



10/8/10

**RELIABILITY MONITOR REPORT  
FOR**

**X3 0.6 $\mu$ m Silicon Gate CMOS (C6)**

**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:

MAX4791EUK/V	MAX4915AEUK	MAX4917AEUK	MAX5048BAUT
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 5697      QUANTITY: 97      FAILS: 0      FITS 20.0**

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: X3 0.6µm Silicon Gate CMOS (C6)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0845	MAX4917AEUK+	135C	138 HRS	16	0	SK89CA016A#
HIGH TEMP OP LIFE	0905	MAX4915AEUK+	135C	138 HRS	16	0	SK87CA015A#
HIGH TEMP OP LIFE	0929	MAX4791EUK/V+	135C	138 HRS	20	0	SKG2GQ001A#
HIGH TEMP OP LIFE	1027	MAX5048BAUT#G16	135C	500 HRS	45	0	SH71HA041CB
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1026	MAX5048BAUT#G16	150C	500 HRS	77	0	SH71HA042FA
STORAGE LIFE	1027	MAX5048BAUT#G16	150C	500 HRS	77	0	SH71HA041CB
STORAGE LIFE	1029	MAX5048BAUT#G16	150C	500 HRS	20	0	SH71HA045CB
<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	1027	MAX5048BAUT#G16	-65C TO 150C	650 CYS	77	0	SH71HA041CB
TEMP CYCLE, 5' RAMP, 10' DWELL	1029	MAX5048BAUT#G16	-65C TO 150C	500 CYS	77	0	SH71HA045CB
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 5697      QUANTITY: 97      FAILS: 0      FITS: 20.0**