



5/9/2009

RELIABILITY MONITOR REPORT  
FOR

**Epson 0.6 $\mu$ m Silicon Gate CMOS**

**MAXIM Integrated Products**

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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:

MAX5742EUB+	MAX9775ERX+	MAX9776ETJ+	MAX9789AETJ+	MAX9789AETL+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:**                      **MTTF (YRS): 29283**                      **FITS: 3.9**

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 4/1/2008 and 3/31/2009 .

**Process Information:**

Process Description:                      Epson 0.6µm Silicon Gate CMOS

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0752	MAX9776ETJ+	135C	1000 HRS	48	0	ET61FQ001BA
HIGH TEMP OP LIFE	0806	MAX9789AETJ+	135C	1000 HRS	77	0	EZ00HQ002D
HIGH TEMP OP LIFE	0825	MAX9789AETL+	135C	192 HRS	43	0	EZ00LA106AQ
HIGH TEMP OP LIFE	0831	MAX9776ETJ+	135C	192 HRS	48	0	ET61FQ001AQ
HIGH TEMP OP LIFE	0850	MAX5742EUB+	135C	192 HRS	45	0	E5Q0EQ001BQ
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0806	MAX9789AETJ+	150C	1000 HRS	80	0	EZ00HQ002D
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX9775ERX+T	-40C TO +125C	1000 CYS	77	0	ET60JA095AA
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX9775ERX+T	-40C TO +125C	1000 CYS	77	0	ET60JA095AB
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX9775ERX+T	-40C TO +125C	1000 CYS	77	0	ET60JA095AC
<b>Total:</b>						<b>0</b>	

**FAILURE RATE:**                      **MTTF (YRS): 29283**                      **FITS: 3.9**