIFE	1018	MAX4372FESA+	135C	1000 HRS	80	0	N2ABD2169CA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0723	MAX6029EUK21+T	150C	1000 HRS	77	0	N4Y0BA009D
STORAGE LIFE	0925	MAX6029EUK41+T	150C	1000 HRS	77	0	N4Y3BA027CB
STORAGE LIFE	0925	MAX6029EUK50+T	150C	1000 HRS	77	0	N4Y4BA024GC
STORAGE LIFE	0943	MAX1132CAP+	150C	1000 HRS	77	0	N5LAEA008Q2
STORAGE LIFE	0943	MAX1132CAP+	150C	1000 HRS	76	0	N5LAEA008Q3
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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TEMP CYCLE, 5' RAMP, 10' DWELL	0723	MAX6029EUK21+T	-65C TO 150C	500	CYS	77	0	N4Y0BA009D
TEMP CYCLE, 5' RAMP, 10' DWELL	0925	MAX6029EUK50+T	-65C TO 150C	500	CYS	77	0	N4Y3BA024CB
TEMP CYCLE, 5' RAMP, 10' DWELL	0925	MAX6029EUK41+T	-65C TO 150C	1000	CYS	77	0	N4Y3BA027CB
TEMP CYCLE, 5' RAMP, 10' DWELL	0925	MAX6029EUK50+T	-65C TO 150C	71	CYS	77	0	N4Y4BA024GC
TEMP CYCLE, 5' RAMP, 10' DWELL	0925	MAX6029EUK50+T	-65C TO 150C	500	CYS	77	0	N4Y3BA024G#
TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000	CYS	77	0	N5LAEA008Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000	CYS	77	0	N5LAEA008Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	0943	MAX1132CAP+	-65C TO 150C	1000	CYS	76	0	N5LAEA008Q3

Total: **0**

FAILURE RATE: MTTF (YRS): 80419 QUANTITY: 439 FAILS: 0 FITS: 1.4